

BUYLOG SECTION 9

Disconnect Switches and Operating Mechanisms

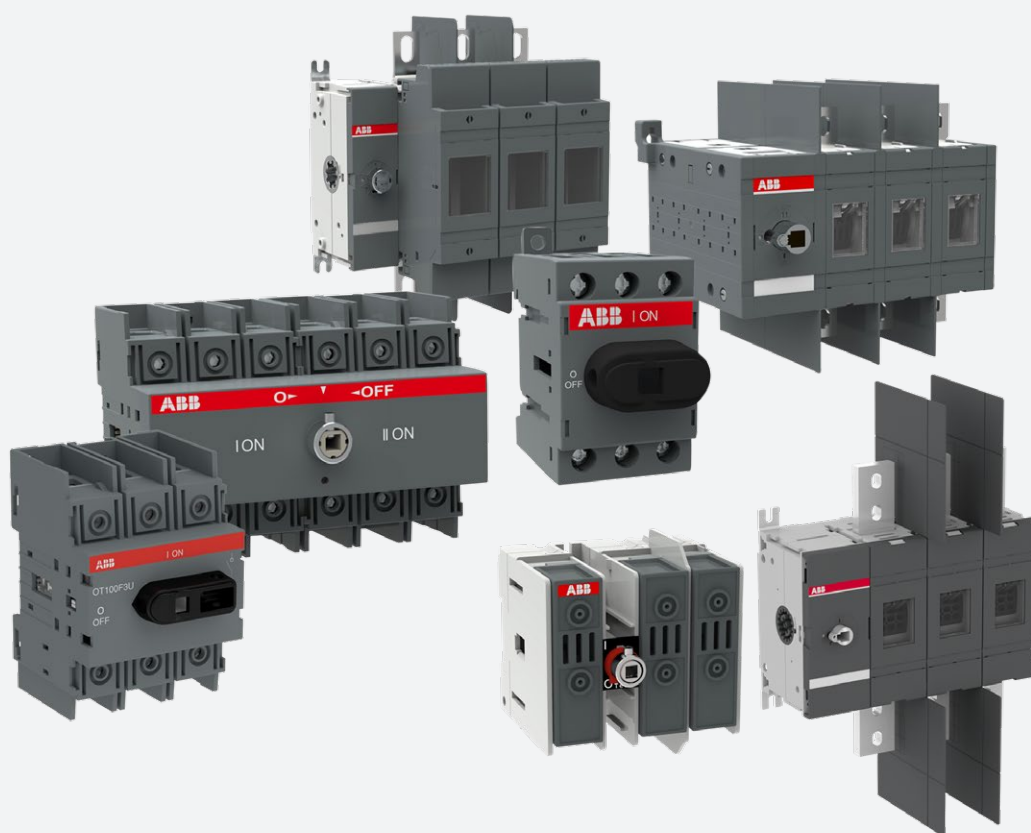




Table of contents

	Fusible disconnect switches (OS)		Enclosed Rotary Switches
9-4	Product range	9-81	Product overview
9-5	Type designation keys	9-82	Product range
9-7	Technical data	9-83	Technical data
9-8	Ordering information		
9-8	CC and J-type, 30...60A		DC disconnect switches (OTDC)
9-9	J-type, 100...200A	9-92	OTDC XS-Series technical data
9-10	J-type, 400...600A	9-93	OTDC XS-Series ordering information
9-11	L-type, 800...1200A	9-94	OTDC XS-Series circuits
9-12	Selection overview – accessory guide for OS60G	9-95	OTDC S-Series overview
9-13	Selection overview – accessory guide for OS100...1200	9-96	OTDC S1.0-Series technical data
9-14	Accessories ordering information	9-97	OTDC S2.0-Series technical data
9-14	Handles	9-99	OTDC S1.0-Series ordering information
9-18	Shafts	9-100	OTDC S2.0-Series ordering information
9-19	Auxiliary contacts	9-102	OTDC S1.0 and S2.0-Series circuits
9-23	Fourth poles	9-103	OTDC M-Series overview
9-24	Neutral links, solid links, and phase barriers	9-104	OTDC M-Series technical data
9-25	Terminal shrouds	9-106	OTDC M-Series ordering information
9-27	Terminal clamp sets	9-108	OTDC M-Series circuits
9-28	Terminal lugs	9-109	Accessory guide for XS-Series
9-29	Conversion kits	9-110	Accessory guide for S and M-Series
9-31	Electronic fuse monitor	9-111	Accessory ordering information
9-32	Cam attachment and interlocks		HPC™ new generation high-pressure contact switch
9-33	Coils and mounting accessories	9-122	Product introduction
9-34	Spare parts kits	9-123	Nomenclature
9-35	Flange handles	9-128	Application information – outlines and dimensions
	Non-fusible disconnect switches (OT)	9-130	Accessories
9-37	Product range		
9-38	Type designation keys		
9-40	Technical data		
9-44	Selection overview – accessory guide for OT16F...100F		
9-46	Selection overview – accessory guide for OT160G		
9-47	Selection overview – accessory guide for OT200...2000		
9-48	Accessories ordering information		
9-53	Handle knobs		
9-54	Handles		
9-61	Shafts and shaft accessories		
9-64	Auxiliary contacts		
9-66	Fourth poles		
9-67	Neutrals		
9-68	Earth terminals and phase separators		
9-69	Terminal shrouds		
9-71	Terminal clamps		
9-72	Terminal lugs		
9-73	Conversion kits and accessories		
9-76	Locking accessories		
9-77	Mechanical and electrical interlocks		
9-79	Flange handles		

Fusible disconnect switches 30...1200A

Product range



Switch size [A]	30		60	100	200	400	600	800	1200
UL98 Switch File #E101914	OS30FACC	OS30FAJ	OS60GJ	OS100GJ	OS200J	OS400J	OS600J	OS800L	OS1200L
Fuse Class	CC	J	J	J	J	J	J	L	L
240V HP	7.5	7.5	15	30	60	125	200	250	-
480V HP	15	15	30	60	125	250	400	500	-
600V HP	20	20	50	75	150	350	500	500	-

Fusible disconnect switches 30A (OS Mini)

Type designation key

Type codes

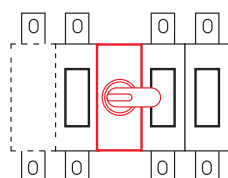
Understanding the type code keys below will help you quickly identify the correct product for your needs. The simple naming system allows you to see the products type, Ampere rating, standard classification and number of poles, all in one glance.

OS	30F	AJ	_	22	_	F	_
ABB brand OS = ABB switch fuse/fusible switch		Switch size The second part in the code indicates the ampere rating [A] of the product: 30A, followed by the generation letter: F		Included handle Blank = No handle included, OSFAJ_ and OS30FACC_ 22 = Pistol handle and shaft included with OSFAJ_ and OS30FACC_		Fourth pole/neutral terminal F = Fused switched neutral Blank = Terminal not included	
Fuse type AJ = J ACC = CC		Switch operation Blank = Front operation S = Side operation		Fuse size Blank = Fuses not included			
Number of poles and placing of the operating mechanism 12 = 3 poles, operating mechanism between the poles 22 = 4 poles, operating mechanism between the poles 30 = 3 poles, operating mechanism at the right end of the switch							

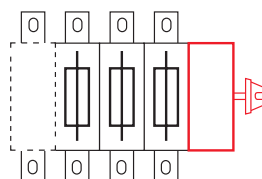
Pole configuration table

The various placing options of the operating mechanism in relation to the 3 or 4 poles is illustrated below. The operating mechanism may be placed at the end of the switch or between poles.

Between the poles OS_12 or 22:



Side operated types OS_30 or 40 / OS_03 or 04:



Fusible disconnect switches 60...1200A

Type designation key

Type codes

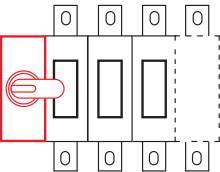
Understanding the type code keys below will help you quickly identify the correct product for your needs. The simple naming system allows you to see the products type, Ampere rating, standard classification and number of poles, all in one glance.

OS	100G	J	_	04	N2	_	P
ABB brand OS = ABB switch fuse/fusible switch				Included handle Blank = No handle included P = Pistol handle and shaft K = Direct mount handle			
Switch size The second part in the code indicates the ampere rating [A] of the product: 60-1200A, followed by the generation letter: G				Terminals for special connection (only IEC) Blank = No special connection			
Fuse type J = J L = L				Fourth pole/neutral terminal Blank = Neutral terminal not included N1 = Non-fused switched neutral on the left side N2 = Non-fused switched neutral on the right side N3 = Includes a detachable neutral link integrated into the mechanism F = Fused switched neutral			
Switch operation Blank = Front operation S = Side operation							
Number of poles and placing of the operating mechanism 03 = 3 poles, operating mechanism at the left end of the switch 04 = 4 poles, operating mechanism between the poles 12 = 3 poles, operating mechanism between the poles 22 = 4 poles, operating mechanism between the poles 30 = 3 poles, operating mechanism at the right end of the switch 40 = 4 poles, operating mechanism at the right end of the switch							

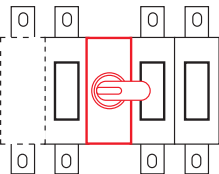
Pole configuration table

The various placing options of the operating mechanism in relation to the 3 or 4 poles is illustrated below. The operating mechanism may be placed at the end of the switch or between poles.

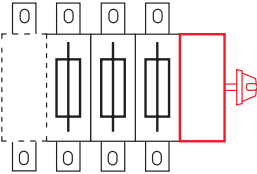
At the end of the switch fuse OS_03 or 04:



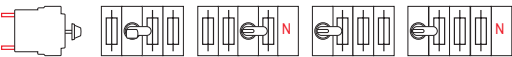
Between the poles OS_12 or 22:



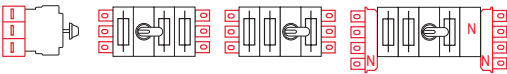
Side operated types OS_30 or 40 / OS_03 or 04:



BB-types:



LR-types:



Fusible disconnect switches, UL/CSA

Technical data for OS30...1200

OS30...1200

	OS Mini 30	OS_60G	OS_100G	OS_200
Approvals ¹	-	UL98, IEC 2 pole	UL98, IEC 2 pole	UL98, IEC 2 pole
	UL98, IEC 3 pole	UL98, IEC 3 pole	UL98, IEC 3 pole	UL98, IEC 3 pole
	UL98, IEC 4 pole	UL98, IEC 4 pole	UL98, IEC 4 pole	UL98, IEC 4 pole

Technical data according to UL/CSA

General purpose amp rating	pf= 0.7...0.8	up to 40°C	30 A	60 A	100 A	200 A
Max. operating voltage			600 VAC	600 VAC	600 VAC	600 VAC
			250 VDC	250 VDC	250 VDC	250 VDC
Max. horsepower rating/ motor FLA current	pf= 0.4...0.5 Three phase	240 V	7.5 HP/22.0 A	15 HP/42.0 A	30 HP/80.0 A	60 HP/154.0 A
		480 V	15 HP/21.0 A	30 HP/40.0 A	60 HP/77.0 A	125 HP/156.0 A
		600 V	20 HP/22.0 A	50 HP/52.0 A	75 HP/77.0 A	150 HP/144.0 A
	Single phase	120 V	2 HP/24.0 A			
		240 V	3 HP/17.0 A			
Short circuit rating with fuse, 3 and 4-pole types	Short circuit rating at 600VAC		200 kA	200 kA	200 kA	200 kA
Fuse	Max. fuse rating		30 A	60 A	100 A	200 A
	Type of fuse		J/CC	J	J	J
Min. electrical endurance	pf= 0.75...0.8	operation cycles	6,000	6,000	6,000	6,000
Terminal lug kits			Integral	Integral	OZXA-24	OZXA-200
Wire range			#18-8 AWG	#14-4 AWG	#14-2/0 AWG	#4-300 MCM
Torque	Wire tightening		17 lb.in	30/35 lb.in ²	120 lb.in	200 lb.in
	Lug mounting		N/A	N/A	50 lb.in	72 lb.in

OS400...1200

	OS400	OS600	OS800	OS1200
Approvals ¹	UL98, IEC 2 pole	UL98, IEC 2 pole	UL98, IEC 2 pole	UL98, IEC 2 pole
	UL98, IEC 3 pole	UL98, IEC 3 pole	UL98, IEC 3 pole	UL98, IEC 3 pole
	UL98, IEC 4 pole	UL98, IEC 4 pole	UL98, IEC 4 pole	UL98, IEC 4 pole

Technical data according to UL/CSA

General purpose amp rating	pf= 0.7...0.8	up to 40°C	400 A	600 A	800 A	1200 A
Max. operating voltage			600 VAC	600 VAC	600 VAC	600 VAC
			250 VDC	250 VDC	250 VDC	250 VDC
Max. horsepower rating/ motor FLA current	pf= 0.4...0.5 Three phase	240 V	125 HP/312.0 A	200 HP/480.0 A	250 HP/602.0 A	
		480 V	250 HP/302.0 A	400 HP/477.0 A	500 HP/590.0 A	
		600 V	350 HP/336.0 A	500 HP/472.0 A	500 HP/472.0 A	
	Single phase	120 V				
		240 V				
Short circuit rating with fuse, 3 and 4-pole types	Short circuit rating at 600VAC		200 kA	200 kA	200 kA	200 kA
Fuse	Max. fuse rating		400 A	600 A	800 A	1200 A
	Type of fuse		J	J	L	L
Min. electrical endurance	pf= 0.75...0.8	operation cycles	1,000	1,000	500	500
Terminal lug kits			OZXA-400	OZXA-800	OZXA-800	OZXA-1200
Wire range			#2-600MCM	(2)#2-600MCM	(2)#2-600MCM	(4)#2-600MCM
Torque	Wire tightening		375 lb.in	500 lb.in	500 lb.in	500 lb.in
	Lug mounting		240 lb.in	480 lb.in	480 lb.in	480 lb.in

¹ UL listed disconnects are also listed under CSA requirements.

² 30 lb.in with cable size #14-10, 35 lb.in with cable size #8-4.

Fusible disconnect switches, UL/CSA

Ordering information for CC and J types, 30...60A



OS30FAJ12



OS30FAJ22F



OS30FAJS30



OS60GJ02



OS60GJ03



OS60GJS30

Fusible disconnect switches, CC and J types, 30A

- Protected IP20 tunnel terminals
- AWG 18 - 8 cable size
- Mechanism in the middle of the switch (except for side operated)

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
30	CC, 30A	3	OS30FACC12	1SCA108813R1001
30	CC, 30A	4	OS30FACC22F	1SCA108819R1001
30	J, 30A	3	OS30FAJ12	1SCA108824R1001
30	J, 30A	4	OS30FAJ22F	1SCA108829R1001

Side operated

Shaft and handle not included				
30	CC, 30A	3	OS30FACCS30	1SCA108822R1001
30	J, 30A	3	OS30FAJS30	1SCA108834R1001

Fusible disconnect switches, J type, 60A

- Protected IP20 tunnel terminals
- AWG 14 - 4 cable size
- Mechanism at the end of the switch

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
60	J, 60A	2	OS60GJ02	1SCA121900R1001
60	J, 60A	3	OS60GJ12	1SCA115448R1001
60	J, 60A	3	OS60GJ03	1SCA115866R1001
60	J, 60A	4	OS60GJ04F	1SCA115445R1001

Side operated

Shaft and handle not included				
60	J, 60A	3	OS60GJS30	1SCA116051R1001
60	J, 60A	4	OS60GJS40F	1SCA115970R1001

Fusible disconnect switches, UL/CSA

Ordering information for J-type, 100...200A



OS100GJ02



OS100GJ03



OS100GJS30



OS200J02



OS200J03



OS200JS30

Fusible disconnect switches, J-type, 100A

- Includes terminal bolt set M8X25
- Mechanism at the end of the switch

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
100	J, 100A	2	OS100GJ02	1SCA121932R1001
100	J, 100A	3	OS100GJ03	1SCA115436R1001
100	J, 100A	4	OS100GJ04F	1SCA115438R1001

Side operated

Shaft and handle not included				
100	J, 100A	3	OS100GJS30	1SCA115971R1001

Fusible disconnect switches, J-type, 200A

- Includes terminal bolt set M8X25
- Mechanism at the end of the switch

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
200	J, 200A	2	OS200J02	1SCA107591R1001
200	J, 200A	3	OS200J12	1SCA022758R7990
200	J, 200A	3	OS200J03	1SCA022733R6130
200	J, 200A	4	OS200J04F	1SCA022758R9340

Side operated

Shaft and handle not included				
200	J, 200A	3	OS200JS30	1SCA022871R3910

Fusible disconnect switches, UL/CSA

Ordering information for J-type, 400...600A



OS400J02



OS400J03



OS400JS30



OS600J02



OS600J03



OS600JS30

Fusible disconnect switches, J-type, 400A

- Includes terminal bolt set M10X40
- Mechanism at the end of the switch

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
400	J, 400A	2	OS400J02	1SCA107592R1001
400	J, 400A	3	OS400J03	1SCA022755R0810
400	J, 400A	4	OS400J04F	1SCA022755R3660

Side operated

Shaft and handle not included				
400	J, 400A	3	OS400JS30	1SCA022871R4980
400	J, 400A	4	OS400JS40F	1SCA022871R5100

Fusible disconnect switches, J-type, 600A

- Includes terminal bolt set M8X25
- Mechanism at the end of the switch

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
600	J, 600A	2	OS600J02	1SCA107593R1001
600	J, 600A	3	OS600J03	1SCA022825R8610
600	J, 600A	4	OS600J04F	1SCA022839R3900

Side operated

Shaft and handle not included				
600	J, 600A	3	OS600JS30	1SCA108111R1001
600	J, 600A	4	OS600JS40F	1SCA108113R1001

Fusible disconnect switches, UL/CSA

Ordering information for L-type, 800...1200A



OS800L02



OS800L03



OS1200L02



OS1200L03

Fusible disconnect switches, L-type, 800A

- Includes terminal bolt set M10X40
- Mechanism at the end of the switch

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
800	L, 800A	2	OS800L02	1SCA116920R1001
800	L, 800A	3	OS800L03	1SCA022825R9760
800	L, 800A	4	OS800L04F	1SCA022839R5350

Fusible disconnect switches, L-type, 1200A

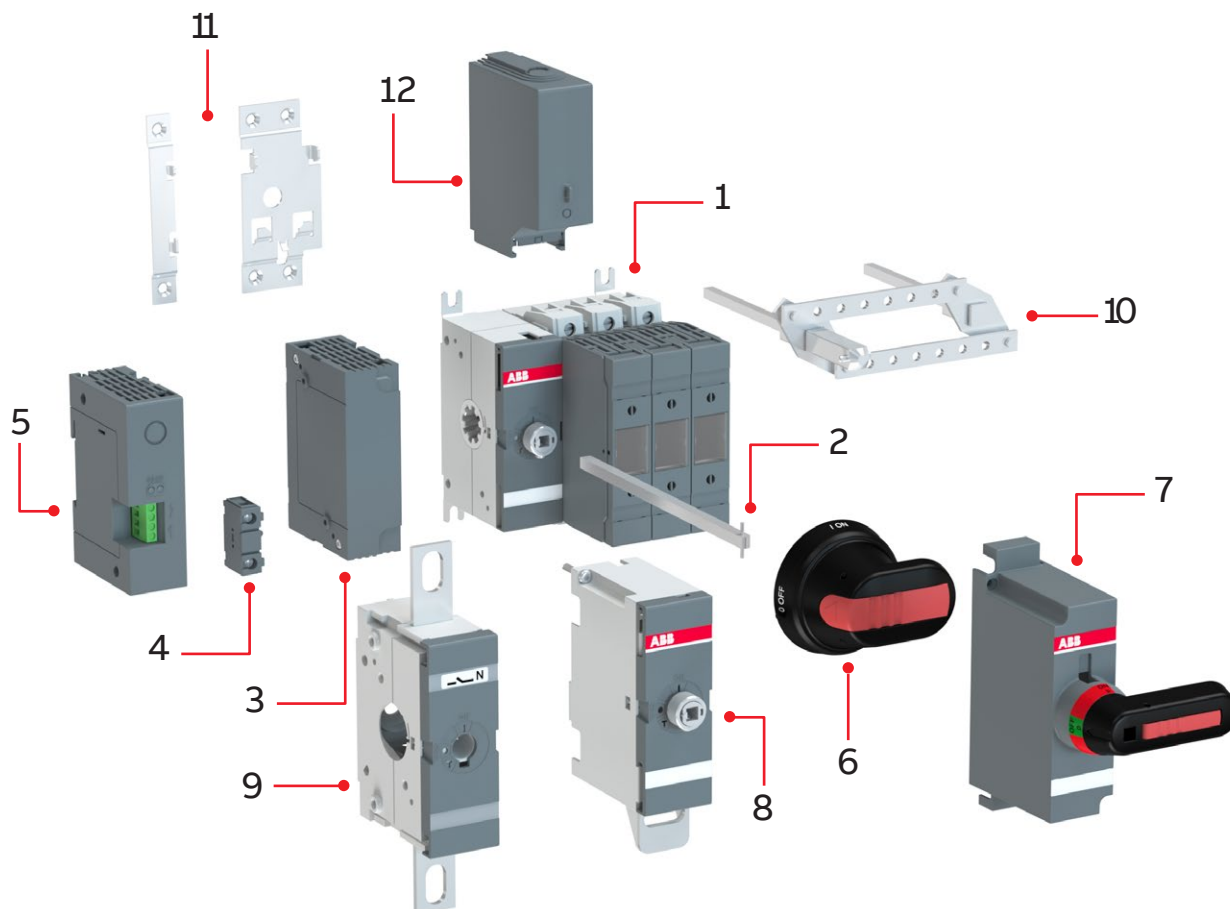
- Includes terminal bolt set M10X50
- Mechanism at the end of the switch

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
1200	L, 1200A	2	OS1200L02	1SCA116924R1001
1200	L, 1200A	3	OS1200L03	1SCA105467R1001
1200	L, 1200A	4	OS1200L04F	1SCA105465R1001

Fusible disconnect switch 60A

Selection overview



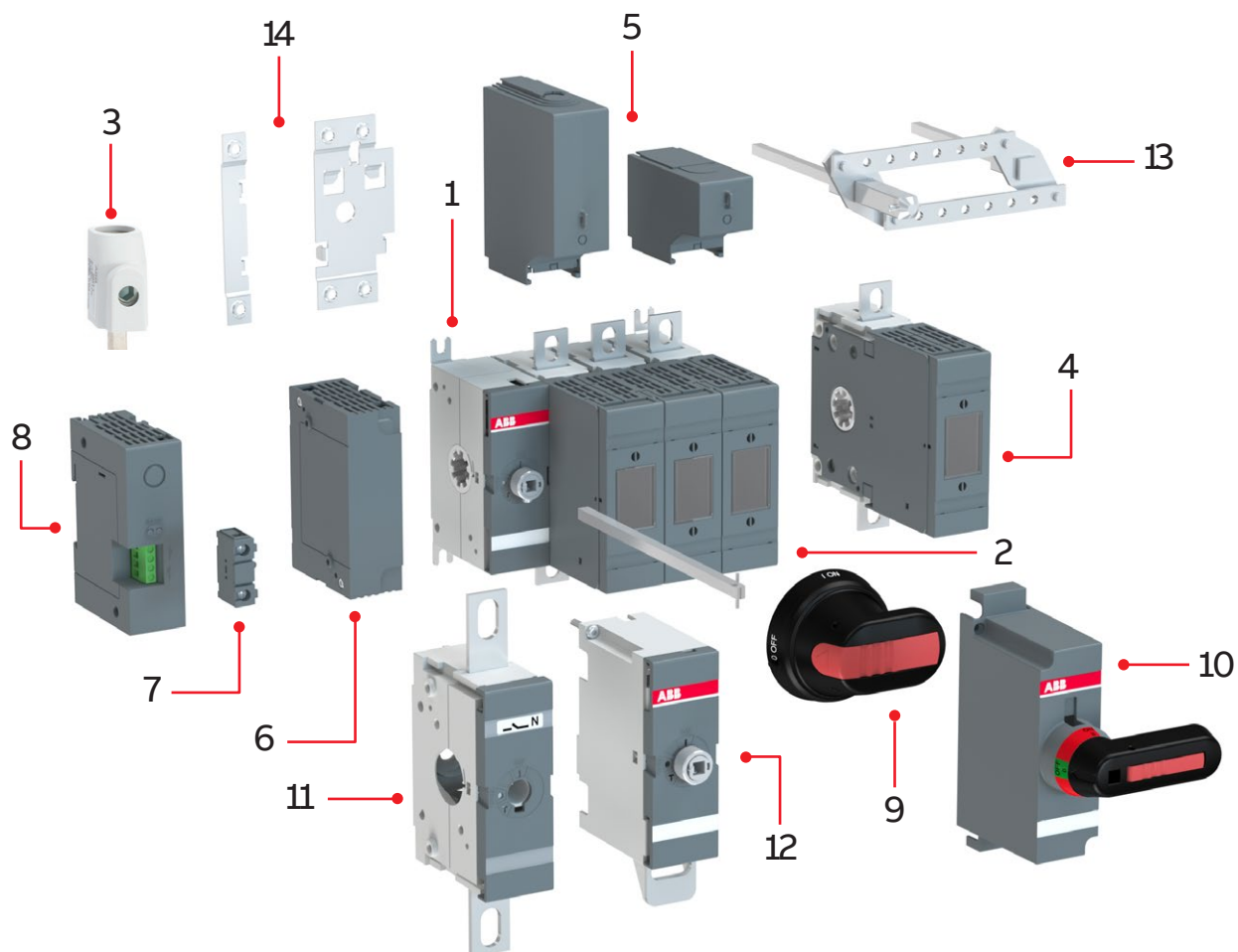
Accessory guide for OS60G

- | | |
|----------------------------------|----------------------------|
| 1. Fusible switch | 7. Direct mounted handle |
| 2. Shaft | 8. Electrical interlock |
| 3. Module for auxiliary contacts | 9. Detachable neutral link |
| 4. Auxiliary contact | 10. Conversion kit |
| 5. Fuse monitor | 11. DIN rail mounting kit |
| 6. Pistol type handle | 12. Terminal shroud |

Please note that listed accessories are not automatically included in your order.
Ordering information for accessories from pages 9-14 through 9-36.

Fusible disconnect switches 100...1200A

Selection overview



Accessory guide for OS100...1200

- | | |
|---------------------------------|-----------------------------|
| 1. Fusible switch | 8. Fuse monitor |
| 2. Shaft | 9. Pistol handle |
| 3. Terminal clamp | 10. Direct mount handle |
| 4. Fourth pole | 11. Detachable neutral link |
| 5. Terminal shroud | 12. Electrical interlock |
| 6. Module for auxiliary contact | 13. Conversion kit |
| 7. Auxiliary contact | 14. DIN rail mounting kit |

Please note that listed accessories are not automatically included in your order.
Ordering information for accessories from pages 9-14 through 9-36.

Accessories for fusible disconnect switches 30...200A

Ordering information for handles



OHB45J6

Pistol handle for front operated fusible switches

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position. Screw fixing from the back side of the handle ensures double insulation.



OHY65J6



OHG80J6



OHM65L6



OHB65J6T

For shaft diameter 6mm (for OS30...200)

Color	Handle length [mm]	Type	Order number	Weight/unit [kg]
NEMA Type 1/3R/12 (IP65), black and red-yellow: I-O/ON-OFF, grey: I-O				
Black	45	OHB45J6	1SCA022380R8770	0.13
Red-yellow	45	OHY45J6	1SCA022380R8930	0.13
Grey	45	OHG45J6	1SCA022380R8850	0.13
Black	65	OHB65J6	1SCA022380R9660	0.13
Red-yellow	65	OHY65J6	1SCA022380R9820	0.13
Grey	65	OHG65J6	1SCA022380R9740	0.13
Black	80	OHB80J6	1SCA022381R0240	0.14
Red-yellow	80	OHY80J6	1SCA022381R0410	0.14
Grey	80	OHG80J6	1SCA022381R0320	0.14
NEMA Type 4/4X (IP66), black, red-yellow and metal: I-O/ON-OFF				
Black	45	OHB45L6	1SCA109848R1001	0.14
Red-yellow	45	OHY45L6	1SCA109849R1001	0.14
Metal	45	OHM45L6	1SCA111295R1001	0.7
Black	65	OHB65L6	1SCA022580R9650	0.14
Red-yellow	65	OHY65L6	1SCA109850R1001	0.14
Metal	65	OHM65L6	1SCA022739R1070	0.8
Black	80	OHB80L6	1SCA022577R7010	0.16
Red-yellow	80	OHY80L6	1SCA022577R7190	0.16
NEMA Type 1/3R/12 (IP65), black and red-yellow: Test/I-O/ON-OFF, grey: Test/I-O				
Black	45	OHB45J6T	1SCA109870R1001	0.13
Black	65	OHB65J6T	1SCA022399R8110	0.13
Red-yellow	65	OHY65J6T	1SCA022456R9540	0.13
Grey	65	OHG65J6T	1SCA022456R9620	0.13
Black	80	OHB80J6T	1SCA022399R8290	0.14

Door interlocking in the ON-position means that the door cannot be opened, when the handle is in the ON-position. This can be defeated to allow authorized personnel access for inspection.

Handles padlockable in all positions are available on request.

Accessories for fusible disconnect switches 400...1200A

Ordering information for handles



OHB95J12



OHY125J12



OHG145J12



OHB274J12



OHY330J12



OHB150J12P



OHY200J12P



OHM125L12



OHM175L12



OHY95J12T



OHB125J12T



OHB175J12T

Pistol handle for front operated fusible switches

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position. Screw fixing from the back side of the handle ensures double insulation.

For shaft diameter 12mm (for OS400...1200)

Color	Handle length [mm]	Type	Order number	Weight/unit [kg]
NEMA Type 1/3R/12 (IP65), black and red-yellow: I-O/On-OFF, grey: I-O				
Black	95	OHB95J12	1SCA022381R0830	0.15
Red-yellow	95	OHY95J12	1SCA022381R1050	0.15
Grey	95	OHG95J12	1SCA022381R0910	0.15
Black	125	OHB125J12	1SCA022381R1560	0.16
Red-yellow	125	OHY125J12	1SCA022381R1720	0.16
Grey	125	OHG125J12	1SCA022381R1640	0.16
Black	145	OHB145J12	1SCA022381R2110	0.17
Red-yellow	145	OHY145J12	1SCA022381R2370	0.17
Grey	145	OHG145J12	1SCA022381R2290	0.17
Black	175	OHB175J12	1SCA022381R2450	0.20
Red-yellow	175	OHY175J12	1SCA022381R2700	0.20
Grey	175	OHG175J12	1SCA022381R2610	0.20
Black	274	OHB274J12	1SCA115920R1001	0.42
Red-yellow	274	OHY274J12	1SCA115919R1001	0.42
Black	330	OHB330J12	1SCA115922R1001	0.60
Red-yellow	330	OHY330J12	1SCA115921R1001	0.60
Black	2X 150	OHB150J12P	1SCA022865R9430	0.44
Red-yellow	2X 150	OHY150J12P	1SCA101586R1001	0.44
Black	2X 200	OHB200J12P	1SCA022865R9510	0.50
Red-yellow	2X 200	OHY200J12P	1SCA101587R1001	0.50
NEMA Type 4/4X (IP66), black, red-yellow and metal: I-O/On-OFF				
Black	125	OHB125L12	1SCA022577R7350	0.17
Metal	125	OHM125L12	1SCA022739R1150	0.80
Black	145	OHB145L12	1SCA022577R7510	0.18
Red-yellow	145	OHY145L12	1SCA022577R7600	0.18
Black	175	OHB175L12	1SCA022577R7780	0.20
Red-yellow	175	OHY175L12	1SCA022577R7860	0.20
Metal	175	OHM175L12	1SCA022739R1230	0.90
Black	274	OHB274L12	1SCA120238R1001	0.24
Black	330	OHB330L12	1SCA120256R1001	0.60
Black	2X 200	OHB200L12P	1SCA111564R1001	0.50
Red-yellow	2X 200	OHY200L12P	1SCA111569R1001	0.50
NEMA Type 1/3R/12 (IP65), black and red-yellow: Test/I-O/ON-OFF				
Black	95	OHB95J12T	1SCA022736R1750	0.15
Red-yellow	95	OHY95J12T	1SCA022736R1910	0.15
Black	125	OHB125J12T	1SCA022652R2220	0.16
Red-yellow	125	OHY125J12T	1SCA022652R2310	0.16
Black	145	OHB145J12T	1SCA022652R2570	0.17
Red-yellow	145	OHY145J12T	1SCA022652R2650	0.17
Black	175	OHB175J12T	1SCA022708R0740	0.20
Black	274	OHB274J12T	1SCA120250R1001	0.42
Black	330	OHB330J12T	1SCA120252R1001	0.60
Black	2X 200	OHB200J12PT	1SCA106510R1001	0.50

Door interlocking in the ON-position means that the door cannot be opened, when the handle is in the ON-position. This can be defeated to allow authorized personnel access for inspection.
Handles padlockable in all positions are available on request.

Accessories for fusible disconnect switches 30...1200A

Ordering information for handles



OHB65J6E00S



OHY65J6E00S



OHZX14

Pistol handles for side operated switch fuses

Plastic pistol handles, IP 65, NEMA type 1, 3R, 12

For mounting on the side of the enclosure. Padlockable with three padlocks in the OFF-position, door interlock in the ON-position, IP 65. The position indications are rotated 90°. If the handle is mounted on the front of the door, a standard handle can be used as well.

For shaft diameter 6mm

Color	Handle length [mm]	Type	Order number	Weight/unit [kg]
Plastic handles, black and red-yellow: I-O/ON-OFF, grey: I-O.				
Black	65	OHB65J6E00S	1SCA022382R9850	0.12
Red-yellow	65	OHY65J6E00S	1SCA022382R9930	0.12
Plastic handles, black and red-yellow: Test/I-O/ON-OFF, grey: Test/I-O.				
Black	65	OHB65J6TE00S	1SCA109016R1001	0.12

For shaft diameter 12mm

Plastic handles, indication I-O/ON-OFF				
Black	145	OHB145J12E00S	1SCA022679R9700	0.17

Door interlocking in the ON-position means that the door cannot be opened, when the handle is in the ON-position. This can be defeated to allow authorized personnel access for inspection.
Handles padlockable in all positions are available on request.

Extension ring for pistol handles

Suitable for handles	Color	Type	Order number	Weight/unit [kg]
OHB_	Black	OHZX14	1SCA022851R6590	0.06

Accessories for fusible disconnect switches 30...1200A

Ordering information for handles



OSV250DK



OSV400DK



OSV1250DK



OHB4

Direct mount handles for front operated switch fuses

Panel board handle, can be padlocked in the OFF-position. Includes a special shaft. The handle can also be used with a standard shaft as padlocking device.

Suitable for OS 60...1200

Suitable for switches	Color	Type	Order number	Weight/unit [kg]
Indication: Test OFF-ON/Test O-I indication Padlockable with three padlocks in the OFF-position, optionally also in the ON-position. Includes shaft and mechanism cover.				
OS60GJ, OS100GJ	Black	OSV250DK	1SCA022763R3510	0.16
OS60GJ, OS100GJ	Red-yellow	OSVY250DK	1SCA022778R6500	0.16
OS200J	Black	OSV200BK	1SCA022779R7530	0.14
OS200J	Red-yellow	OSVY200BK	1SCA022779R7700	0.14
OS400J	Black	OSV400BK	1SCA022763R3930	0.33
OS400J	Red-yellow	OSVY400BK	1SCA022779R5830	0.33
OS600...800	Black	OSV800DK	1SCA107794R1001	1.1
OS600...800	Red-yellow	OSVY800DK	1SCA108703R1001	1.1
OS1200	Black	OSV1250DK	1SCA107797R1001	1.5
OS1200	Red-yellow	OSVY1250DK	1SCA108702R1001	1.5

Direct mount handles for side operated switch fuses

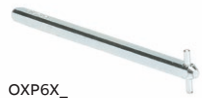
Panel board handle, can be padlocked in the OFF-position. Includes a special shaft. The handle can also be used with a standard shaft as padlocking device.

Suitable for OS 30 (OS Mini)

Padlockable with three padlocks in the OFF- position when the door is open. Max. bail dia 6mm.				
OS20F...40F_	Black	OHB4	1SCA022439R4050	0.05

Accessories for fusible disconnect switches OS30...1200

Ordering information for shafts



OXP6X_



OXP12X_



OETL-ZX95

Shaft diameter 6mm (for OS30...200)

Shaft length [mm]	Type	Order number	Weight/unit [kg]
57	OXP6X57	1SCA125050R1001	0.01
63	OXP6X63	1SCA111010R1001	0.02
87	OXP6X87	1SCA109421R1001	0.02
90	OXP6X90	1SCA022064R1180	0.03
108	OXP6X108	1SCA125762R1001	0.03
130	OXP6X130	1SCA022057R0570	0.04
150	OXP6X150	1SCA022295R5600	0.05
158	OXP6X158	1SCA122303R1001	0.05
161	OXP6X161	1SCA022067R1760	0.05
170	OXP6X170	1SCA108224R1001	0.05
210	OXP6X210	1SCA022295R6080	0.06
265	OXP6X265	1SCA108225R1001	0.08
290	OXP6X290	1SCA022042R6370	0.08
310	OXP6X310	1SCA022720R5710	0.09
360	OXP6X360	1SCA022042R6530	0.10
400	OXP6X400	1SCA108226R1001	0.12
430	OXP6X430	1SCA022056R6030	0.12
500	OXP6X500	1SCA109416R1001	0.14
700	OXP6X700	1SCA022131R9580	0.19

Shaft diameter 12mm (for OS400...1200)

Shaft length [mm]	Type	Order number	Weight/unit [kg]
166	OXP12X166	1SCA022325R7100	0.18
185	OXP12X185	1SCA022325R6710	0.20
220	OXP12X220	1SCA022063R9610	0.24
250	OXP12X250	1SCA022325R6980	0.30
280	OXP12X280	1SCA022137R5140	0.30
325	OXP12X325	1SCA022042R5810	0.36
395	OXP12X395	1SCA022042R5990	0.43
465	OXP12X465	1SCA022042R6020	0.51
535	OXP12X535	1SCA022042R6110	0.59
625	OXP12X625	1SCA022139R0020	0.70

Shaft extension socket

For extending the shaft

Suitable for shaft diameter [mm]	Type	Order number	Weight/unit [kg]
12	OETL-ZX95	1SCA022083R5620	0.04

Accessories for fusible disconnect switches OS Mini 30A

Ordering information for auxiliary contacts



OA4B10



MCB-10



OA3G01



OSZ4



OESAZX169

Auxiliary contacts for OS30F (OS Mini)

Units/type = 1 piece

Mounting to the switch mechanism

Description	Type	Order number	Weight/unit [kg]
Change over contacts Auxiliary/test contacts. Max. two change over contacts.			
See function chart below	OA4B1C	1SCA022193R0150	0.03
Single pole contacts > 3mm contact gap			
1 NO	OA4B10	1SCA022276R9050	0.03
1 NC	OA4B01	1SCA022276R9210	0.03

Mounting on the side of the switch

Description	Type	Order number	Weight/unit [kg]
Mounting on the side of the switch with aux. contact frame OESA-ZX169			
1NO	MCB-10	1SCA022150R5110	0.03
1NC	MCB-01	1SCA022150R5370	0.03
Snap-on mounting on the switch, by using a frame OSZ4, IP20			
NO contacts are provided with a positive opening feature. Types _AU have gold plated contacts for harsh environments and low operating voltages.			
1 NO	OA1G10	1SCA022353R4970	0.03
1 NC	OA3G01	1SCA022456R7410	0.03
1 NO	OA1G10AU	1SCA022436R7910	0.03
1 NC	OA3G01AU	1SCA022819R5260	0.03

Mounting frames for auxiliary contacts of OS30F (OS Mini)

Description	Amount of auxiliary contacts [pcs]	Type	Order number	Weight/unit [kg]
Frame for auxiliary contacts OA1G10 and OA3G01 and for fuse monitor OFM_				
Mounting on the left side of the switch	max. 6	OSZ4	1SCA022530R0200	0.06
Frame for MCB- auxiliary contacts. Not suitable for side operated switches				
Mounting on the right side of the switch	max. 6	OESA-ZX169	1SCA022196R9360	0.06

Function chart, change over contacts OA4B1C/OS Mini

Handle position	Main contacts	Aux./Test contacts N.O.
Test	open	closed
0	open	open
I	closed	closed

Accessories for fusible disconnect switches 60...1200A

Ordering information for auxiliary contacts



OA1G10, OA3G01

Auxiliary contact blocks for OS60...1200

Suitable for switches	Description	Protection degree	Type	Order number	Weight/unit [kg]
OS60...1200	1NO	IP20	OA1G10	1SCA022353R4970	0.03
	1NC	IP20	OA3G01	1SCA022456R7410	0.03
	1NO	IP20	OA1G10AU ¹	1SCA022436R7910	0.03
	1NC	IP20	OA3G01AU ¹	1SCA022819R5260	0.03

¹Types _AU have gold plated contacts for harsh environments and low operating voltages.

Mounting under the mechanism cover

The “test” contacts operate in ON- and OFF-positions as well as when the handle is turned to TEST-position = 45 degrees over the OFF-position. The “test indication” contacts operate only when the handle is turned to TEST-position. See the function table below. The OA1G10 (N.O.) or OA3G01 (N.C.) auxiliary contact blocks can be used as standard auxiliary contacts, “test” or “test indication” contacts. The desired functions are achieved when an auxiliary contact block is installed in a specific place shown in the mounting instruction. In order to activate the “test” and “test indication” features, a handle with test function is required. See the optional handles, pages 9-14 through 9-18.

Function table of OS60...1200 auxiliary contacts

Handle position	Main contacts	Aux./Test contacts N.O.	Test indication contacts N.O
Test	open	closed	closed
0	open	open	open
I	closed	closed	open

Maximum number of contact blocks, “Aux./test” contacts and “test indication” contacts, see the table below.
Standard versions include all except for N3-types, which are equipped with integrated neutral through the mechanism.

Maximum number of auxiliary contacts under the mechanism cover

	OS60...200		OS400...800		OS1200	
	Standard	N3	Standard	N3	Standard	N3
Pole version	Standard	N3	Standard	N3	Standard	N3
Maximum number of contact blocks	4	0	8	4	12	8
Aux./Test contacts	4	0	4	2	8 ¹	6 ²
Test indication contacts	2	0	4	2	4	2

For contact timing, see page 9-21.

¹6 aux./test contacts and 2 early operation aux./test contacts.

²4 aux./test contacts and 2 early operation aux./test contacts.

Mounting on the left side of the OS switch fuse:

Maximum 8 auxiliary contact blocks (N.O. or N.C.) with the OEA28 module. Side operated types: OS_S30..._S40 types only.



OEA28

Module for auxiliary contacts for OS60...1200

Description	Type	Order number	Weight/unit [kg]
Screw mounting to the left side of the switch	OEA28	1SCA022714R8810	0.04

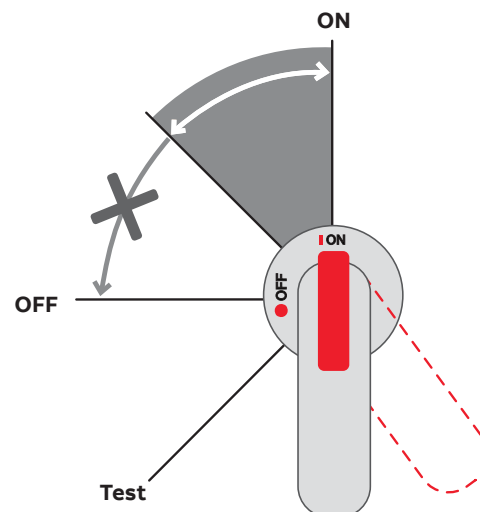
Accessories for fusible disconnect switches OS Mini 30A

Technical information for auxiliary contacts

Handle indications and functions

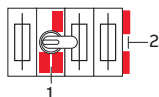
The handle indicates the position of the contacts with complete reliability in all situations. If the contacts are welded together, the handle doesn't reach the OFF-position but remains between ON and OFF, maintaining the door interlock and padlocking is not possible to do.

When operating the switch fuse to the Test-position with a test handle the test auxiliary contacts change position. The main contacts remain open.

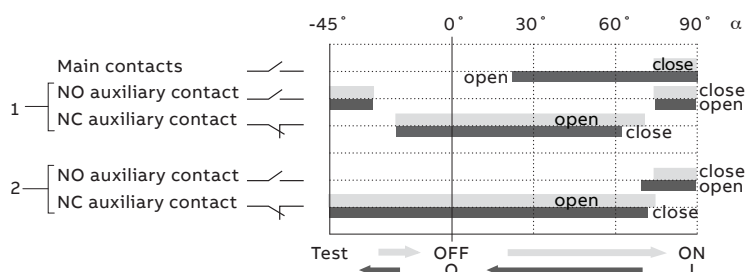


ON and OFF-functions of main and auxiliary contacts

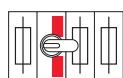
Example



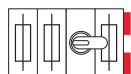
Places of auxiliary contacts and Test ind.



OS Mini

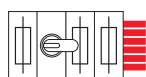
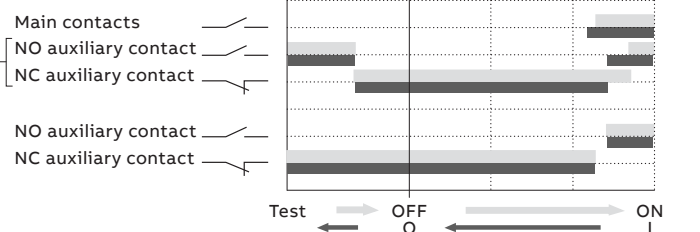


OA4B1C, 1 NO-NC

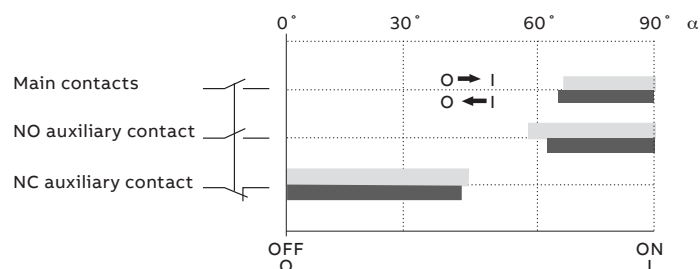


OA1G10, 1NO
OA3G01, 1NC

Change
over
contacts



MCB-10 + OESA-ZX169, 1NO
MCB-01 + OESA-ZX169, 1NC

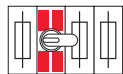


Accessories for fusible disconnect switches 60...1200A

Technical information for auxiliary contacts

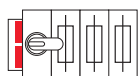
ON- and OFF-functions of main and auxiliary contacts

OS60...1200



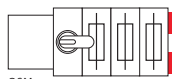
OS_ OSM

OA1G10, 1NO
OA3G01, 1NC



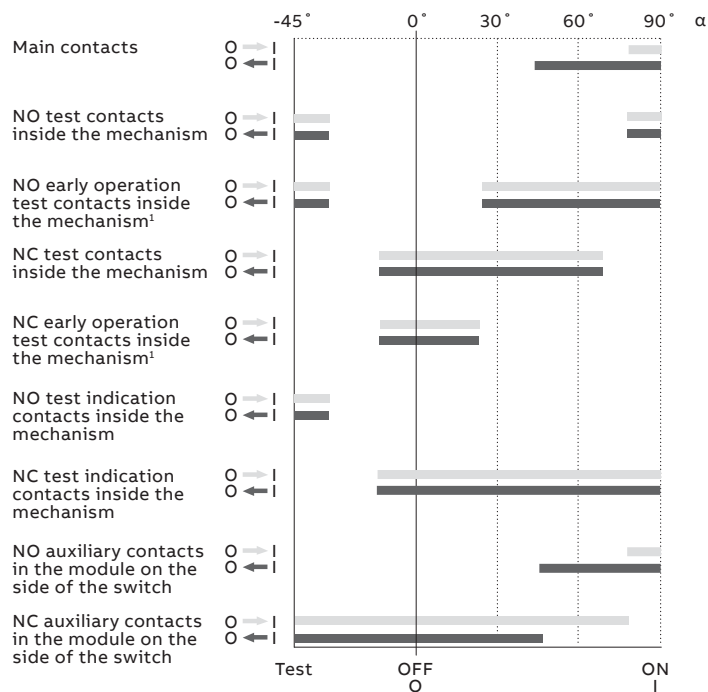
OS_

OA1G10, 1NO
OA3G01, 1NC
+ OEA28



OSM_

OA1G10, 1NO
OA3G01, 1NC



¹ OS1200 only

Accessories for fusible disconnect switches 60...1200A

Ordering information for fourth poles



OSP200J



OSP160GN



OSP250N



OSP800N

Fourth poles
Snap-on mounting to the side of the switch.

Suitable for 3-pole switches	Mounting side	Type	Order number	Weight/unit [kg]
Fusible 4 poles				
OS200J	Left/right	OSP200J	1SCA022735R9000	1.20
OS400J	Left/right	OSP400J	1SCA151737R1001	2.00
OS600J	Left/right	OSP600J	1SCA151731R1001	4.20
OS800L	Left/right	OSP800L	1SCA151732R1001	4.20
OS1200L	Left/right	OSP1200L	1SCA151730R1001	7.20
Switched 4 poles				
OS100G	Left/right	OSP160GN	1SCA114770R1001	0.45
OS200	Left/right	OSP200N	1SCA022735R8700	1.20
OS400	Left/right	OSP400N	1SCA022770R3490	1.20
OS600...800	Left/right	OSP800N	1SCA100432R1001	4.40
OS1200	Left/right	OSP1250N	1SCA107943R1001	7.20

Accessories for fusible disconnect switches 30...1200A

Ordering information for neutral links, solid links, and phase barriers



OSZ1



OXN250



OXN400



OXN800S



KT7PBH

Neutral links

For OS Mini OS30F

Detachable, mounting onto base plate or DIN-rail

Max. wire	H/W/D [mm]	Mounting holes	Type	Order number	Weight/unit [kg]
16 mm ²	39/41/40	ø 4.2, distance 35	OESA-ZX171	1SCA022197R2580	0.06

For OS60G...100G

Detachable, mounting onto the base plate or DIN-rail

Max. wire	H/W/D [mm]	Mounting holes	Type	Order number	Weight/unit [kg]
16 mm ² Cu	39/41/40	ø 4.2, distance 32	OSZ1	1SCA022481R3710	0.06
35 mm ² Cu	39/44/45	ø 4.2, distance 35	OSZ2	1SCA022481R3800	0.07

For OS60...1200

Mounting with screws (included) onto either side of the switch or on the base plate according to the table below.

Suitable for switches	Type	Order number	Weight/unit [kg]
Detachable, mounting on the switch			
OS200	OXN250	1SCA022752R9950	0.40
Detachable, mounting on the base plate			
OS60...200	OXN250	1SCA022752R9950	0.40
OS400	OXN400	1SCA022770R3060	0.70
OS600...800	OXN800S	1SCA022831R4880	1.20
OS1200	OXN1250S	1SCA104163R1001	2.50

Solid links

Suitable for switches	Type	Order number	Weight/unit [kg]
OS200	OEZNL1	1SCA022723R7400	0.19
OS600...1200	OEZNL8	1SCA113998R1001	0.58

Phase barriers

The phase barriers designed for ABB Tmax T4-T5 MCCB's can also be used for OS200...400 switch fuses. 3-pole switch fuses need 4 barriers and 4-pole switch fuses need 6 barriers for full protection. Cutting width of the phase barrier 55mm.

Suitable for switches	No. of poles	Height h[mm]	Type	Order number	Units/type [pcs]
OS100G...OS200	3	-	OSB160/4	1SCA131820R1001	4
OS100G...OS200	3	-	OSB160/6	1SCA131821R1001	6
OS400	3	200	KT7PBH-3	1SDA054972R1	4
OS400	4	200	KT7PBH-4	1SDA054973R1	6

Accessories for fusible disconnect switches 100...1200A

Ordering information for terminal shrouds



OSS200G1L



OSS200G1S



OSS400G1L



OSS800G1L



OSS800G1S



OSS250G1SH

Terminal shrouds

Suitable for switches	Description	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
Pack of single pole terminal shrouds					
Snap-on mounting, grey plastic, IP 3X from front. Transparent shrouds available on request.					
OS100G	Long type	OSS160GG1L/3	1SCA114764R1001	3	0.08
OS100G	Short type	OSS160GG1S/3	1SCA114766R1001	3	0.05
OS100G	Long type	OSS160GG1L/4	1SCA114765R1001	4	0.11
OS100G	Short type	OSS160GG1S/4	1SCA114767R1001	4	0.07
OS200	Long type	OSS200G1L/3	1SCA022731R8910	3	0.09
OS200	Short type	OSS200G1S/3	1SCA022732R0130	3	0.06
OS200	Long type	OSS200G1L/4	1SCA022731R9040	4	0.12
OS200	Short type	OSS200G1S/4	1SCA022732R0050	4	0.08
OS400	Long type	OSS400G1L/3	1SCA022776R6650	3	0.18
OS400	Short type	OSS400G1S/3	1SCA022776R6900	3	0.10
OS400	Long type	OSS400G1L/4	1SCA022776R6730	4	0.25
OS400	Short type	OSS400G1S/4	1SCA022776R7030	4	0.15
OS600...800	Long type	OSS800G1L/3	1SCA022776R7200	3	0.53
OS600...800	Short type	OSS800G1S/3	1SCA022776R7540	3	0.21
OS600...800	Long type	OSS800G1L/4	1SCA022776R7380	4	0.70
OS600...800	Short type	OSS800G1S/4	1SCA022776R7460	4	0.28
OS1200	Long type	OSS1250G1L/3	1SCA107938R1001	3	0.76
OS1200	Short type	OSS1250G1S/3	1SCA107939R1001	3	0.40
OS1200	Long type	OSS1250G1L/4	1SCA107940R1001	4	1.00
OS1200	Short type	OSS1250G1S/4	1SCA107941R1001	4	0.52

Please consult us when using OS600J...OS800L with OZXA-800 lugs.

Accessories for fusible disconnect switches 100...400A

Ordering information for terminal shrouds



OSS160GG3LS



OSS400G3LS

Terminal shrouds:

Three and four pole terminal shrouds for side terminals (LR types)
IP20. Snap-on mounting, grey plastic.

Suitable for switches	No. of poles	Remarks	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
OS100G_LR	3	Long type	OSS160GG3LS	1SCA121570R1001	1	0.01
OS200...400_	3	Short type	OSS400G3SS	1SCA100390R1001	1	0.01
OS200...400_	3	Long type	OSS400G3LS	1SCA100396R1001	1	0.01

Single pole shroud for terminal clamps
Snap-on mounting, transparent plastic, IP 2X.

Suitable for clamps	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
OZXB2, 2L	OZXB2K	1SCA022264R0010	3	0.06
OZXB3, 4	OZXB3K	1SCA022264R0440	3	0.18
OZXB5, 6	OZXB4K	1SCA022199R2850	3	0.24
OZXB7, 7L	OZXB5K	1SCA022283R8040	3	0.15

Accessories for fusible disconnect switches 60...1200A

Ordering information for terminal clamp sets



OZXT1



OZXB8



OZXB2L

Terminal clamp sets

Suitable for switches	Cable cross section [mm²]	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
Insulated versions					
OS60G	16...50 Al, 2.5...50 Cu	OZXT1	1SCA022469R6310	3	0.05

OZXB-type Al/Cu connectors made of stainless steel

Suitable for switches	Cable cross section [mm²]	Suitable shroud	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
OS100G	10...70	OSS160G_	OZXB1L	1SCA022169R2030	3	0.15
OS100G	95...185	OSS160G_	OZXB8	1SCA022744R1510	3	0.50
OS200	10...70	OSS200_L	OZXB1L	1SCA022169R2030	3	0.15
OS200	25...120	OZXB2K	OZXB2	1SCA022119R7610	3	0.34
OS200	25...120	OZXB2K	OZXB2L	1SCA022158R7750	3	0.42
OS200	95...185	OSS200_L	OZXB8	1SCA022744R1510	3	0.50
OS200	95...240	OSS200_L	OZXB9	1SCA022750R3210	3	0.50
OS400	25...120	OSS400_L	OZXB2L	1SCA022158R7750	3	0.42
OS400	95...185	OZXB3K	OZXB3	1SCA022136R8100	3	1.30
OS400	2x(95...185)	OZXB3K	OZXB4	1SCA022137R4760	3	1.70
OS400	120...300	OZXB4K	OZXB5	1SCA022137R2470	3	2.30
OS400	2x(120...300)	OZXB4K	OZXB6	1SCA022137R4920	3	3.03
OS400	120...240	OZXB5K	OZXB7	1SCA022185R0040	3	1.00
OS400	95...185	OSS400_L	OZXB8	1SCA022744R1510	3	0.50
OS400	95...240	OSS400_L	OZXB9	1SCA022750R3210	3	0.50
OS600...800	95...185	OSS800_L	OZXB3	1SCA022136R8100	3	1.30
OS600...800	2x(95...185)	OSS800_L	OZXB4	1SCA022137R2470	3	1.70
OS600...800	120...300	OSS800_L	OZXB5	1SCA022137R2470	3	2.30
OS600...800	2x(120...300)	OSS800_L	OZXB6	1SCA022137R4920	3	3.03
OS600...800	120...240	OSS800_L	OZXB7L	1SCA022185R7130	3	1.20
OS600...800	95...185	OSS800_L	OZXB8	1SCA022744R1510	3	0.50
OS600...800	95...240	OSS800_L	OZXB9	1SCA022750R3210	3	0.50
OS1200	95...185	OTS1600_L	OZXB3	1SCA022136R8100	3	1.30
OS1200	2x(95...185)	OTS1600_L	OZXB4	1SCA022137R4760	3	1.70
OS1200	120...300	OTS1600_L	OZXB5	1SCA022137R2470	3	2.03
OS1200	2x(120...300)	OTS1600_L	OZXB6	1SCA022137R4920	3	3.03
OS1200	210...240	OTS1600_L	OZXB7L	1SCA022185R7130	3	1.20
OS1200	95...185	OTS1600_L	OZXB8	1SCA022744R1510	3	0.50
OS1200	95...240	OTS1600_L	OZXB9	1SCA022750R3210	3	0.50

Accessories for fusible disconnect switches 100...1200A

Ordering information for terminal lugs



Terminal lug kits from Al- and Cu-cables for UL/CSA disconnect switches

One kit includes 6 pcs.

Suitable for switches	Cable size	Type	Tightening torque [lb.in/Nm]	Weight/ unit [kg]	Weight/ unit [lb]
OS100	AWG 14 - 2/0	OZXA-24	120/13.6	0.21	0.45
OS200	AWG 4 - 300 MCM	OZXA-200	275/31.1	0.04	0.09
OS400	AWG 2 - 600 MCM	OZXA-400	375/42.4	0.05	0.12
OS600...800	2 X AWG 2 - 600 MCM	OZXA-800	500/56.5	0.21	0.45
OS1200	4 X AWG 2 - 600 MCM	OZXA-1200	500/56.5	0.45	0.98

Technical data for terminal lugs

Description	
UL approval file	E60207
Temperature rating, °C	75
Wire tightening Type of tool	Allen (Hex) wrench
Lug mounting	Bolt & nut mounting
AWG (American Wire Gauge) wire class	B.C

Accessories for fusible disconnect switches 60...1200A

Ordering information for conversion kits



OESAZW2



OTZW25



OTZW26



OETLZW14

Conversion kits for front operated combination switches

Suitable for switches	Switches needed [pcs]	Shaft distance [mm]	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
-----------------------	-----------------------	---------------------	------	--------------	-------------------	-------------------

6 and 8-pole switch mechanism

Parallel attachment for connecting 3- and 4-pole switches. The switches work simultaneously.

6 and 8-pole switches, OS60-400

The attachment levers are provided with holes, enabling different shaft distances.
The combination switches can be mounted either horizontally or vertically.

OS60...200	Two 3- or 4-pole	45...240mm, step distance 15mm	OESAZW2	1SCA022078R1600	1	0.37
OS400	Two 3- or 4-pole	60...440mm, step distance 20mm	OETLZW9	1SCA022061R3300	1	1.1

Change-over switch mechanism

Two switches connected with a mechanism operating into I-O-II positions.

OS60...200	Two 3- or 4-pole	210...570mm, step distance 20mm	OTZW25	1SCA022778R6920	1	2.8
OS400	Two 3- or 4-pole	210...430mm, step distance 20mm	OETLZW11	1SCA022078R0030	1	3.0
OS400	Two 3- or 4-pole	210...610mm, step distance 20mm	OETLZW12	1SCA022078R0200	1	4.6

Bypass switch mechanism

A combination of two switches in parallel with a third switch for change-over operation to bypass, for example, a breaker for maintenance. The bypass attachment can be used together with another combination attachment.

OS60...200	Three 3- or 4-pole	-	OTZW26	1SCA022778R7060	1	3.3
-	Between 1 and 2:	210...390mm, step distance 20mm	-	-	-	-
-	Between 1 and 3:	250...430mm, step distance 20mm	-	-	-	-
OS400...800	Three 3- or 4-pole	-	OETLZW13	1SCA022078R0460	1	4.0
-	Between 1 and 2:	210...570mm, step distance 20mm	-	-	-	-
-	Between 1 and 3:	250...610mm, step distance 20mm	-	-	-	-

Mechanical interlock mechanism

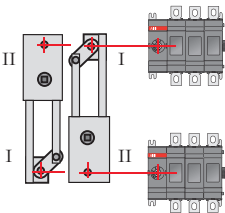
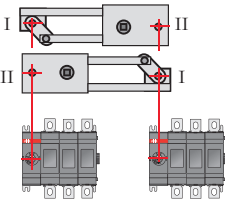
Prevents one switch from closing to ON -position, if the other is not in OFF - position.

OTZW/OETLZW-types: When mounted upside down, prevents one switch from opening to OFF-position, if the other is not in the ON-position. (UPS-usage, make-before-break)

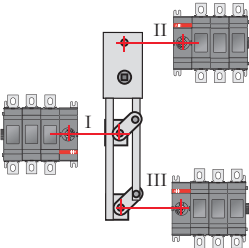
OS60...200	Two 3- or 4-pole	190	OTZW10	1SCA022431R5280	1	0.40
OS400...800	Two 3- or 4-pole	250	OETLZW14	1SCA022077R3410	1	0.70
OS400...800	Two 3- or 4-pole	300	OETLZW3	1SCA022049R0380	1	0.80
OS400...1200	Two 3- or 4-pole	500	OETLZW15	1SCA022081R9340	1	1.24

Accessories for fusible disconnect switches 60...1200A

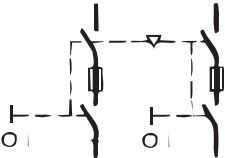
Ordering information for conversion kits



Change-over switches



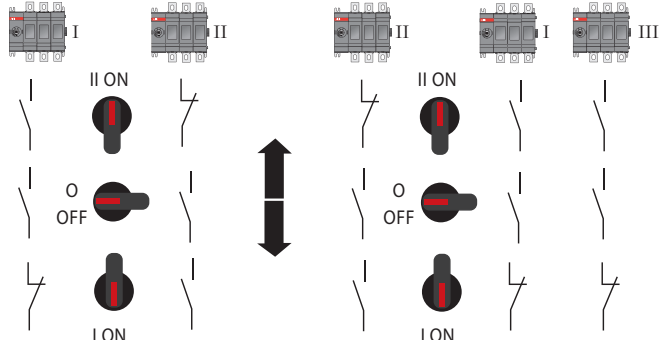
Change-over and bypass switches



Mechanical interlock

Shafts and handles for conversion kits

Conversion kit type	Shaft	To be ordered separately	Shaft	Included in the conversion kit delivery	The standard handle or shaft of one of the combined switches can be used	
		Handle		Handle	Shaft	Handle
6 and 8-pole switches						
OESAZW2	-	-	x (2 pcs)	OHB145J12	-	-
OETLZW9	-	-	-	-	x	x
Change-over switches						
OTZW25	-	-	x (2 pcs)	OHB95J12E011	-	-
OETLZW11	-	-	x (2 pcs)	OHB145J12E011	-	-
OETLZW12	-	-	x (2 pcs)	YASDA21	-	-
Bypass switches						
OTZW26	-	-	x (3 pcs)	OHB95J12E011	-	-
OETLZW13	-	-	x (3 pcs)	YASDA 6	-	-
Mechanical interlock						
OTZW10	-	-	-	-	x	x
OETLZW14	-	-	-	-	x	x
OETLZW3	-	-	-	-	x	x
OETLZW15	-	-	-	-	x	x



Change-over switches

Bypass switches

Accessories for fusible disconnect switches 30...1200A

Ordering information for electronic fuse monitor



OFM260



OFS260



OFD500EA



OFMZX2



OSZ4

Electronic fuse monitor

Includes the auxiliary contacts 1NO + 1NC. More information, see brochure OFM_OFS20GB.

OS Mini 30A

Mounting onto the left side of OS Mini (with a frame OSZ4) or on mounting plate.

Rated voltage [V]	Approvals	Type	Order number	Weight/ unit [kg]
120...240/AC	IEC, UL and CSA	OFM240	1SCA022579R1340	0.2
120...260/AC	IEC	OFM260	1SCA022459R8560	0.14
380...600/AC	IEC, UL and CSA	OFM600	1SCA022579R1260	0.2
380...690/AC	IEC	OFM690	1SCA022459R8480	0.14

OS60...1200

Mounting onto the left side of fusible switch, on DIN rail or on mounting plate.

Rated voltage [V]	Approvals	Type	Order number	Weight/ unit [kg]
100...260/AC	IEC	OFS260	1SCA022716R0180	0.16
380...690/AC	IEC	OFS690	1SCA022715R9920	0.16
45...140/DC	IEC	OFD110EA	1SCA121775R1001	0.155
135...550/DC	IEC	OFD500EA	1SCA121776R1001	0.155

Mounting accessories for fuse monitor

Suitable for switches	Wire size range	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
Crimp terminals					
OS_	AWG 16 - 14	OFMZX2	1SCA022475R9910	6	0.01
Mounting frame for OS Mini					
Mounting on the left side of the switch		OSZ4	1SCA022530R0200	1	0.60

Accessories for fusible disconnect switches 60...1200A

Ordering information for cam attachment and interlocks



OSZT1A



OSZT2A



OETLZW5

Mechanism interlock kits and Electrical interlocks

OS60...1200 fusible switches can be interlocked in the OFF position using padlocks and by using a mechanical interlock kit mounted on the mechanism. The diameter of the lock bail can be max 8mm.

Note: The shaft must go through the interlock into the switch mechanism.

Suitable for switches	Type	Order number	Weight/unit [kg]
Interlocking in the OFF position			
OS60...100	OTZT1A	1SCA106522R1001	0.21
OS200	OSZT1A	1SCA106532R1001	0.32
OS400	OSZT2A	1SCA106534R1001	0.75
OS600...800	OSZT3A	1SCA106535R1001	1.20
OS1200	OSZT4A	1SCA106536R1001	2.00
Interlocking in the OFF & ON positions			
OS60...100	OTZT1L	1SCA106527R1001	0.21
OS200	OSZT1L	1SCA106538R1001	0.32
OS400	OSZT2L	1SCA106539R1001	0.75
OS600...800	OSZT3L	1SCA106540R1001	1.20
OS1200	OSZT4L	1SCA106541R1001	2.00

Cam attachment

Cam attachment for Castell, Lowe & Fletcher and Ronis interlock. Lock, handle or shaft are not included. Mounting on OXP shaft working together with external OH door handle.

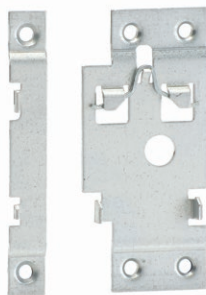
Suitable for switches	Type	Order number	Weight/unit [kg]
OS400...1200	OETL-ZW5	1SCA022052R3900	0.14

Accessories for fusible disconnect switches 60...1200A

Ordering information for coils and mounting accessories



PDAL2-230AC50Hz



OSGZD1

Coils

By installing a coil inside the housing of the interlock kit the switch can be interlocked electrically in the OFF position or both in the OFF and ON positions. The electrical interlock works using the "closed circuit principle", meaning that when the control voltage is not connected to the coil, the switches provided with A-type interlocks cannot be turned to the ON position and switches with L-type interlocks cannot be turned to the ON or OFF positions.

Suitable for switches	Type	Order number	Weight/unit [kg]
AC coils			
24 VAC, 60 Hz	PDAL2/24AC60Hz	1SCA111350R1001	0.15
110 VAC, 50Hz	PDAL2/110AC50Hz	1SCA106543R1001	0.15
110 VAC, 60Hz	PDAL2/110AC60Hz	1SCA107100R1001	0.15
120 VAC, 60 Hz	PDAL2/120AC60Hz	1SCA111353R1001	0.15
208 VAC, 60Hz	PDAL2/208AC60Hz	1SCA107101R1001	0.15
230 VAC, 50Hz	PDAL2/230AC50Hz	1SCA107102R1001	0.15
240 VAC, 60 Hz	PDAL2/240AC60Hz	1SCA111356R1001	0.15
DC coils			
24 VDC	PDAL2/24DC	1SCA106542R1001	0.15
48 VDC	PDAL2/48DC	1SCA107103R1001	0.15
60 VDC	PDAL2/60DC	1SCA107104R1001	0.15
110 VDC	PDAL2/110DC	1SCA107105R1001	0.15
125 VDC	PDAL2/125DC	1SCA111338R1001	0.15
220 VDC	PDAL2/220DC	1SCA112503R1001	0.15
Technical data for the coil			
Operating voltage	-	U=0.8...1.1 x Un	-
Operating ambient temperature	-	-40° C...65° C	-
Power consumption	with AC	6.5 W	-
-	with DC	9 VA	-

Mounting accessories: DIN-rail mounting kit

For mounting a switch fuse into 35mm DIN-rail

Suitable for switches	Type	Order number	Weight/unit [kg]
OS32G...160G, 1 - 4 -pole	OSGZD1	1SCA115688R1001	0.20

Accessories for fusible disconnect switches 60...1200A

Ordering information for spare part kits

Spare part kits

Suitable for switches	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
Fuse cover, window and label set				
OS60G	OSFC2/B10	1SCA149872R1001	10	0.11
OS100G	OSFC5/B10	1SCA149875R1001	10	0.18
OS200	OSFC7/B10	1SCA149877R1001	10	0.33
OS400	OSFC10/B4	1SCA149865R1001	4	0.22
OS600...800	OSFC11	1SCA149866R1001	1	0.10
OS1200	OSFC12	1SCA149867R1001	1	0.33
Fuse cover				
OS30FACC/OS30FAJ	OSFC16	1SCA149871R1001	1	0.07
Mechanism cover and label set				
OS60G...100G	OSMC1/B4	1SCA149880R1001	4	0.04
OS200	OSMC2/B4	1SCA149881R1001	4	0.05
OS400	OSMC3	1SCA149882R1001	1	0.02
OS600...800	OSMC4	1SCA149883R1001	1	0.05
OS1200	OSMC5	1SCA149884R1001	1	0.07
Shaft locking ring and screw				
OS60G...200	OTZS2/B10	1SCA126043R1001	10	0.01
Lock spring and screw				
OS400...1200	OZX1	1SCA105708R1001	10	0.09

Flange handles for fusible disconnect switches 30...1200A

Ordering information for flange handles



Switch



Handle



Shaft

Lug kit¹

ABB's flange operated disconnect switches comply with NFPA79 requirements. The flange operated disconnect switches are available as ridged shaft or flexible cable operated versions. The cable operated version provides flexible depth and mounting location depending on the length of the cable. Cables are available in lengths up to 120 inches.

Shaft operated 30...100A

For a complete assembly, please select one of each.

Flange operated fusible disconnects (shaft) 3-pole

UL general purpose amp rating (A)	UL fuse type 600V	Order number
30	CC	OS30FACCF30
30	J	OS30FAJF30
60	J	OS60GJF30
100	J	OS100GJF30

Flange handle

NEMA rating	Marking	Defeatable	Padlockable	Order number
1/12/3R	OFF/ON	No	Yes	DSFHN-HS12
4/4X	OFF/ON	No	Yes	DSFHN-HS4

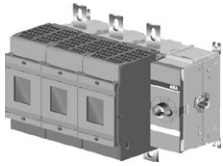
Shafts

For use with	Maximum enclosure depth (in.)	Order number
OS30...100	16	DSFHS-12
	21	DSFHS-17
	26.5	DSFHS-22

¹ For 100A and above. OS30...60 come with internal lugs.

Flange handles for fusible disconnect switches 30...1200A

Ordering information for flange handles



Switch



Handle



Cable



Lug kit¹



Operating mechanism

Cable operated 30...1200A

For a complete assembly, please select one of each.

Flange operated fusible disconnects (cable) 3-pole

UL general purpose amp rating (A)	UL fuse type 600V	Disconnect switch order number	Mechanism order number
30	CC	OS30FACC12	MKCS2
30	J	OS30FAJ12	MKCS2
60	J	OS60GJ12	MKCS3
60	J	OS60GJ30	MKCS4
100	J	OS100GJ30	MKCS4
200	J	OS200J30	MKCS4
400	J	OS400J30-FC	included
600	J	OS600J30-FC	included
800	L	OS800L30-FC	included
1200	L	OS1200L30-FC	included

Flange handle

For use with	Order number	
	NEMA rating 1/12/3R	NEMA rating 4/4X
OS30FA_12, OS60...100GJ30, OS200J30	OHF1C12	OHF1C4
OS400J30-FC	K7FCH	K7FCH4
OS600J30-FC	K8FCH	K8FCH4
OS800...1200L30-FC	K9FCH	K9FCH4

Cable

For use with	Order number							
	36 in.	48 in.	60 in.	72 in.	84 in.	96 in.	108 in.	120 in.
OS30FA_12, OS60...100GJ30, OS200J30	OXC1L36	OXC1L48	OXC1L60	OXC1L72	OXC1L84	OXC1L96	OXC1L108	-
OS400...600J30-FC	-	K7C048	K7C060	K7C072	K7C084	K7C096	-	K7C120
OS800...1200L30	-	K8C048	K8C060	K8C072	K8C084	K8C096	-	-

Terminal shrouds

For use with	Order number
OS30FA_12	not needed
OS60GJ30	not needed
OS100GJ30	OSS160GG1L/3
OS200J30	OSS200G1L/3
OS400J30-FC	OSS403-FC
OS600J30-FC	OSS603-FC
OS800L30-FC	OSS803-FC
OS1200L30-FC	OSS1203-FC

¹ For 100A and above. OS30FA_...60GJ_ come with internal lugs.

Non-fusible disconnect switches OT16...2000

Product range



Switch size [A]	20	30	40	60	80
UL508 Switch File #E63822	OT16F	OT25F	OT40F	OT63F	OT80F
240V HP	5	7.5	10	15	20
480V HP	10	15	20	30	40
600V HP	10	20	25	30	40



Switch size [A]	30	60	100	100/125	200	400	600	800	1200	1600	2000
UL98 Switch File #E101914	OT30F	OT60F	OT100F	OT160G ¹	OT200U	OT400U	OT600U	OT800U	OT1200U	OT1600U	OT2000U
240V HP	10	20	30	40	75	125	200	200	-	-	-
480V HP	20	40	50	75	150	250	450	500	-	-	-
600V HP	30	40	50	100	200	350	500	500	-	-	-

¹ UL listed to 100A, UL recognized to 125A

Non-fusible disconnect switches OT16...160

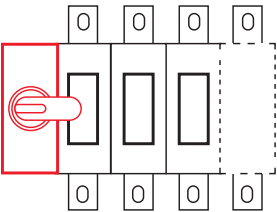
Type designation key

Understanding the type code keys below will help you quickly identify the correct product for your needs.

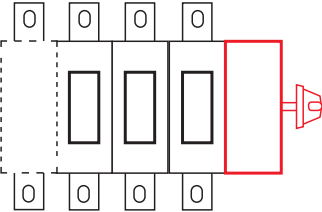
OT16F4N2				
ABB brand OT = ABB switch-disconnector brand		Switch size The second letter in the code indicates the ampere rating [A] of the product: 16...160A		Included accessories N2 = Fourth pole, simultaneous function with the main contacts _ = No accessories included P = Pistol handle + shaft K = Direct mount handle (for base mounting versions only)
Operation/Mounting/Certification F = Base and DIN-rail mounting, front operated FT = Door mounting, front operated		Number of poles and placing of the operating mechanism 3 = 3 poles 4 = 4 poles 6 = 6 poles 8 = 8 poles 03 = 3 poles, operating mechanism at the left end of the switch 04 = 4 poles, operating mechanism at the left end of the switch 30 = 3 poles, operating mechanism at the right end of the switch 40 = 4 poles, operating mechanism at the right end of the switch		

Pole configuration table, OT160G

Front operated
Configuration 03, 04:



Side operated
Configuration 30, 40 or 03, 04:



Non-fusible disconnect switches OT200...2000

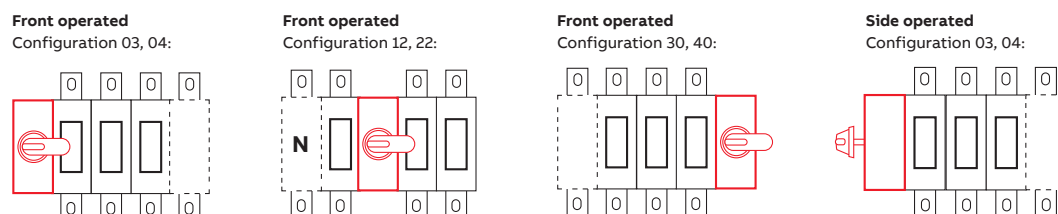
Type designation key

Understanding the type code keys below will help you quickly identify the correct product for your needs.

		OT	400	U	03	W	P		
ABB brand	OT = Manual disconnect switches							Construction 2	
								K = With direct mount handle	
								P = External handle and metal shaft included	
Switch size								Construction 1	
The second letter in the code indicates the ampere rating [A] of the product: 200....2000A								W = With wide phase distance	
Operation/Mounting/Certification								Number of poles and placing of the operating mechanism	
U = Front operated, base mounting, UL/CSA								03 = 3-poles, operating mechanism at the left end of the switch	
				04 = 4-poles, operating mechanism at the left end of the switch					
				12 = 3-poles, operating mechanism between the poles					
				22 = 4-poles, operating mechanism between the poles					
				30 = 3-poles, operating mechanism at the right end of the switch					
				40 = 4-poles, operating mechanism at the right end of the switch					

Pole configuration table

The various placing options of the operating mechanism in relation to the 3 or 4 poles is illustrated below. The operating mechanism may be placed at the end of the switch or between poles.



Non-fusible disconnect switches OT16...100, UL

Technical data for non-fusible disconnect switches

Technical data according to UL/CSA, AC ratings

Switch type			OT16F	OT25F	OT40F	OT63F	OT80F	OT30F	OT60F	OT100F
-	-	Approval	cUL _{US} Listed	cUL _{US} Listed	cUL _{US} Listed	cUL _{US} Listed	cUL _{US} Listed	cUL _{US} Listed	cUL _{US} Listed	cUL _{US} Listed
			E63822	E63822	E63822	E63822	E63822	E101914	E101914	E101914
-	-	Compliance	UL508	UL508	UL508	UL508	UL508	UL98	UL98	UL98
			CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
General purpose amp rating	pf = 0.7...0.8	-40° to 40 °C	20A	30A	40A	60A	80A	30A	60A	100A
Max. operating voltage	-	-	600V	600V	600V	600V	600V	600V	600V	600V
Max. horsepower rating/motor FLA current	Three phase, pf = 0.4...0.5	240V	5 HP/ 15.2A	7.5 HP/ 22.0A	10 HP/ 28.0A	15 HP/ 42.0A	20 HP/ 54.0A	10 HP/ 28.0A	20 HP/ 54.0A	30 HP/ 80.0A
		480V	10 HP/ 14.0A	15 HP/ 21.0A	20 HP/ 27.0A	30 HP/ 40.0A	40 HP/ 52.0A	20 HP/ 27.0A	40 HP/ 52.0A	50 HP/ 65.0A
		600V	10 HP/ 11.0A	20 HP/ 22.0A	25 HP/ 27.0A	30 HP/ 32.0A	40 HP/ 41.0A	30 HP/ 32.0A	40 HP/ 41.0A	50 HP/ 52.0A
	Single phase	120V	1 HP/ 16.0A	1.5 HP/ 20.0A	2 HP/ 24.0A	2 HP/ 24.0A	2 HP/ 24.0A	2 HP/ 24.0A	3 HP/ 34.0A	5 HP/ 56.0A
		240V	2 HP/ 12.0A	3 HP/ 17.0A	5 HP/ 28.0A	7.5 HP/ 40.0A	10 HP/ 50.0A	5 HP/ 28.0A	7.5 HP/ 40.0A	15 HP/ 68.0A
		480V	5 HP/ 14.0A	7.5 HP/ 21.0A	10 HP/ 26.0A	15 HP/ 34.0A	20 HP/ 44.0A	-	-	25 HP/ 55.0A
		600V	7.5 HP/ 16.0A	10 HP/ 20.0A	15 HP/ 27.0A	15 HP/ 27.0A	20 HP/ 38.5A	-	-	20 HP/ 35.0A
	Maximum fuse size	-	30A 60A	30A 60A	30A 60A	100A 150A	100A 150A	60A	60A	150A 100A
Short circuit rating with fuse	Fuse type	J	10kA 10kA	10kA 10kA	10kA 10kA	100 kA -	100 kA -	200kA	200kA	50kA 200 kA
	Fuse type	T	10kA 10kA	10kA 10kA	10kA 10kA	100 kA -	100 kA -	200kA	200kA	50kA 200 kA
	Fuse type	RK1	10kA -	10kA -	10kA -	- -	- -	-	-	- -
	Fuse type	RK5 ¹	5kA 5kA	5kA 5kA	5kA 5kA	10kA 5kA	10kA 5kA	-	-	- -
	Fuse type	L	- -	- -	- -	- -	- -	-	-	- -
	Fuse type	H	- -	- -	- -	- 5kA	- 5kA	-	-	- -
Endurances										
Min. electrical endurance, pf. 0.75...0.8	-	-	6,000 Oper.	6,000 Oper.	6,000 Oper.	6,000 Oper.	6,000 Oper.	6,000 Oper.	6,000 Oper.	6,000 Oper.
Mechanical endurance	-	-	20,000 Oper.	20,000 Oper.	20,000 Oper.	20,000 Oper.	20,000 Oper.	20,000 Oper.	20,000 Oper.	20,000 Oper.
Terminal lugs	-	-	integrated	integrated	integrated	integrated	integrated	integrated	integrated	integrated
Copper wire range	-	60-75 °C	AWG 18-8	AWG 18-8	AWG 18-8	AWG 14-4	AWG 14-4	AWG 14-4	AWG 14-4	AWG 8-1/0
Torque	-	Wire tightening	0.8 Nm / 7 lb-in	0.8 Nm / 7 lb-in	0.8 Nm / 7 lb-in	2 Nm / 18 lb-in	2 Nm / 18 lb-in	6.2 Nm / 55 lb-in	6.2 Nm / 55 lb-in	6.2 Nm / 55 lb-in

¹Fuse size 70A for RK5

Non-fusible disconnect switches OT160, UL

Technical data for non-fusible disconnect switches

Technical data according to UL98, CSA C22.2 No.4

Switch type			OT160G	
			UL _{us} Listed	UL Recognized
General purpose amp rating	pf=0.7...0.8	-40° to 40 °C	100 A	125 A
max. operating voltage			600 V	600 V
Max. horsepower rating/motor FLA current	pf=0.4...0.5 Three phase	240 Vac	40 HP/104 A	40 HP/104 A
		480 Vac	75 HP/96 A	75 HP/96 A
		600 Vac	100 HP/99 A	100 HP/99 A
	Single phase	240 Vac	20 HP/88 A	20 HP/88 A
		480 Vac	30 HP/66 A	30 HP/66 A
		250 Vdc	20 HP/60 A	20 HP/60 A
Fuse size/short circuit rating	Fuse type	J	150 A/100 kA	150 A/100 kA
		T	150 A/100 kA	150 A/100 kA
		RK5	60 A/100 kA	60 A/100 kA
Endurances				
Min. electrical endurance, pf. 0.75 - 0.8			6,000 Oper. cycles	6,000 Oper. cycles
Mechanical endurance			20,000 Operations	20,000 Operations
Terminal lug kits			integrated	integrated
Wire range	Use copper conductors only	60-75 °C	AWG 8-1/0	AWG 8-1/0
Torque		Wire tightening	53 lb.in	53 lb.in
Weight without accessories	3-pole switch		0.5 lb	0.5 lb
	4-pole switch		0.6 lb	0.6 lb
Minimum enclosure dimensions	Height x width x depth		400 x 600 x 230 mm	–
			15.75 x 23.62 x 9.06 in	–

Manual switch-disconnectors OT200...1200, UL

Technical data for non-fusible disconnect switches

Switch type			OT200U		OT400U		OT600U		OT800U		OT1200U		
		Approval	cUL _{us} Listed		cUL _{us} Listed		cUL _{us} Listed		cUL _{us} Listed		cUL _{us} Listed		
		File #	E101914		E101914		E101914		E101914		E101914		
		Compliance	UL98 CSA C22.2 No.4		UL98 CSA C22.2 No.4		UL98 CSA C22.2 No.4		UL98 CSA C22.2 No.4		UL98 CSA C22.2 No.4		
Technical data according to UL/CSA AC Ratings													
General purpose amp rating		pf= 0.7...0.8	-40° to 40 °C	200 A		400 A		600 A		800 A		1200 A	
Max. operating voltage				600 V		600 V		600 V		600 V		600 V	
Max. horsepower rating / max. motor FLA current		Three phase, pf= 0.4...0.5	240 V	75 HP/192.0 A		125 HP/312.0 A		200 HP/480 A		200 HP/602 A		–	
			480 V	150 HP/180.0 A		250 HP/302.0 A		450 HP/515.0 A		500 HP/590 A		–	
			600 V	200 HP/192.0 A		350 HP/336.0 A		500 HP/472.0 A		500 HP/472 A		–	
Short circuit rating with fuse		Fuse type	J	200 kA	100 kA	100 kA	–	100 kA	–	–	–	–	
			T	–	100 kA	–	–	100 kA	–	–	–	–	
		Fuse type	RK5	–	–	–	100 kA	–	–	–	–	–	
			L	–	–	–	–	100 kA	100 kA	100 kA	100 kA	100 kA	
Maximum fuse size				200 A	350 A	600 A	600 A	800 A	800 A	800 A	1200 A	1200 A	
Current rating			at 250 V DC	200 A		400 A		600 A		–		–	
			at 600 V DC	100 A		200 A		200 A		–		–	
DC horsepower rating for 4-pole switch			at 600 V DC	50 HP		50 HP		-		–		–	
DC horsepower rating for 2-pole switch			at 125 V DC	20 HP		-		-		–		–	
			at 250 V DC	40 HP		50 HP		50 HP		–		–	
DC short circuit rating for 4-pole switch			with circuit breaker	10 kA		10 kA		10 kA		–		–	
DC short circuit rating for 2-pole switch			with circuit breaker at 250 V DC	14 kA		14 kA		18 kA		–		–	
			with circuit breaker at 600 V DC	10 kA		10 kA		10 kA		–		–	
			with class J fuse at 250 V DC	100 kA		100 kA		100 kA		–		–	
			... with fuse size	200 A		400 A		600 A		–		–	
Min. electrical endurance, pf. 0.75...0.8		oper. cycles	6,000		1,000		1,000		500		500		
Mechanical endurance		Divide by two for operation cycles	20,000 Oper.		16,000 Oper.		10,000 Oper.		6,000 Oper.		6,000 Oper.		
Terminal lug kits (optional) Wire range		75 °C wire	OZXA-200		OZXA-400		OZXA-800		OZXA-800 or OZXA-1200		OZXA-1200		
			AWG 4 - 300 MCM		AWG 2 - 600 MCM		2X AWG 2 - 600 MCM		2X AWG 2 - 600 MCM or 4X AWG 2 - 600 MCM		4X AWG 2 - 600 MCM		
Torque		Wire tightening	200 lb.in/22.6 Nm		375 lb.in/42.4 Nm		500 lb.in/56.5 Nm		500 lb.in/56.5 Nm		500 lb.in/56.5 Nm		
		Lug mounting	72 lb.in/8.1 Nm		240 lb.in/27.1 Nm		480 lb.in/54.2 Nm		443 lb.in/50.1 Nm		443 lb.in/50.1 Nm		
Minimum enclosure dimensions at rated current		Height x Width x Depth	508x407x178 mm 20.3x16.3x7.1 in		600x350x200 mm 24x14x8 in		600x700x300 mm 24x28x12 in		1220x610x305 mm 48.8x24.4x12.2 in		700x900x400 mm 28x36x16 in		

Manual switch-disconnectors OT1600...2000, UL

Technical data for non fusible disconnect switches

Technical data according to UL/CSAt

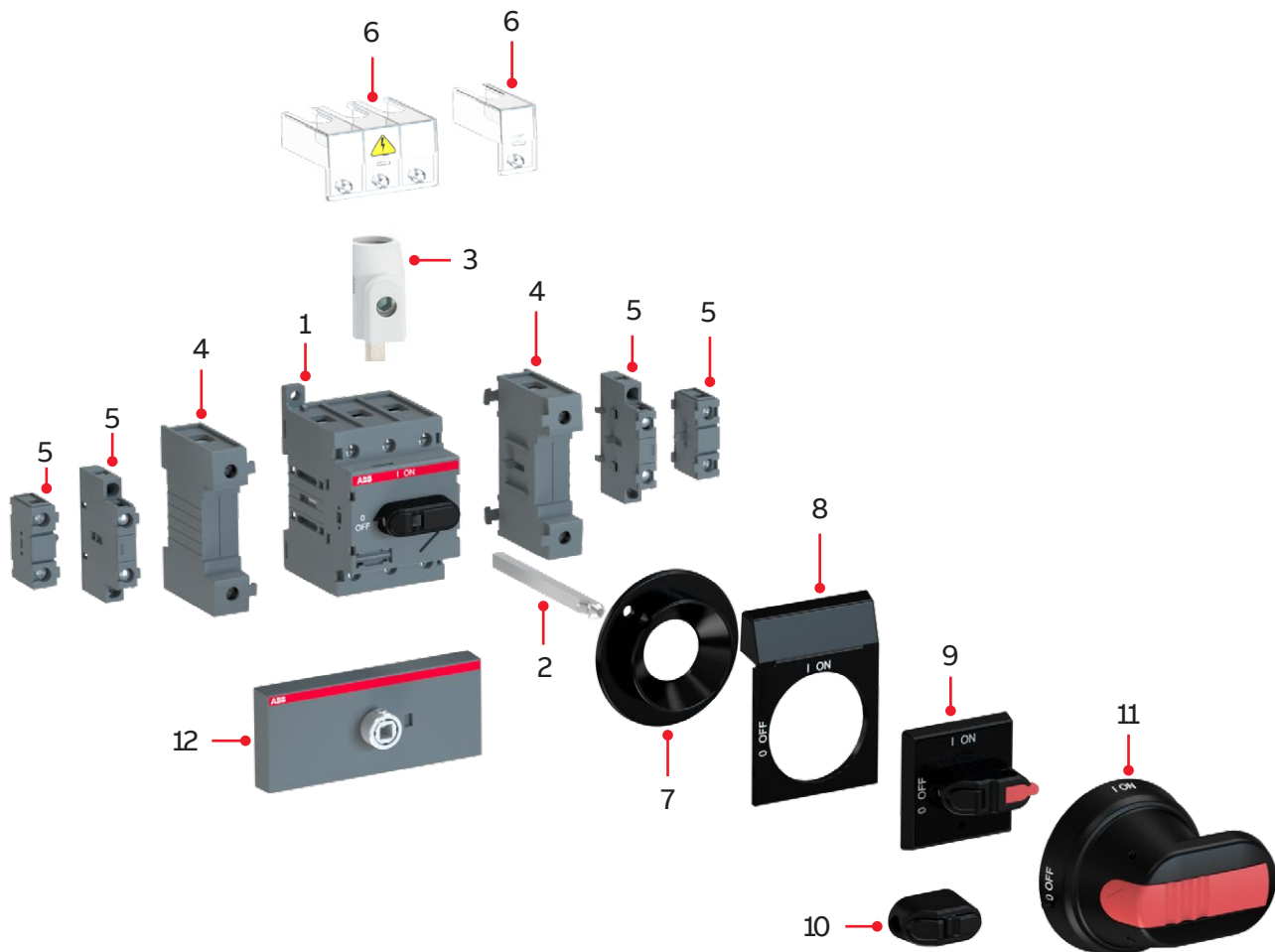
Switch type		OT1600U	OT2000U
	Approval	cUL _{US} Listed	cUL _{US} Listed
	File #	E101914	E101914
	Compliance	UL98	UL98
General Use AC ratings -40 to +40 °C	pf=0.7...0.8 Single and three phase	CSA C22.2 No.4	CSA C22.2 No.4
Voltage rating		1600 A	2000 A
Maximum General Use DC Ratings		600 V	600 V
Short circuit rating with fuse	250 V DC	1600 A	2000 A
Maximum fuse size	Fuse type L	100 kA	100 kA
Minimum electrical endurance pf. 0.75...0.8		2000 A	2000 A
Mechanical endurance	Divide by two for operation cycles	500 Oper.cycles	500 Oper.cycles
Gross/ net weight without handle, shaft and accessories	2-pole switch	2,500 Oper.	2,500 Oper.
	3-pole switch	37/34 kg - 81.6/75 lb	37/34 kg - 81.6/75 lb
	4-pole switch	52/49 kg - 114.6/108 lb	52/49 kg - 114.6/108 lb
Standard shaft and mounting depth	Square dimension x length of shaft	69/65 kg - 152.1/143.3 lb	69/65 kg - 152.1/143.3 lb
	Corresponding mounting depth	12x185 mm/ 0.47x7.3 in	12x185 mm/ 0.47x7.3 in
Standard handle		358-444 mm/ 13.6-16.8 in	358-444 mm/ 13.6-16.8 in
		OHB 274J12 Type	OHB 274J12 Type
Terminal bolt size	Metric thread diameter x length	M12x60 mm (included)	M12x60 mm (included)
Terminal bolt tightening torque	Counter torque required	50 Nm / 443 lb.in	50 Nm / 443 lb.in
Terminal lug kits (optional)	75 °C wire	2X OZXA-1200	2X OZXA-1200
		4X AWG 2 - 600 MCM	4X AWG 2 - 600 MCM
Torque	Wire tightening	56 Nm / 500 lb.in	56 Nm / 500 lb.in
	Lug mounting	50 Nm / 443 lb.in	50 Nm / 443 lb.in
Minimum enclosure dimensions	Height x Width x Depth	1000x800x450 mm	1000x800x450 mm
		39.4x31.5x17.7 in	39.4x31.5x17.7 in

Manual switch-disconnectors for 800...1000 VAC applications

Switch type			OT400U -1000	OT600U -1000	OT800U -1000	OT1200U -800	
	Approval		UL Recognized	cUL _{US} Listed	cUL _{US} Listed	cUL _{US} Listed	
	File #		File E101914	File E101914	File E101914	File E101914	
	Compliance		UL98	UL98	UL98	UL98	
Technical data according to UL/CSA AC Ratings							
General purpose amp rating	-40° to 40 °C		800 VAC	300 A	400 A	600 A	800 A
			1000 VAC	200 A	400 A	600 A	-
Max. Operating voltage			1000 V	1000 V	1000 V	800 V	
Short circuit rating	Fuse type and size	NH3 170M7402 (800VAC, UR approved)	400A	50 kA	50 kA	-	-
	Any circuit breaker or fuse	(800VAC)		22 kA	30 kA	35 kA	35 kA
	Any circuit breaker or fuse	(1000VAC)		22 kA	30 kA	35 kA	-
Min. electrical endurance, pf. 0.75...0.8		oper. cycles		1,000	1,000	1,000	500
Mechanical endurance		Divide by two for operation cycles		16,000 Oper.	10,000 Oper.	8,000 Oper.	6,000 Oper.
Terminal lug kits (optional)		75 °C wire	-	OZXA-400	OZXA-26	OZXA-800	OZXA-800 or OZXA-1200
Wire range			-	AWG 2 - 600 MCM	AWG 2 - 600 MCM	2X AWG 2 - 600 MCM	2X AWG 2 - 600 MCM or 4X AWG 2 - 600 MCM
Torque		Wire tightening		375 lb.in/42.4 Nm	450 lb.in/56.5 Nm	500 lb.in/56.5 Nm	500 lb.in/56.5 Nm
		Lug mounting		340 lb.in/27.1 Nm	228 lb.in/54.2 Nm		480 lb.in/54.2 Nm
Minimum enclosure dimensions at rated current	Height x Width x Depth		600x350x200 mm	600x700x200 mm	800x600x330 mm	800x600x330 mm	
			24x14x8 in	24x28x8 in	32x24x13.2 in	32x24x13.2 in	

Non-fusible disconnect switches OT16...100

Selection overview



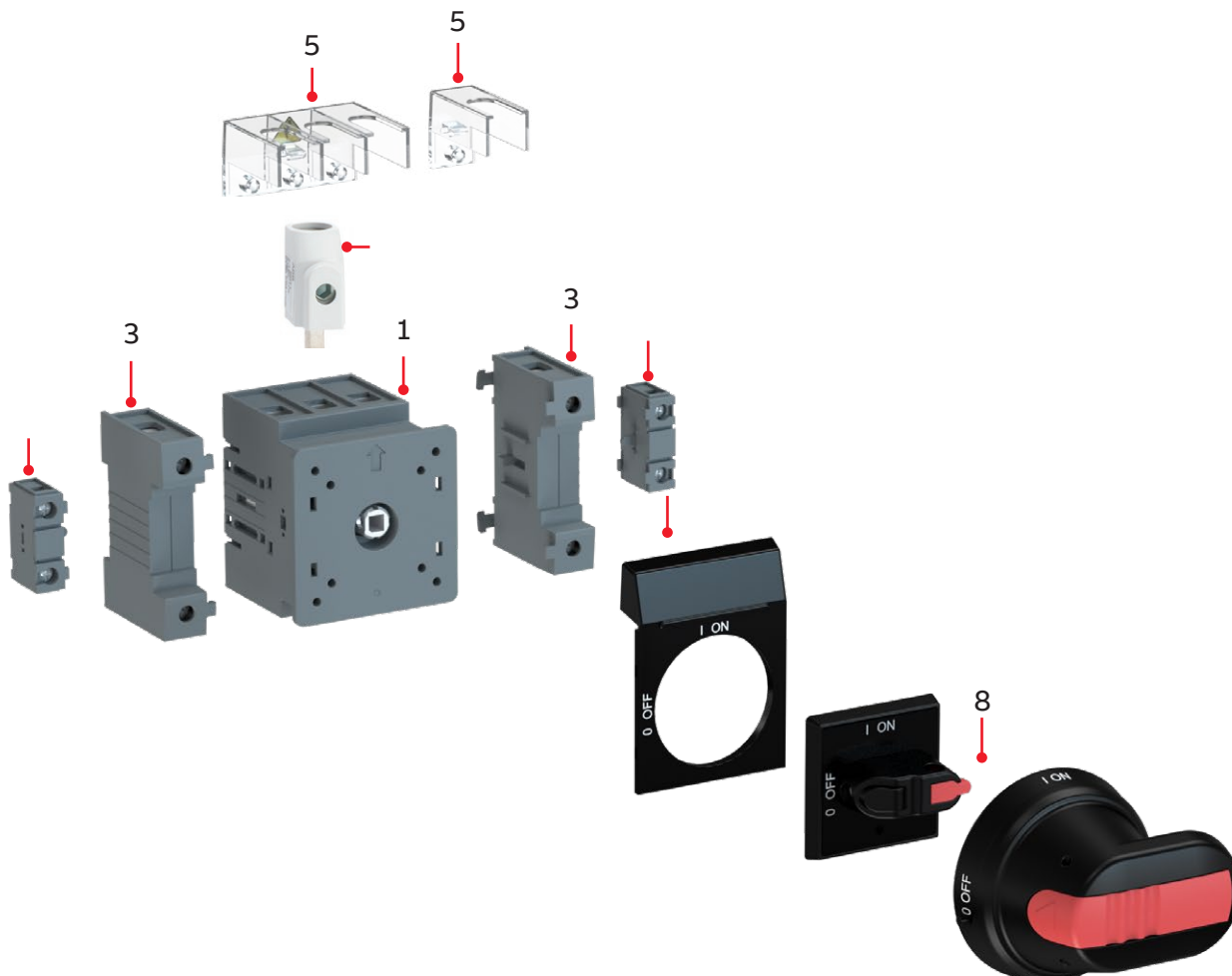
Accessory guide for OT16F...100F (base and DIN-rail mounted disconnect switches)

- | | |
|--|---------------------------|
| 1. Non-fusible switch | 7. Shaft alignment ring |
| 2. Extended shaft | 8. Legend plate |
| 3. Terminal clamp | 9. Selector handle |
| 4. Fourth pole,
N- and PE-terminals | 10. Handle knob |
| 5. Auxiliary contact | 11. Pistol handle |
| 6. Terminal shroud | 12. Conversion kit |
| | 13. Labelling accessories |

Please note that listed accessories are not automatically included in your order.

Non-fusible disconnect switches OT16...100

Selection overview



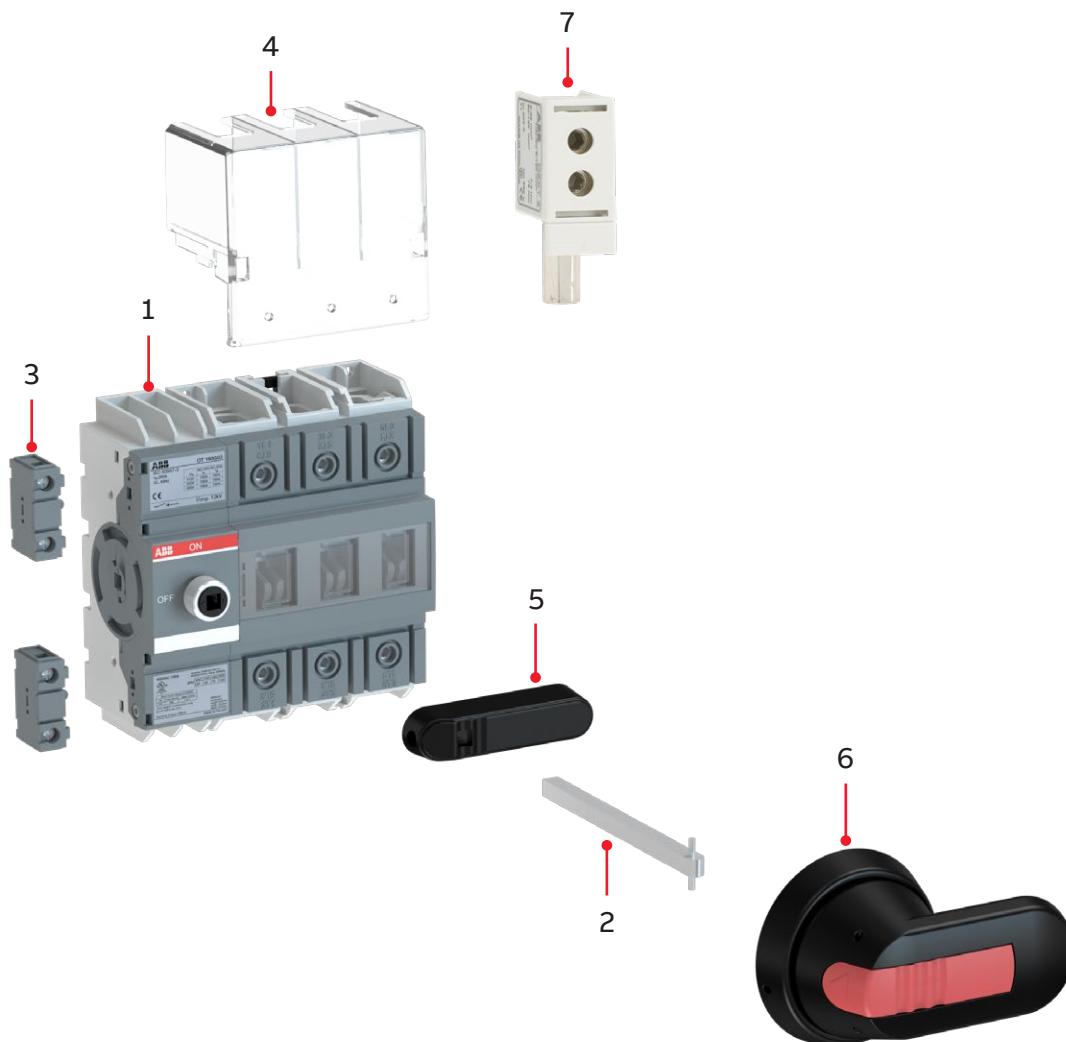
Accessory guide for OT16F...100F (door mounted disconnect switches)

- | | |
|--|--------------------|
| 1. Non-fusible switch | 5. Terminal shroud |
| 2. Terminal clamp | 6. Legend plate |
| 3. Fourth pole,
N- and PE-terminals | 7. Selector handle |
| 4. Auxiliary contact | 8. Pistol handle |

Please note that listed accessories are not automatically included in your order.

Non-fusible disconnect switches OT160

Selection overview



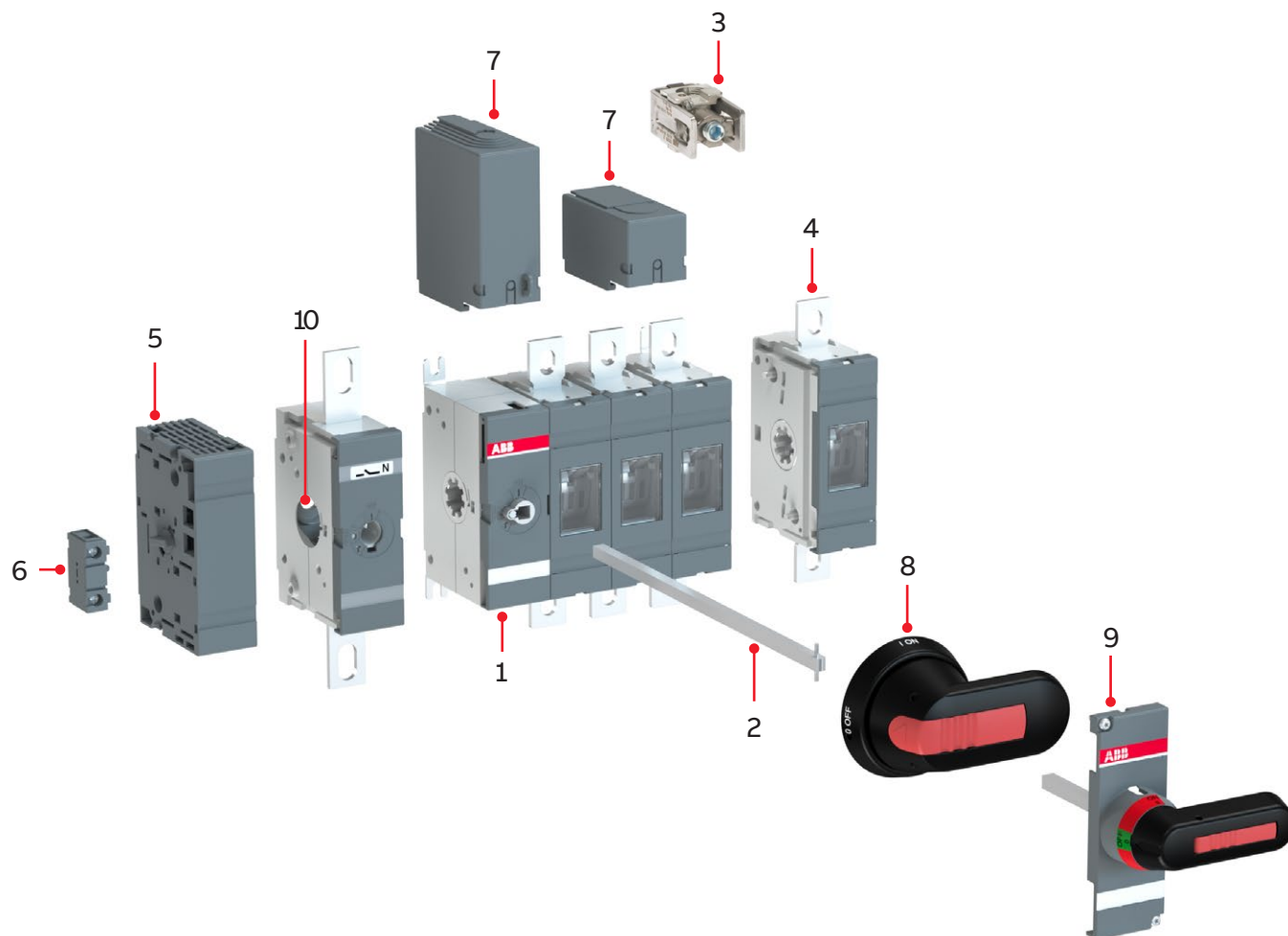
Accessory guide for OT160G (base and DIN-rail mounted disconnect switches)

- | | |
|-----------------------|-------------------|
| 1. Non-fusible switch | 5. Handle knob |
| 2. Extended shaft | 6. Pistol handle |
| 3. Auxiliary contact | 7. Terminal clamp |
| 4. Terminal shroud | |

Please note that listed accessories are not automatically included in your order.

Non-fusible disconnect switches OT200...2000

Selection overview



Accessory guide for OT200...2000

- | | |
|---------------------------------|-----------------------------|
| 1. Non-fusible switch | 7. Terminal shroud |
| 2. Extended shaft | 8. Pistol handle |
| 3. Terminal clamp | 9. Direct mounting handle |
| 4. Fourth pole | 10. Detachable neutral link |
| 5. Module for auxiliary contact | |
| 6. Auxiliary contact | |

Please note that listed accessories are not automatically included in your order.

Non-fusible disconnect switches OT16...100, UL

Ordering information for non-fusible disconnect switches



OT16...40F3



OT63...80F3



OT30...100F3

Front operated non-fusible disconnect switches, base and DIN-rail mounting, UL/CSA

Handle and shaft are not included.

Number of poles	Ampere rating A	Horsepower rating 3-phase			Type	Order number	Weight/ unit	
		240 VAC HP	480 VAC HP	600 VAC HP			kg	lb
3	20	5	10	10	OT16F3	1SCA104811R1001	0.11	0.24
4	20	5	10	10	OT16F4N2	1SCA104829R1001	0.14	0.31
3	30	7.5	15	20	OT25F3	1SCA104857R1001	0.11	0.24
4	30	7.5	15	20	OT25F4N2	1SCA104886R1001	0.14	0.31
3	40	10	20	25	OT40F3	1SCA104902R1001	0.11	0.24
4	40	10	20	25	OT40F4N2	1SCA104932R1001	0.14	0.31
3	60	15	30	30	OT63F3	1SCA105332R1001	0.27	0.60
4	60	15	30	30	OT63F4N2	1SCA105365R1001	0.30	0.66
3	80	20	40	40	OT80F3	1SCA105798R1001	0.27	0.60
4	80	20	40	40	OT80F4N2	1SCA105413R1001	0.30	0.66
3	30	10	20	30	OT30F3	1SCA105068R1001	0.36	0.79
4	30	10	20	30	OT30F4N2	1SCA108347R1001	0.50	1.10
3	60	20	40	40	OT60F3	1SCA105076R1001	0.36	0.79
4	60	20	40	40	OT60F4N2	1SCA108348R1001	0.50	1.10
3	100	30	50	50	OT100F3	1SCA105004R1001	0.36	0.79
4	100	30	50	50	OT100F4N2	1SCA105018R1001	0.50	1.10

Approvals:
OT16,25,40,63,80: UL 508. CSA 22-2 No.14
OT30,60,100: UL 98. CSA 22-2 No.4



OT16...40F6



OT63...80F8



OT100F8

Front operated 6- and 8-pole non-fusible disconnect switches, base and DIN-rail mounting, UL/CSA

Handle and shaft are not included.

Number of poles	Ampere rating A	Horsepower rating 3-phase			Type	Order number	Weight/ unit	
		240 VAC HP	480 VAC HP	600 VAC HP			kg	lb
6	20	5	10	10	OT16F6	1SCA104834R1001	0.25	0.55
6	30	7.5	15	20	OT25F6	1SCA104880R1001	0.25	0.55
6	40	10	20	25	OT40F6	1SCA104936R1001	0.25	0.55
6	60	15	30	30	OT63F6	1SCA105379R1001	0.61	1.35
6	80	20	40	40	OT80F6	1SCA105427R1001	0.61	1.35
6	30	10	20	30	OT30F6	1SCA105298R1001	1.10	2.43
6	60	20	40	40	OT60F6	1SCA105307R1001	1.10	2.43
6	100	30	50	50	OT100F6	1SCA105021R1001	1.10	2.43
8	20	5	10	10	OT16F8	1SCA104836R1001	0.31	0.68
8	30	7.5	15	20	OT25F8	1SCA104882R1001	0.31	0.68
8	40	10	20	25	OT40F8	1SCA104938R1001	0.31	0.68
8	60	15	30	30	OT63F8	1SCA105381R1001	0.67	1.48
8	80	20	40	40	OT80F8	1SCA105429R1001	0.67	1.48
8	30	10	20	30	OT30F8	1SCA109310R1001	1.30	2.87
8	100	30	50	50	OT100F8	1SCA105022R1001	1.30	2.87

Approvals:
OT16,25,40,63,80: UL 508. CSA 22-2 No.14
OT30,60,100: UL 98. CSA 22-2 No.4

Non-fusible disconnect switches OT16...100, UL

Ordering information for non-fusible disconnect switches



OT16...40FT3



OT63...80FT3



OT30...100FT3



OT30...100FT4N2

Front operated non-fusible disconnect switches, door mounting, UL/CSA
Handle and shaft not included.

Number of poles	Ampere rating A	Horsepower rating 3-phase			Type	Order number	Weight/ unit	
		240 VAC HP	480 VAC HP	600 VAC HP			kg	lb
3	20	5	10	10	OT16FT3	1SCA104838R1001	0.13	0.29
4	20	5	10	10	OT16FT4N2	1SCA105711R1001	0.16	0.35
3	30	7.5	15	20	OT25FT3	1SCA104884R1001	0.13	0.29
4	30	7.5	15	20	OT25FT4N2	1SCA104900R1001	0.16	0.35
3	40	10	20	25	OT40FT3	1SCA104940R1001	0.13	0.29
4	40	10	20	25	OT40FT4N2	1SCA104956R1001	0.16	0.35
3	60	15	30	30	OT63FT3	1SCA105382R1001	0.28	0.62
4	60	15	30	30	OT63FT4N2	1SCA105393R1001	0.35	0.77
3	80	20	40	40	OT80FT3	1SCA105431R1001	0.28	0.62
4	80	20	40	40	OT80FT4N2	1SCA105499R1001	0.35	0.77
3	30	20	40	40	OT30FT3	1SCA105074R1001	0.44	0.97
4	30	20	40	40	OT30FT4N2	1SCA109443R1001	0.56	1.23
3	60	20	40	40	OT60FT3	1SCA105081R1001	0.44	0.97
4	60	20	40	40	OT60FT4N2	1SCA109444R1001	0.56	1.23
3	100	30	50	50	OT100FT3	1SCA105023R1001	0.44	0.97
4	100	30	50	50	OT100FT4N2	1SCA105031R1001	0.56	1.23

Approvals:

OT16,25,40,63,80: UL 508. CSA 22-2 No.14

OT30,60,100: UL 98. CSA 22-2 No.4

Non-fusible disconnect switches OT160, UL
Ordering information



OT160G03

OT160G non-fusible disconnect switches, base and DIN-rail mounting, UL/CSA
Front and side operation is possible with the same handle and shaft.

Number of poles	Rated operational currents		Type code	Order number	Weight/unit	
	UL98 Listed, 600V	UL 98 Recognized, 600V			kg	lb
	A	A				
3	100	125	OT160G03	1SCA135134R1001	1.1	2.43
4	100	125	OT160G04	1SCA135135R1001	1.3	2.87
3	100	125	OT160G30	1SCA138207R1001	1.1	2.43
4	100	125	OT160G40	1SCA138213R1001	1.3	2.87

Approvals:
UL98, CSA 22-2 No.4



OT160GT04

OT160G non-fusible disconnect switches, door mounting, UL/CSA
Front and side operation is possible with the same handle and shaft.

Number of poles	Rated operational currents		Type code	Order number	Weight/unit	
	UL98 Listed, 600V	UL 98 Recognized, 600V			kg	lb
	A	A				
Door mounted versions						
3	100	125	OT160GT03	1SCA135136R1001	1.2	2.65
4	100	125	OT160GT04	1SCA135137R1001	1.3	2.87
3	100	125	OT160GT30	1SCA138220R1001	1.2	2.65
4	100	125	OT160GT40	1SCA138221R1001	1.3	2.87

Approvals:
UL98, CSA 22-2 No.4

Non-fusible disconnect switches OT200...2000, UL

Ordering information for non-fusible disconnect switches



OT200U03



OT400U03



OT600U03



OT800...1200U03



OT1600...2000U03

Front operated non-fusible disconnect switches, base mounting, UL/CSA

Handle and shaft need to be ordered separately. Terminal bolts are included.

Number of poles	Ampere rating, 600 VAC	Horsepower rating 3-phase			Type	Order number	Weight/ unit	
		240 VAC	480 VAC	600 VAC			kg	lb
	A	HP	HP	HP				
Handle (NEMA 1, 3R, 12, IP65) and shaft have to be ordered separately								
3	200	75	150	200	OT200U03	1SCA022723R0220	1.6	3.5
4	200	75	150	200	OT200U04	1SCA022723R0490	2.0	4.4
3	200	75	150	200	OT200U12	1SCA022752R1890	1.6	3.5
4	200	75	150	200	OT200U22	1SCA022741R8960	2.0	4.4
3	400	125	250	350	OT400U03	1SCA022747R6490	3.0	6.6
4	400	125	250	350	OT400U04	1SCA022748R1060	3.6	7.9
3	400	125	250	350	OT400U12	1SCA022754R6450	3.0	6.6
4	400	125	250	350	OT400U22	1SCA022762R7110	3.6	7.9
3	600	200	450	500	OT600U03	1SCA022798R0730	6.2	13.7
4	600	200	450	500	OT600U04	1SCA022800R1750	7.5	16.5
3	600	200	450	500	OT600U12	1SCA022800R1830	6.2	13.7
4	600	200	450	500	OT600U22	1SCA022800R2130	7.5	16.5
3	800	250	500	500	OT800U03	1SCA105635R1001	18	39.7
4	800	250	500	500	OT800U04	1SCA105636R1001	21	46.3
3	800	250	500	500	OT800U12	1SCA105637R1001	18	39.7
4	800	250	500	500	OT800U22	1SCA105639R1001	21	46.3
3	1200	-	-	-	OT1200U03	1SCA022860R6820	18	39.7
4	1200	-	-	-	OT1200U04	1SCA022860R7040	21	46.3
3	1200	-	-	-	OT1200U12	1SCA105659R1001	18	39.7
4	1200	-	-	-	OT1200U22	1SCA105663R1001	21	46.3
2	1600	-	-	-	OT1600U02	1SCA144197R1001	37	81.6
3	1600	-	-	-	OT1600U03	1SCA144198R1001	52	114.6
4	1600	-	-	-	OT1600U04	1SCA144199R1001	69	152.1
3	1600	-	-	-	OT1600U12	1SCA144200R1001	52	114.6
4	1600	-	-	-	OT1600U13	1SCA144201R1001	69	152.1
4	1600	-	-	-	OT1600U22	1SCA144202R1001	69	152.1
2	2000	-	-	-	OT2000U02	1SCA144203R1001	37	81.6
3	2000	-	-	-	OT2000U03	1SCA117313R1001	52	114.6
4	2000	-	-	-	OT2000U04	1SCA117316R1001	69	152.1
3	2000	-	-	-	OT2000U12	1SCA117332R1001	52	114.6
4	2000	-	-	-	OT2000U13	1SCA117336R1001	69	152.1
4	2000	-	-	-	OT2000U22	1SCA117334R1001	69	152.1

Approvals:
UL 98, CSA 22-2 No. 4

Recommended shafts and handles

Suitable for switches	Shaft	Handle	Terminal bolt kits included
OT200U_	OXp6X210	OHB65J6	M8x25
OT400U_	OXp12X185	OHB95J12	M10x30
OT600U_	OXp12X185	OHB125J12	M12x40
OT800...2000U_	OXp12X280	OHB274J12	M12X60

Non-fusible disconnect switches OT200...600, UL

Ordering information for side operated non-fusible disconnect switches



OT200US03



OT400US03



OT600US03

Side operated non-fusible disconnect switches, base mounting, UL/CSA
Including terminal bolt kit.

Number of poles	Ampere rating	Horsepower rating			Type	Order number	Weight/unit	
		3-phase						
	240 VAC	480 VAC	600 VAC					
	A	HP	HP	HP			kg	lb
Handle and shaft have to be ordered separately								
3	200	75	150	200	OT200US03	1SCA022870R6290	1.755	3.86
4	200	75	150	200	OT200US04	1SCA022870R6370	2.155	4.74
3	400	125	250	350	OT400US03	1SCA022870R6610	3.06	6.73
4	400	125	250	350	OT400US04	1SCA022870R6700	3.56	7.83
3	600	200	400	500	OT600US03	1SCA022870R7000	6.2	13.64
4	600	200	400	500	OT600US04	1SCA022870R7260	6.2	13.64

Approvals:
OT200, 400, 600: UL 98, CSA 22-2 No. 4

Recommended shafts and handles

Suitable for switches	Shaft	Handle	Terminal bolts included as standard
OT200US	OXp6X210	OHB65J6E00S	M8x25
OT400US_600US	OXp12X185	OHB145J12E00S	M10x30

Accessories for non-fusible disconnect switches OT16...160

Ordering information for handle knobs



OHBS1



OHR52



OHBS3



OHR53



OHR59



OHBS11



OHBS12



OHBS16

Handle knobs for base and DIN-rail mounted switches

Mounting directly to the switch, no shaft needed. Packing includes 10pcs.

Type	Order number	Color	Handle length	Weight/ unit
			mm	kg
OHBS1	1SCA109087R1001	Black	31	0.01
OHBS1/1 ¹	1SCA109088R1001	Black	31	0.01
OHBS2	1SCA109089R1001	Black	40	0.01
OHBS2/1 ¹	1SCA109090R1001	Black	40	0.01
OHBS3	1SCA108320R1001	Black	39	0.01
OHBS3/1 ¹	1SCA108319R1001	Black	39	0.01
OHBS9	1SCA108665R1001	Black	72	0.01
OHBS9/1 ¹	1SCA108689R1001	Black	72	0.01
OHBS11	1SCA109092R1001	Black	57	0.01
OHBS12	1SCA108252R1001	Black	37	0.01
OHBS13	1SCA112046R1001	Black	72	0.019
OHBS13/1 ¹	1SCA112047R1001	Black	72	0.019
OHBS14	1SCA152488R1001	Black	40	0.01
OHBS16	1SCA149863R1001	Black	74	0.01
OHR51	1SCA109095R1001	Red	31	0.01
OHR51/1 ¹	1SCA109096R1001	Red	31	0.01
OHR52	1SCA108598R1001	Red	40	0.01
OHR52/1 ¹	1SCA108599R1001	Red	40	0.01
OHR53	1SCA108667R1001	Red	39	0.01
OHR53/1 ¹	1SCA108688R1001	Red	39	0.01
OHR59	1SCA108666R1001	Red	72	0.01
OHR59/1 ¹	1SCA108690R1001	Red	72	0.01
OHR512	1SCA108253R1001	Red	37	0.01
YAST1	1SCA022301R5350	Black	72	0.023

¹Delivery batch 1pc

Direct handles for OT16F...100F_ and OT160G_

		Knob non-padlockable	Knob padlockable	Knob shaft through non-padlockable	Knob shaft through padlockable
Switches 3- and 4-pole	OT16F3/F4 OT25F3/F4 OT40F3/F4	OHBS1, OHR51 OHBS3, OHR53	OHBS7 (3P) OHBS8 (4P)	Standard knob	OHBS12, OHR512
	OT63F3/F4 OT80F3/F4	OHBS1, OHR51 OHBS3, OHR53	OHBS2, OHR52	Standard knob	OHBS14
	OT30F3/F4 OT60F3/F4 OT100F3/F4	OHBS3, OHR53	OHBS2, OHR52	Standard knob	OHBS11 ¹ , OHBS14
	OT160G3/4	YAST1	-	OHBS13, OHR513	OHBS16 ¹
Switches 6- and 8-pole	OT16F6/F8 OT25F6/F8 OT40F6/F8	OHBS3, OHR53	-	Standard knob	OHBS12, OHR512
	OT63F6/F8 OT80F6/F8	OHBS9, OHR59	-	-	OHBS12, OHR512
	OT30F6/F8 OT60F6/F8 OT100F6/F8	OHBS9, OHR59	-	-	OHBS11 ¹

¹Suitable for 3 padlocks with bail diameter 5mm

Accessories for non-fusible disconnect switches OT16...160

Ordering information for handles



OHYS7



OHBS8

Adapter handles, for base and DIN-rail mounted installation switches

Mounting directly to the switch, no shaft needed.

Suitable for switches	Color	Type	Order number	Weight/ unit kg
OT16...25F3, OT40F3	Black	OHBS7	1SCA108546R1001	0.08
	Black	OHBS8	1SCA108545R1001	0.08
	Red	OHYS7	1SCA109852R1001	0.08
	Red	OHYS8	1SCA109862R1001	0.08

Handle type	Shaft through the handle	45mm cut-out enable ¹
OHBS7_, OHRS7_	No	Yes
OHBS8_, OHRS8_	No	Yes

¹In I-position the handle shall remain within the cut-out height

Selector handles for base and DIN-rail mounted switches

For shaft diameter 6mm, door drilling 22.5mm. Indication I-O and ON-OFF.



OHBS3AH



OHYS3AH



OHBS2AJ



OHYS2AJ



OHBS2AJ_EH

Suitable for switches	Color	Type	Order number	Weight/ unit kg
IP54 handles, NEMA 1				
OT16...25F, OT40F, OT63...80F	Black	OHBS1AH	1SCA102680R1001	0.05
	Red-yellow	OHYS1AH	1SCA105290R1001	0.05
Door interlock in ON-position				
OT16...25F, OT40F, OT63...80F	Black	OHBS1AH1	1SCA105210R1001	0.05
	Red-yellow	OHYS1AH1	1SCA105291R1001	0.05
Padlockable with one padlock with bail diameter 5...6.3mm				
OT16...100F	Black	OHBS3AH	1SCA105234R1001	0.05
	Red-yellow	OHYS3AH	1SCA105325R1001	0.05
Padlockable with one padlock with bail diameter 5...6.3mm, door interlock in ON-position				
OT16...100F	Black	OHBS3AH1	1SCA105235R1001	0.05
	Red-yellow	OHYS3AH1	1SCA105326R1001	0.05
IP65 handles, NEMA 1, 3R, 12				
Padlockable with max. 3 padlocks with bail diameter 5...8mm, defeatable door interlock in ON-position, door interlocking in OFF-position when padlocked				
OT16...100F	Black	OHBS2AJ	1SCA105213R1001	0.07
	Red-yellow	OHYS2AJ	1SCA105296R1001	0.07
Padlockable with max. 3 padlocks with bail diameter 5...8mm, door interlock in ON-position				
OT16...100F	Black	OHBS2AJ1	1SCA105215R1001	0.07
	Red-yellow	OHYS2AJ1	1SCA105297R1001	0.07

Selector handle with metal hasp

IP65 handles, NEMA 1, 3R, 12				
Padlockable with max. 3 padlocks, door interlock in the ON-position, defeatable				
OT16...100F	Black	OHBS2AJEH	1SCA108230R1001	0.07
Padlockable with max. 3 padlocks, door interlock in the ON-position, non-defeatable				
OT16...100F	Black	OHBS2AJ1EH	1SCA105217R1001	0.07

Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.

This can be defeated in IP65 types to allow authorized personnel access for inspection. The padlocked handle is not defeatable.

Accessories for non-fusible disconnect switches OT16...160

Ordering information for handles



OHBS3PH, RH



OHYS3PH, RH



OHBS2PJ, RH



OHYS2PJ, RH

Selector handles for door mounted switches

Indication I-O and ON-OFF. No separate shaft needed.

Suitable for switches	Color	Type	Order number	Weight/ unit kg
Snap-on mounting, door drilling 22.5mm				
No padlocking, IP54, NEMA 1				
OT16...25FT, OT40FT	Black	OHBS1PH	1SCA105211R1001	0.05
	Red-yellow	OHYS1PH	1SCA105294R1001	0.05
Padlockable with one padlock, IP54, NEMA 1				
OT16...25FT, OT40FT	Black	OHBS3PH	1SCA105236R1001	0.05
	Red-yellow	OHYS3PH	1SCA105327R1001	0.05
Padlockable with max. 3 padlocks, IP65, NEMA 1, 3R, 12				
OT16...25FT, OT40FT	Black	OHBS2PJ	1SCA105231R1001	0.07
	Red-yellow	OHYS2PJ	1SCA105322R1001	0.07
Screw mounting, hole distance 36mm				
No padlocking, IP54, NEMA 1				
OT16...25FT, OT40FT, OT63...80FT	Black	OHBS1RH	1SCA105212R1001	0.05
	Red-yellow	OHYS1RH	1SCA105295R1001	0.05
Padlockable with one padlock, IP54, NEMA 1				
OT16...25FT, OT40FT, OT63...80FT	Black	OHBS3RH	1SCA105237R1001	0.05
	Red-yellow	OHYS3RH	1SCA105328R1001	0.05
Padlockable with max. 3 padlocks, IP65, hole distance 36/48mm, NEMA 1, 3R, 12				
OT16...100FT	Black	OHBS2RJ	1SCA105232R1001	0.07
	Red-yellow	OHYS2RJ	1SCA105323R1001	0.07

Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.

This can be defeated in IP65 types to allow authorized personnel access for inspection. The padlocked handle is not defeatable.

Accessories for non-fusible disconnect switches OT16...160

Ordering information for handles



OPBS1



OPB2



OPG2



OPS2



OPBS1EN1



OPSS1EN1



OPB2EN1



OPG2EN1



OPS2EN1

Legend plates for selector handles

Color	Type	Order number	Weight/ unit kg
Plain plates for OH 1_ and OH 3_handles			
Black	OPBS1	1SCA111519R1001	0.01
Yellow	OPYS1	1SCA111528R1001	0.01
Silver	OPSS1	1SCA111523R1001	0.01
Grey	OPGS1	1SCA111563R1001	0.01
Plain plates for OH 2_ handles			
Black	OPB2	1SCA022353R4110	0.01
Yellow	OPY2	1SCA022353R4200	0.01
Silver	OPS2	1SCA022353R4460	0.01
Grey	OPG2	1SCA022353R4380	0.01
Printed plates for OH 1_ and OH3_ handles. Text: MAIN SWITCH			
Black	OPBS1EN1	1SCA111520R1001	0.01
Yellow	OPYS1EN1	1SCA111530R1001	0.01
Silver	OPSS1EN1	1SCA111525R1001	0.01
Grey	OPGS1EN1	1SCA111526R1001	0.01
Printed plates for OH 2_ handles. Text: MAIN SWITCH			
Black	OPB2EN1	1SCA022400R2070	0.01
Yellow	OPY2EN1	1SCA022400R2740	0.01
Silver	OPS2EN1	1SCA022400R2230	0.01
Grey	OPG2EN1	1SCA022400R2310	0.01

Accessories for non-fusible disconnect switches OT16...160

Ordering information for handles



OZ331_B



OZ331_RY



OZ371PB

Round padlockable handles for base and DIN-rail mounted switches OT16...100

Padlockable in 0-position, max 3 padlocks with max 8 mm hasp diameter.
Indication I-O and ON-OFF.

Suitable for switches	Color	Type	Order number	Weight/ unit kg
One hole mounting handle, IP65, NEMA 4X outdoor, size 66x66				
OT16...100F	Black	OZ331SPB	1SCA112983R1001	0.05
	Red-yellow	OZ331SPRY	1SCA113097R1001	0.05
IP67, NEMA 4X, size 66x66				
OT16...100F	Black	OZ331P67B	1SCA111427R1001	0.04
	Red-yellow	OZ331P67RY	1SCA111429R1001	0.04
Handles with door coupling in ON-position, not defeatable, IP65, NEMA 4X, size 66x66				
Shaft alignment ring for OZ371P_ handle, see page 9-63.				
OT16...100F	Black	OZ371PB	1SCA111684R1001	0.05
	Red-yellow	OZ371PRY	1SCA111685R1001	0.05

Pistol handle mounting kit for OT30FT, OT60FT, OT100FT and OT160GT switches

Mounting kit OHZX6 consists of door mount handle fixing plate, screws and shaft.
The pistol handle is not included.



OHZX6

Suitable for switches	Color	Type	Order number	Weight/ unit kg
OT30FT, OT60FT, OT100FT, OT160GT	Black	OHZX6	1SCA022559R5670	0.01

Pistol handle for side operated non-fusible switches

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position. Screw fixing from the back side of the handle ensures double insulation.



OHB65J6E00S



OHY65J6E00S

NEMA Type 1/3R/12 (IP65), black and red-yellow: I-O/ON-OFF				
Color	Handle length [mm]	Type	Order number	Weight/ unit [kg]
For shaft diameter 6mm (for OT200US)				
Black	65	OHB65J6E00S	1SCA022382R9850	0.14
Red-yellow	65	OHY65J6E00S	1SCA022382R9930	0.14
For shaft diameter 12mm (for OT400...600US)				
Grey	145	OHB145J12E00S	1SCA022679R9700	0.17

Accessories for non-fusible disconnect switches OT16...2000

Ordering information for handles



OHB45J6

Pistol handle for front operated fusible switches

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position. Screw fixing from the back side of the handle ensures double insulation.



OHY65J6



OHG80J6



OHM65L6



OHB65J6T

For shaft diameter 6mm (for OT16...200)

Color	Handle length (mm)	Type	Order number	Weight/unit (kg)
NEMA Type 1/3R/12 (IP65), black and red-yellow: I-O/ON-OFF, grey: I-O				
Black	45	OHB45J6	1SCA022380R8770	0.13
Black	45	OHB45J6E20	1SCA022643R7200	0.13
Red-yellow	45	OHY45J6	1SCA022380R8930	0.13
Red-yellow	45	OHY45J6E20	1SCA151779R1001	0.13
Grey	45	OHG45J6	1SCA022380R8850	0.13
Black	65	OHB65J6	1SCA022380R9660	0.13
Black	65	OHB65J6E20	1SCA022459R4220	0.13
Red-yellow	65	OHY65J6	1SCA022380R9820	0.13
Red-yellow	65	OHY65J6E20	1SCA022501R4700	0.13
Grey	65	OHG65J6	1SCA022380R9740	0.13
Black	80	OHB80J6	1SCA022381R0240	0.14
Black	80	OHB80J6E20	1SCA022383R4690	0.14
Red-yellow	80	OHY80J6	1SCA022381R0410	0.14
Grey	80	OHG80J6	1SCA022381R0320	0.14
NEMA Type 4/4X (IP66), black, red-yellow and metal: I-O/ON-OFF				
Black	45	OHB45L6	1SCA109848R1001	0.14
Red-yellow	45	OHY45L6	1SCA109849R1001	0.14
Metal	45	OHM45L6	1SCA111295R1001	0.7
Black	65	OHB65L6	1SCA022580R9650	0.14
Black	65	OHB65L6E20	1SCA115611R1001	0.14
Red-yellow	65	OHY65L6	1SCA109850R1001	0.14
Metal	65	OHM65L6	1SCA022739R1070	0.8
Black	80	OHB80L6	1SCA022577R7010	0.16
Red-yellow	80	OHY80L6	1SCA022577R7190	0.16
NEMA Type 1/3R/12 (IP65), black and red-yellow: Test/I-O/ON-OFF, grey: Test/I-O				
Black	45	OHB45J6T	1SCA109870R1001	0.13
Black	65	OHB65J6T	1SCA022399R8110	0.13
Red-yellow	65	OHY65J6T	1SCA022456R9540	0.13
Grey	65	OHG65J6T	1SCA022456R9620	0.13
Black	80	OHB80J6T	1SCA022399R8290	0.14

Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.

The door interlocking can be defeated in IP65 types to allow authorized personnel access for inspection.

The door is interlocked when the non-defeatable handle is padlocked.

E20 Handles padlockable in ON and OFF positions.

Accessories for non-fusible disconnect switches OT16...2000

Ordering information for handles



OHB95J12



OHY125J12



OHG145J12



OHB274J12



OHY330J12



OHB150J12P



OHY200J12P



OHM125L12



OHM175L12



OHY95J12T



OHB125J12T



OHB175J12T

Pistol handle for front operated fusible switches

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position. Screw fixing from the back side of the handle ensures double insulation.

For shaft diameter 12mm (for OT400...2000)

Color	Handle length (mm)	Type	Order number	Weight/unit (kg)
NEMA Type 1/3R/12 (IP65), black and red-yellow: I-O/ON-OFF, grey: I-O				
Black	95	OHB95J12	1SCA022381R0830	0.15
Red-yellow	95	OHY95J12	1SCA022381R1050	0.15
Grey	95	OHG95J12	1SCA022381R0910	0.15
Black	125	OHB125J12	1SCA022381R1560	0.16
Red-yellow	125	OHY125J12	1SCA022381R1720	0.16
Grey	125	OHG125J12	1SCA022381R1640	0.16
Black	145	OHB145J12	1SCA022381R2110	0.17
Black	145	OHB145J12E20	1SCA022399R8450	0.17
Red-yellow	145	OHY145J12	1SCA022381R2370	0.17
Grey	145	OHG145J12	1SCA022381R2290	0.17
Black	175	OHB175J12	1SCA022381R2450	0.20
Black	175	OHB175J12E20	1SCA105762R1001	0.20
Red-yellow	175	OHY175J12	1SCA022381R2700	0.20
Grey	175	OHG175J12	1SCA022381R2610	0.20
Black	274	OHB274J12	1SCA115920R1001	0.42
Black	274	OHB274J12E20	1SCA120919R1001	0.42
Red-yellow	274	OHY274J12	1SCA115919R1001	0.42
Black	330	OHB330J12	1SCA115922R1001	0.60
Black	330	OHB330J12E20	1SCA140458R1001	0.60
Red-yellow	330	OHY330J12	1SCA115921R1001	0.60
Black	2X 150	OHB150J12P	1SCA022865R9430	0.44
Red-yellow	2X 150	OHY150J12P	1SCA101586R1001	0.44
Black	2X 200	OHB200J12P	1SCA022865R9510	0.50
Red-yellow	2X 200	OHY200J12P	1SCA101587R1001	0.50
NEMA Type 4/4X (IP66), black, red-yellow and metal: I-O/ON-OFF				
Black	125	OHB125L12	1SCA022577R7350	0.17
Metal	125	OHM125L12	1SCA022739R1150	0.80
Black	145	OHB145L12	1SCA022577R7510	0.18
Red-yellow	145	OHY145L12	1SCA022577R7600	0.18
Black	175	OHB175L12	1SCA022577R7780	0.20
Red-yellow	175	OHY175L12	1SCA022577R7860	0.20
Metal	175	OHM175L12	1SCA022739R1230	0.90
Black	274	OHB274L12	1SCA120238R1001	0.24
Black	330	OHB330L12	1SCA120256R1001	0.60
Black	2X 200	OHB200L12P	1SCA111564R1001	0.50
Red-yellow	2X 200	OHY200L12P	1SCA111569R1001	0.50
NEMA Type 1/3R/12 (IP65), black and red-yellow: Test/I-O/ON-OFF				
Black	95	OHB95J12T	1SCA022736R1750	0.15
Red-yellow	95	OHY95J12T	1SCA022736R1910	0.15
Black	125	OHB125J12T	1SCA022652R2220	0.16
Red-yellow	125	OHY125J12T	1SCA022652R2310	0.16
Black	145	OHB145J12T	1SCA022652R2570	0.17
Red-yellow	145	OHY145J12T	1SCA022652R2650	0.17
Black	175	OHB175J12T	1SCA022708R0740	0.20
Black	274	OHB274J12T	1SCA120250R1001	0.42
Black	330	OHB330J12T	1SCA120252R1001	0.60
Black	2X 200	OHB200J12PT	1SCA106510R1001	0.50

Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position. The door interlocking can be defeated in IP65 types to allow authorized personnel access for inspection. The door is interlocked when the non-defeatable handle is padlocked. E20 Handles padlockable in ON and OFF positions.

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for handles



OTV400EK



OTV1000EK



OTVY400EK

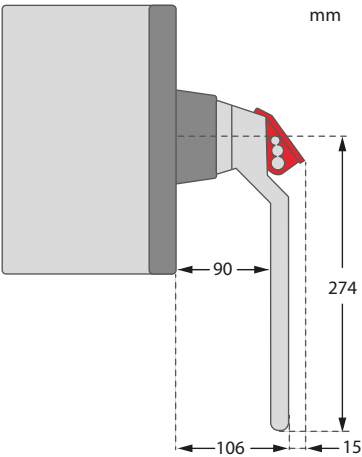


OTV1000EPK

Direct mount handles
Includes a shaft and a mechanism cover. Indication Test-OFF-ON/Test-O-I.
Padlockable with three padlocks in OFF-position.

Suitable for switches	Color	Handle length	Type	Order number	Weight/ unit
		mm			kg
OT200U	Black	65	OTV250EK	1SCA022763R2700	0.10
	Red-yellow	65	OTVY250EK	1SCA022772R7910	0.10
OT400U	Black	95	OTV400EK	1SCA022763R2960	0.20
	Red-yellow	95	OTVY400EK	1SCA022772R7830	0.20
OT600U	Black	145	OTV800EK	1SCA022804R6340	0.30
	Red-yellow	145	OTVY800EK	1SCA022810R2780	0.30
OT800...2000U	Black	274	OTV1000EK	1SCA106608R1001	0.75
OT800...2000U	Black	2x200	OTV1000EPK	1SCA121085R1001	0.90

OTV1000EK dimensions



Accessories for non-fusible disconnect switches OT16...160

Ordering information for shafts



Selector handle 6mm shafts (for OT16...160)

Shaft length [mm]	Type	Order number	Weight/unit [kg]
53	OXS6X53	1SCA101641R1001	0.01
57	OXS6X57	1SCA101643R1001	0.02
73	OXS6X73	1SCA101645R1001	0.02
85	OXS6X85	1SCA101647R1001	0.02
95	OXS6X95	1SCA101650R1001	0.03
100	OXS6X100	1SCA101651R1001	0.03
105	OXS6X105	1SCA108043R1001	0.03
109	OXS6X109	1SCA101652R1001	0.03
115	OXS6X115	1SCA101649R1001	0.03
117	OXS6X117	1SCA101648R1001	0.03
120	OXS6X120	1SCA101654R1001	0.04
130	OXS6X130	1SCA101655R1001	0.04
150	OXS6X150	1SCA108250R1001	0.04
160	OXS6X160	1SCA101656R1001	0.05
180	OXS6X180	1SCA101659R1001	0.05
237	OXS6X237	1SCA101658R1001	0.06
250	OXS6X250	1SCA101660R1001	0.06
330	OXS6X330	1SCA101661R1001	0.10
455	OXS6X455	1SCA101662R1001	0.12



Round padlockable handle 6mm shafts (for OT16...160)

Shaft length [mm]	Type	Order number	Weight/unit [kg]
60	OX6X60	1SCA111459R1001	0.02
85	OX6X85	1SCA111274R1001	0.02
105	OX6X105	1SCA111930R1001	0.03
115	OX6X115	1SCA111931R1001	0.03
130	OX6X130	1SCA111460R1001	0.03
155	OX6X155	1SCA111275R1001	0.04
200	OX6X200	1SCA111932R1001	0.06
300	OX6X300	1SCA111933R1001	0.08

Accessories for non-fusible disconnect switches OT16...2000

Ordering information for shafts



EXP6X_

Pistol handle 6mm shafts (for OT16...200)

Shaft length [mm]	Type	Order number	Weight/unit [kg]
57	EXP6X57	1SCA125050R1001	0.01
63	EXP6X63	1SCA111010R1001	0.02
87	EXP6X87	1SCA109421R1001	0.02
90	EXP6X90	1SCA022064R1180	0.03
108	EXP6X108	1SCA125762R1001	0.03
130	EXP6X130	1SCA022057R0570	0.04
150	EXP6X150	1SCA022295R5600	0.05
158	EXP6X158	1SCA122303R1001	0.05
161	EXP6X161	1SCA022067R1760	0.05
170	EXP6X170	1SCA108224R1001	0.05
210	EXP6X210	1SCA022295R6080	0.06
265	EXP6X265	1SCA108225R1001	0.08
290	EXP6X290	1SCA022042R6370	0.08
310	EXP6X310	1SCA022720R5710	0.09
360	EXP6X360	1SCA022042R6530	0.10
400	EXP6X400	1SCA108226R1001	0.12
430	EXP6X430	1SCA022056R6030	0.12
500	EXP6X500	1SCA109416R1001	0.14
700	EXP6X700	1SCA022131R9580	0.19



EXP12X_

Pistol handle 12mm shafts (for OT400...2000)

Shaft length [mm]	Type	Order number	Weight/unit [kg]
166	EXP12X166	1SCA022325R7100	0.18
185	EXP12X185	1SCA022325R6710	0.20
220	EXP12X220	1SCA022063R9610	0.24
250	EXP12X250	1SCA022325R6980	0.30
280	EXP12X280	1SCA022137R5140	0.30
325	EXP12X325	1SCA022042R5810	0.36
395	EXP12X395	1SCA022042R5990	0.43
465	EXP12X465	1SCA022042R6020	0.51
535	EXP12X535	1SCA022042R6110	0.59
625	EXP12X625	1SCA022139R0020	0.70

Accessories for non-fusible disconnect switches OT16...2000

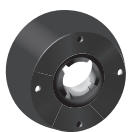
Ordering information for shaft accessories



OZG71



OHZX10



OHZX14



OETLZX58



OXT20X210X



OHZX19

Shaft alignment ring

Improves the alignment between handle and shaft.

Suitable for handle	Color	Type	Order number	Weight/ unit kg
Selector handles OH_1...3	Black	OHZX11	1SCA022708R3170	0.23
Round padlockable handle OZ371P_	Black	OZG71	1SCA111686R1001	0.05
Pistol handles OH_65...275J6...12	Black	OHZX10	1SCA022661R3610	0.23

Extension ring for pistol handles

Improves the handle operation by increasing the distance between the operating handle and the panel.

Suitable for handle	Color	Type	Order number	Weight/ unit kg
OHB_	Black	OHZX14	1SCA022851R6590	0.06

Shaft support for long shafts

Suitable for switches	Shaft compatibility	Type	Order number	Weight/ unit kg
OT16...125F	6mm, longer than 400mm	OETLZX58	1SCA022068R8220	0.10
OT1200...2000	12mm, longer than 280mm	OXT20X210X	1SCA103684R1001	1.50

Overturn protection

The accessory package contains locking features that restrict operation more than 90 degree.

Suitable for shafts	Type	Order number	Weight/ unit kg
EXP12X_	OHZX19	1SCA157090R1001	0.25

Accessories for non-fusible disconnect switches OT16...160

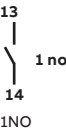
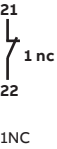
Ordering information for auxiliary contacts



OA1G_



OA2G11



Auxiliary contact blocks for OT16...160, IP20				
Contact numbering according to EN 50013. Snap-on mounting to the side of the switch. I _{th} = 16 A, cable cross section max. 2 x 2.5mm ² . Early-break type OA1G10. Early break type auxiliary contacts means that in the switches, the NO aux. contacts break before the main contacts open.				
Suitable for switches	Function	Type	Order number	Weight/ unit kg
Mountable on left side, max. 2 pcs				
OT16...100F/FT	1NC	OA1G01	1SCA022353R4890	0.03
	1NC	OA1G01AU ¹	1SCA022436R7830	0.03
Mountable on the right side, max. 2 pcs				
OT16...100F/FT	1NO	OA1G10	1SCA022353R4970	0.03
	1NO	OA1G10AU ¹	1SCA022436R7910	0.03
Mountable, max. 4 pcs				
OT160G/GT	1NC	OA1G01	1SCA022353R4890	0.03
	1NC	OA1G01AU ¹	1SCA022436R7830	0.03
Mountable, max. 4 pcs				
OT160G/GT	1NO	OA1G10	1SCA022353R4970	0.03
	1NO	OA1G10AU ¹	1SCA022436R7910	0.03
Mountable on both sides, simultaneous function with the main contacts				
OT16...25F, OT40F: max. 2NO+2NC, OT30F, OT60...100F: max. 4NO+4NC ³				
OT16...100	1NO+1NC	OA2G11 ²	1SCA022379R8100	0.03

¹Types _AU are gold plated for extremely difficult circumstances and low voltages.
²Not mountable on the same side as the fourth pole.
³Contact numbering:

(83) (43) (53) 13
(84) (44) (54) 14

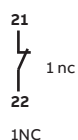
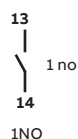
21 (61) (31) (71)
22 (62) (32) (72)

Accessories for non-fusible disconnect switches OT200...2000

Ordering information for auxiliary contacts



OA1G10, OA3G01



OEA28

Video: Auxiliary contacts installation



<https://www.youtube.com/watch?v=wZY428-W5sc&feature=youtu.be>

Video: Installation of OEA28 – Module for auxiliary contacts



<https://www.youtube.com/watch?v=j4wb659WZE&feature=youtu.be>

Auxiliary contact blocks for OT200...2000, IP20

Contact numbering according to EN 50013. Early break type auxiliary contacts means that in the switches, the NO aux.contacts break before the main contacts open.

In types with auxiliary contacts mountable under the mechanism cover, the "test" contacts operate in ON- and OFF-positions as well as when the handle is turned to TEST-position (45° over the OFF-position). The "test indication" contacts operate only when the handle is turned to TEST-position. The OA1G10 (N.O.) or OA3G01 (N.C.) auxiliary contact blocks can be used as standard auxiliary contacts, "test" or "test indication" contacts. The desired functions are achieved when an auxiliary contact block is installed in a specific place (see mounting instructions). In order to activate the "test" and "test indication" features a handle with test function is required. The test contacts can be used as standard auxiliary contacts as well.

Suitable for switches	Function	Type	Order number	Weight/ unit kg
Mounting on the left side of the switch				
Max. 8 auxiliary contact blocks with the OEA28 module				
OT200...2000U	1NO	OA1G10	1SCA022353R4970	0.03
	1NO	OA1G10AU ¹	1SCA022436R7910	0.03
	1NC	OA3G01	1SCA022456R7410	0.03
	1NC	OA3G01AU ¹	1SCA022819R5260	0.03
Mounting under the mechanism cover				
Max. 4 test contacts or 2 test contacts + 2 test indication contacts				
OT200U	1NO, early break	OA1G10	1SCA022353R4970	0.03
	1NO, early break	OA1G10AU ¹	1SCA022436R7910	0.03
	1NC, early make	OA3G01	1SCA022456R7410	0.03
	1NC, early make	OA3G01AU ¹	1SCA022819R5260	0.03
Max. 4 test contacts + 4 test indication contacts				
OT400...600U	1NO, early break	OA1G10	1SCA022353R4970	0.03
	1NO, early break	OA1G10AU ¹	1SCA022436R7910	0.03
	1NC, early make	OA3G01	1SCA022456R7410	0.03
	1NC, early make	OA3G01AU ¹	1SCA022819R5260	0.03
Max 4 test indication contacts + 6 test contacts + 2 early operation test contacts				
OT800...2000U	1NO, early break	OA1G10	1SCA022353R4970	0.03
	1NO, early break	OA1G10AU ¹	1SCA022436R7910	0.03
	1NC, early make	OA3G01	1SCA022456R7410	0.03
	1NC, early make	OA3G01AU ¹	1SCA022819R5260	0.03

¹Types _AU are gold plated for extremely difficult circumstances and low voltages.

Module for auxiliary contacts with OT200...2000

Screw mounting to the left side of the switch.

Suitable for switches	Type	Order number	Weight/ unit kg
OT200...2000	OEA28	1SCA022714R8810	0.04

Does not fit side operated switches.

Accessories for non-fusible disconnect switches OT16...100

Ordering information for fourth poles



OTPS60FP



OTPS40FDN1



OTPL80FP



OTPL125FD

Fourth poles, simultaneous function with the main contacts OT16...100

Mountable on the side of the 3-pole switch frame.

Suitable for switches	Type	Order number	Weight/ unit kg
For DIN rail and base mounted switches			
OT16...25F3/F6, OT40F3/F6	OTPS40FPN1 ¹	1SCA105001R1001	0.03
	OTPS40FPN2 ¹	1SCA105000R1001	0.06
OT63...80F3/F6	OTPS80FP	1SCA105461R1001	0.14
OT30F3/F6, OT60F3/F6	OTPS60FP	1SCA111009R1001	0.30
OT100F3/F6	OTPS125FP	1SCA105099R1001	0.30
For door mounted switches			
OT16...25FT3, OT40FT3	OTPS40FDN1 ¹	1SCA104999R1001	0.06
	OTPS40FDN2 ¹	1SCA104998R1001	0.14
OT63...80FT3	OTPS80FD	1SCA105458R1001	0.30
OT30FT3, OT60FT3	OTPS60FD	1SCA111008R1001	0.30
OT100FT3	OTPS125FD	1SCA105096R1001	0.30

Fourth poles, late-break and early-make

Mountable on the side of the switch. There is a time difference between the main poles and the fourth pole.

Suitable for switches	Type	Order number	Weight/ unit kg
For OT switch-disconnectors			
OT16...25F3/F6, OT40F3/F6	OTPL40FP	1SCA105717R1001	0.03
OT63...80F3/F6	OTPL80FP	1SCA105452R1001	0.06
OT30F3/F6, OT60F3/F6	OTPL60FP	1SCA111004R1001	0.06
OT100F3/F6	OTPL125FP	1SCA105090R1001	0.14
For door mounted switches			
OT16...25FT3, OT40FT3	OTPL40FD	1SCA105716R1001	0.03
OT63...80FT3	OTPL80FD	1SCA105451R1001	0.06
OT30FT3, OT60FT3	OTPL60FD	1SCA111004R1001	0.06
OT100FT3	OTPL125FD	1SCA105088R1001	0.14

¹N1=On the left side of the switch

N2=On the right side of the switch

Accessories for non-fusible disconnect switches OT16...2000

Ordering information for neutrals



OTPD40FP



OTPD80FP



OTPD80FD



OXN250



OXN400



OXN1250T

Fixed neutral

Mountable on the side of the switch

Suitable for switches	Type	Order number	Weight/ unit kg
For base mounted switches			
OT16...25F3/F6, OT40F3/F6	OTPN40FP	1SCA104997R1001	0.03
OT63...80F3/F6	OTPN80FP	1SCA105457R1001	0.06
OT30F3/F6, OT60F3/F6	OTPN60FP	1SCA117606R1001	0.14
OT100F3/F6	OTPN125FP	1SCA105094R1001	0.14
For door mounted switches			
OT16...25FT3, OT40FT3	OTPN40FD	1SCA105718R1001	0.03
OT63...80FT3	OTPN80FD	1SCA105456R1001	0.06
OT30FT3, OT60FT3	OTPN60FD	1SCA111005R1001	0.14
OT100FT3	OTPN125FD	1SCA105092R1001	0.14

Neutral pole

Suitable for switches UL, including phase barrier	Type	Order number	Weight/ unit kg
OT200U	OTZ200U	1SCA151734R1001	0.35
OT400U	OTZ400U	1SCA151735R1001	0.59
OT600U	OTZ600U	1SCA151736R1001	1.70
OT800...1200U	OTZ1200U	1SCA151733R1001	4.54

Detachable neutral

Mountable on the side of the switch

Suitable for switches	Type	Order number	Weight/ unit kg
For DIN rail and base mounted switches			
OT16...40F3/F6	OTPD40FP	1SCA104994R1001	0.03
OT63...80F3/F6	OTPD80FP	1SCA105445R1001	0.06
OT30...60F3/F6	OTPD60FP	1SCA111014R1001	0.14
OT100...125F3/F6	OTPD125FP	1SCA105083R1001	0.14
For door mounted switches			
OT63...80FT3	OTPD80FD	1SCA105444R1001	0.06

Neutral links

Detachable, mountable separately to the base plate.

Suitable for switches	I _{th}	Type	Order number	Weight/ unit kg
	A			
OT200U	250	OXN250	1SCA022752R9950	0.26
OT400U	400	OXN400	1SCA022770R3060	0.70
OT600U	800	OXN800T	1SCA022829R0840	0.96
OT800...1200U	1250	OXN1250T	1SCA104162R1001	2.20

Accessories for non-fusible disconnect switches OT16...2000

Ordering information for earth terminals and phase separators



OTPE40FP



OTPE125FP



OTPE125FD



OTB_

Protective earth
Mountable on the side of the switch

Suitable for switches	Type	Order number	Weight/ unit kg
For OT switch-disconnectors			
OT16...40F3/F4/F6	OTPE40FP	1SCA104995R1001	0.03
OT63...80F3/F4/F6	OTPE80FP	1SCA105448R1001	0.06
OT30...60F3/F4/F6	OTPE60FP	1SCA111016R1001	0.14
OT100...125F3/F4/F6	OTPE125FP	1SCA105128R1001	0.14
For door mounted switches			
OT16...40FT_	OTPE40FD	1SCA109884R1001	0.03
OT63...80FT_	OTPE80FD	1SCA105446R1001	0.06
OT30...60FT_	OTPE60FD	1SCA111015R1001	0.14
OT100...125FT_	OTPE125FD	1SCA105698R1001	0.14

Phase separators
Grey plastic plate for maintaining 1 in/25.44mm clearance between the phases without terminal shrouds. Snap-on mounting.

Suitable for switches	Type	Order number	Units/ type pcs	Weight/ type kg
OT600U, 3- and 4-pole	OTB800/6	1SCA022821R7760	6	0.35
OT800...1200U, 3- and 4-pole	OTB1600/6	1SCA100768R1001	6	0.50
OT1600...2000U, 3- and 4-pole	OTB1600/6C	1SCA104661R1001	12	0.74

Accessories for non-fusible disconnect switches OT16...160

Ordering information for terminal shrouds



OTS40T3



OTS63T3



OTS125T3



OTS125T3P



OTS63T1



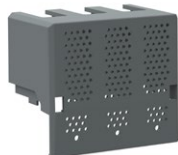
OTS125T1



OTS40T1



OTS125T1P



OTS160G1L3



OTS160G1L4

Terminal shrouds for OT switches, snap-on mounting, transparent IP2X

Suitable for switches	Type	Order number	Weight/ unit kg
For 3-pole OT switches			
OT16/25/40F3, FT3	OTS40T3	1SCA105317R1001	0.01
OT63...80F3, FT3	OTS63T3	1SCA022353R6750	0.01
OT30/60/100F3, FT3	OTS125T3	1SCA022379R9680	0.01
For 3-pole OT160G_ switches. Suitable also when provided with terminal clamps OZXT2 or OZXT3			
OT160G, GT	OTS160G1L3	1SCA140414R1001	0.02
For 3-pole OT switches, suitable also when provided with terminal clamps OZXL1 or OZXT1			
OT30/60/100F3	OTS125T3P	1SCA022491R9890	0.01
For 1 to 4-pole OT switches, shroud for single pole and for fourth pole			
OTP_40F_	OTS40T1	1SCA105314R1001	0.01
OTP_80F_	OTS63T1	1SCA022353R6910	0.01
OTP_125F_	OTS125T1	1SCA022379R9760	0.01
For 1 to 4-pole OT switches with terminal clamps OZXL1 or OZXT1, shroud for single pole and for fourth pole			
OT30/60/100F	OTS125T1P	1SCA022491R9970	0.01
For 4-pole OT160G_ switches. Suitable also when provided with terminal clamps OZXT2 or OZXT3			
OT160G, GT	OTS160G1L4	1SCA140415R1001	0.03

Accessories for non-fusible disconnect switches 200-2000

Ordering information for terminal shrouds



OTS400G1S



OTS800G1S



OTS1600G1L



OTS1600G1S

Terminal shrouds for OT switches, snap-on mounting, grey

Pack of single pole shrouds, IP3X. Transparent shrouds available on request.

Suitable for switches	Dimension Height	Type	Order number	Units/type	Weight/type
	mm			pcs	kg
For 3-pole OT switches					
OT200U	83	OTS250G1L/3 ¹	1SCA022731R8150	3	0.09
	35.5	OTS250G1S/3 ¹	1SCA022731R8310	3	0.06
OT400U	51.5	OTS400G1S/3 ¹	1SCA022736R9060	3	0.15
	126	OTS400G1L/3 ¹	1SCA022736R8840	3	0.09
OT600U	138.6	OTS800G1L/3 ¹	1SCA022776R7890	3	0.32
	61.5	OTS800G1S/3 ¹	1SCA022776R8190	3	0.17
OT800...1200U	158.5	OTS1600G1L/3 ¹	1SCA022871R9510	3	0.60
	96.9	OTS1600G1S/3 ¹	1SCA022871R9600	3	0.40
For 4-pole OT switches					
OT200U	83	OTS250G1L/4 ¹	1SCA022731R8230	4	0.12
	35.5	OTS250G1S/4 ¹	1SCA022731R8400	4	0.08
OT400U	51.5	OTS400G1S/4 ¹	1SCA022736R9650	4	0.20
	126	OTS400G1L/4 ¹	1SCA022736R9490	4	0.12
OT600U	138.6	OTS800G1L/4 ¹	1SCA022776R7970	4	0.42
	61.5	OTS800G1S/4 ¹	1SCA022776R8270	4	0.26
OT800...1200U	158.5	OTS1600G1L/4 ¹	1SCA022871R9780	4	0.80
	96.9	OTS1600G1S/4 ¹	1SCA022871R9860	4	0.50

¹L= long type, S= short type

Shrouds for terminal clamps

Snap-on mounting, transparent plastic, IP2X.

Suitable for terminal clamps	Type	Order number	Units/type	Weight/unit
			pcs	kg
OZXB2, 2L	OZXB2K	1SCA022264R0010	3	0.05
OZXB3, 4	OZXB3K	1SCA022264R0440	3	0.20
OZXB5, 6	OZXB4K	1SCA022199R2850	3	0.24
OZXB7, 7L	OZXB5K	1SCA022283R8040	3	0.13

Accessories for non-fusible disconnect switches OT16...1200

Ordering information for terminal clamps



OZXT1



OZXT2

Terminal clamp sets for Al- and Cu-cables, insulated versions

Suitable for switches	Cable cross section	Type	Order number	Weight/ unit
	mm ²			kg
OT63...80	16...50 Al, 2.5...50 Cu	OZXT1 ¹	1SCA022469R6310	0.05
OT100...160	16...120 Al/Cu	OZXT2	1SCA022620R7200	0.21
OT100...160	2x(16...50) Al/Cu	OZXT3	1SCA022639R0720	0.21

¹I_n = 63A

More information on Al/Cu terminal clamps, see the catalogue OZX1A GB.



OZXB1L



OZXB2

Terminal clamp sets for Al- and Cu-cables

Suitable for switches	Cable cross section	Suitable shroud type	Terminal clamp type	Order number	Units/ type	Weight/ unit
	mm ²				pcs	kg

OZXB type Al/Cu connectors made of stainless steel

OT200U	10...70	OTS250_L	OZXB1L	1SCA022169R2030	3	0.15
	25...120	OZXB2K	OZXB2	1SCA022119R7610	3	0.34
	25...120	OZXB2K	OZXB2L	1SCA022158R7750	3	0.43
	95...185	OTS250_L	OZXB8	1SCA022744R1510	3	0.50
	95...240	OTS250_L	OZXB9	1SCA022750R3210	3	0.50
OT400U	25...120	OZXB2K	OZXB2L	1SCA022158R7750	3	0.43
	95...185	OZXB3K	OZXB3	1SCA022136R8100	3	1.28
	2x(95...185)	OZXB3K	OZXB4	1SCA022137R4760	3	1.71
	120...240	OZXB5K	OZXB7	1SCA022185R0040	3	1.00
	120...240	OZXB5K	OZXB7L	1SCA022185R7130	3	1.20
	95...185	OTS400_L	OZXB8	1SCA022744R1510	3	0.50
	95...240	OTS400_L	OZXB9	1SCA022750R3210	3	0.50
OT600U	120...300	OZXB4K	OZXB5	1SCA022137R2470	3	2.22
	2x(120...300)	OZXB4K	OZXB6	1SCA022137R4920	3	3.03
OT800...1200U	95...185	OTS1600_L	OZXB3	1SCA022136R8100	3	1.28
	2x(95...185)	OTS1600_L	OZXB4	1SCA022137R4760	3	1.71
	120...300	OTS1600_L	OZXB5	1SCA022137R2470	3	2.22
	2x(120...300)	OTS1600_L	OZXB6	1SCA022137R4920	3	3.03
	120...240	OTS1600_L	OZXB7L	1SCA022185R7130	3	1.20



OZXB2L



OZXB3



OZXB4



OZXB7



OZXB8



OZXB9



OZXB5



OZXB6

Accessories for non-fusible disconnect switches OT200...2000

Ordering information for terminal lugs



OZXA200



OZXA400



OZXA800



OZXA1200

Terminal lug kits for Al- and Cu-cables for UL/CSA disconnect switches
One kit includes 6 pcs.

Suitable for switches	Cable cross section	Type	Tightening torque	Weight/ unit	
			lb.in/Nm	kg	in
OT200U_	AWG 4 - 300 MCM	OZXA-200	275/31.1	0.04	0.09
OT400U_	AWG 2 - 600 MCM	OZXA-400	375/42.4	0.05	0.12
OT600...800U_	2X AWG 2 - 600 MCM	OZXA-800	500/56.5	0.21	0.45
OT800U, OT1200...2000U_	4X AWG 2 - 600 MCM	OZXA-1200	500/56.5	0.45	0.98

For ordering, please consult us.

Technical data for terminal lugs

Description	
UL approval file	E6207
Temperature Rating, °C	75
Wire tightening Type of tool	Allen (Hex) wrench
Lug mounting	Bolt & nut mounting
AWG (American Wire Gauge) wire class	B.C

Accessories for non-fusible disconnect switches OT16...600

Ordering information for conversion kits



OWP6D40



OWP6D80



OWP6D125



OTZW8



OESAZW2



OWC6D40



OWC6D125



OESAZW1

6- and 8-pole switch mechanism

Suitable for switches	Shaft distance	Type	Order number	Weight/ unit
	mm			kg

Parallel attachment for connecting two 3- or 4-pole switches

The switches work simultaneously. Mounting directly on the top of two switch-disconnectors, snap-on mounting. The switch size is printed on stickers for the different switch sizes. The fourth pole or auxiliary contacts can be mounted on the outer side of the combination.

OT16...25, OT40	-	OWP6D40	1SCA022865R4800	0.03
OT63...80	-	OWP6D80	1SCA022865R5010	0.03
OT30, OT60, OT100	-	OWP6D125	1SCA022865R5100	0.03
OT160G	-	OESAZW2	1SCA022078R1600	0.80

Attachment levers for connecting two 3- or 4-pole switches

Attachment levers provided with holes, enabling different shaft distances.

The combination of 3- or 4-pole switches can be mounted either horizontally or vertically.

OT16...25, OT40	45+(0...12)x15	OTZW8	1SCA022421R7600	0.17
OT63...80	60+(0...11)x15	OTZW8	1SCA022421R7600	0.17
OT30, OT60, OT100	75+(0...10)x15	OTZW8	1SCA022421R7600	0.17
OT200U	45+(0...13)x15	OESAZW2	1SCA022078R1600	0.80
OT400...600U	60+(0...19)x20	OETLZW9	1SCA022061R3300	1.10

See the table of the handles and shafts included in the conversion kits on page 9-75.

Change-over switch mechanism

Two switches (3- or 4-pole) are connected with a mechanism operating between I-O-II-positions. The modular change-over switches can be built by adding a compact snap-on kit on the top of two switch-disconnectors. The kits do not require any additional foot print area, only the height is increased 12mm.

Suitable for switches	Shaft distance	Type	Order number	Weight/ unit
	mm			kg

Change-over kits

OT16...25, OT40	-	OWC6D40	1SCA022865R4550	0.03
OT63...80	-	OWC6D80	1SCA022865R4630	0.07
OT30, OT60, OT100	-	OWC6D125	1SCA104494R1001	0.09

Attachment levers

OT16...160	90+(0...10)x15	OESAZW1	1SCA022064R3710	0.78
OT160, OT200U	210+(0...18)x20	OTZW25	1SCA022778R6920	2.80
OT400U	210+(0...11)x20	OETLZW11	1SCA022078R0030	3.00
OT600U	210+(0...20)x20	OETLZW12	1SCA022078R0200	4.60

See the table of the handles and shafts included in the conversion kits on page 9-75.

Accessories for non-fusible disconnect switches OT16...2000

Ordering information for conversion kits



OTZW17



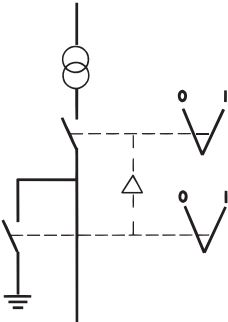
OTZW26



OTZW24



OETLZW14



Mechanical interlock

By-pass switch mechanism

A combination of two switches in parallel with a third switch for change-over operation to by-pass, for example, a breaker for maintenance. Three 3- or 4-pole switches needed. The mechanism is lockable in O-position.

Suitable for switches	Shaft distance	Type	Order number	Weight/ unit kg
	mm			
OT16...125	Between 1 and 2: 90+(0...6)x15 Between 1 and 3: 90+(0...10)x15	OTZW17	1SCA022387R1620	0.88
OT160, OT200U	Between 1 and 2: 210+(0...9)x20 Between 1 and 3: 250+(0...9)x20	OTZW26	1SCA022778R7060	3.30
OT400...600U	Between 1 and 2: 210+(0...18)x20 Between 1 and 3: 250+(0...18)x20	OETLZW13	1SCA022078R0460	4.00

See the table of the handles and shafts included in the conversion kits on page 9-75.

Mechanical interlock mechanism

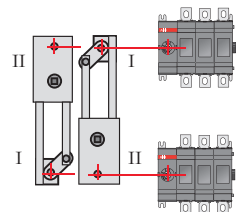
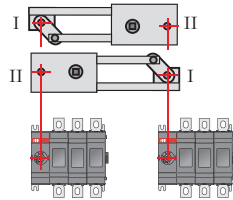
Prevents one switch from moving to ON-position, if the other is not in OFF-position. When mounted upside down, prevents one switch from moving to OFF-position, if the other is not in ON-position. (UPS-usage, make-before-break).

Suitable for switches	Shaft distance	Type	Order number	Weight/ unit kg
	mm			
OT16...100	100	OTZW24	1SCA022639R5610	0.08
OT160G	-	OTZW10	1SCA022431R5280	1.00
OT200U	190	OTZW10	1SCA022431R5280	0.40
OT400U	250	OETLZW14	1SCA022077R3410	0.70
OT400...600U	300	OETLZW3	1SCA022049R0380	0.80
OT400...2000U	500	OETLZW15	1SCA022081R9340	1.24

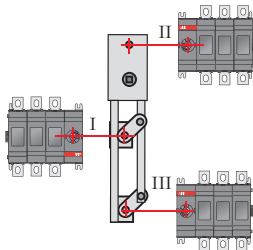
See the table of the handles and shafts included in the conversion kits on page 9-75.

Accessories for non-fusible disconnect switches OT16...2000

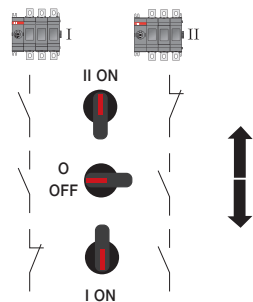
Ordering information for conversion kit accessories



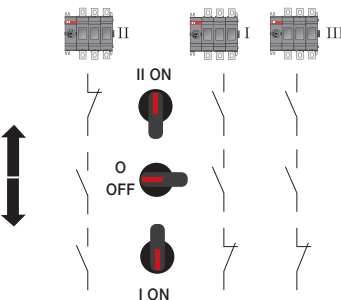
Change-over switches



Bypass switches



Change-over switches



Bypass switches

Shafts and handles for conversion kits

Conversion kit type	Suitable for switches	To be ordered separately		Included in conversion kit delivery		The standard handle / shaft of one of the combined switches can be used	
		Shaft	Handle	Shaft	Handle	Shaft	Handle
6- and 8-pole switches							
OWP6D40	OT16...25, OT40	x	OHBS1A_	-	-	-	-
OWP6D80	OT63...80	x	OHBS1A_	-	-	-	-
OWP6D125	OT30, OT60, OT100	x	OHBS1A_	-	-	-	-
OWP6D40	OT16...25, OT40	x	OHBS1A_	-	-	-	-
OWP6D80	OT63...80	x	OHBS1A_	-	-	-	-
OWP6D125	OT30, OT60, OT100	x	OHBS1A_	-	-	-	-
OTZW8	OT16...100	x	x	-	-	-	-
OESAZW2	OT160...200	-	-	x (2 pcs)	OHBS1A_	-	-
OESAZW9	OT400...600U	-	-	-	-	x	x
Change-over switches							
OWC6D40	OT16...25, OT40	x	OHBS2AJE011	-	-	-	-
OWC6D80	OT63...80	x	OHBS2AJE011	-	-	-	-
OWC6D125	OT30, OT60, OT100	x	OHBS2AJE011	-	-	-	-
OWC6D40	OT16...25, OT40	x	OHBS2AJE011	-	-	-	-
OWC6D80	OT63...80	x	OHBS2AJE011	-	-	-	-
OWC6D125	OT30, OT60, OT100	x	OHBS2AJE011	-	-	-	-
OESAZW1	OT160	-	-	-	-	x	x
OTZW25	OT200U	-	-	x (2 pcs)	OHBS2AJE011	-	-
OETLZW11	OT400U	-	-	x (2 pcs)	OHBS2AJE011	-	-
OETLZW12	OT600U	-	-	x (2 pcs)	YASDA21	-	-
By-pass switches							
OTZW17	OT16...160	-	-	x (3 pcs)	OHBS2AJE011	-	-
OTZW26	OT200U	-	-	x (3 pcs)	OHBS2AJE011	-	-
OETLZW13	OT400...600U	-	-	x (3 pcs)	YASDA6	-	-
Mechanical interlock							
OTZW24	OT16...160	-	-	-	-	x	x
OTZW10	OT200U	-	-	-	-	x	x
OETLZW14	OT400U	-	-	-	-	x	x
OETLZW3	OT400...600U	-	-	-	-	x	x
OETLZW15	OT400...2000U	-	-	-	-	x	x

Accessories for non-fusible disconnect switches OT16...2000

Ordering information for locking accessories



SA1

Locking accessories

Padlocking adapter

For a padlock with max. 3.5mm bail.

Suitable for switches	Type	Order number	Weight/ unit kg
OT30, OT60...100	SA1	GJF1101903R0001	0.01



OHZX4

Door interlock bracket for pistol handles

Prevents defeating the door interlock.

Suitable for switches	Type	Order number	Weight/ unit kg
For pistol handles OH_45...275	OHZX4	1SCA022467R2470	0.03



OETLZW16

Cam attachment

Cam attachment for Castell, Lowe & Fletcher and Ronis interlock. Lock, handle or shaft are not included. Mounting on OXP shaft working together with external OH door handle.

Suitable for switches	Type	Order number	Weight/ unit kg
OT16...160	OETLZW16	1SCA022093R2070	0.17
OT400...2000U	OETLZW5	1SCA022052R3900	0.14

Shaft locking kit

Fixing the shaft to the switch mechanism. The screw is included in the package.

Suitable for switches	Type	Order number	pcs
OT160...200U	OTZS2/B10	1SCA126043R1001	10
OT400...2000U	OZX1	1SCA105708R1001	10

Accessories for non-fusible disconnect switches OT200...1200

Ordering information for mechanical interlocks



OTZT1A



OTZT2A



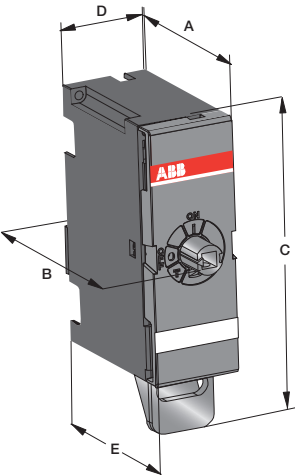
OTZT3A

Mechanism interlock kits and electrical interlocks

OT200...1200 switch-disconnectors can be interlocked in the OFF-position using padlocks or a mechanical interlock kit mounted on the mechanism. The diameter of the lock bail can be max 8mm.

Suitable for switches	Type	Order number	Weight/ unit kg
Interlocking in the OFF-position			
OT200U	OTZT1A	1SCA106522R1001	0.21
OT400U	OTZT2A	1SCA106523R1001	0.57
OT600U	OTZT3A	1SCA106525R1001	0.75
OT800...1200U	OTZT4A	1SCA106526R1001	1.15
Interlocking in the OFF- and ON-positions			
OT200U	OTZT1L	1SCA106527R1001	0.21
OT400U	OTZT2L	1SCA106529R1001	0.57
OT600U	OTZT3L	1SCA106530R1001	0.75
OT800...1200U	OTZT4L	1SCA106531R1001	1.15

Electrical and mechanical interlock OTZT_



	OTZT1_	OTZT2_	OTZT3_	OTZT4_
	mm	mm	mm	mm
A	69	81	86	88
B	82	102	110	110
C	122	152	201	258
D	35	52	65	84
E	73	91	98	95

M00350/OTZT1-4_ A

Accessories for non-fusible disconnect switches OT200...1200

Ordering information for electrical interlocks



PDAL2

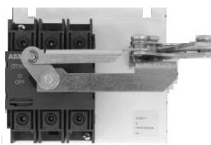
Coils for OTZT_ electrical interlocks

By installing a coil inside the housing of the interlock kit the switch can be interlocked electrically in the OFF-position or both in the OFF- and ON-positions. The electrical interlock works using the “closed circuit principle”, meaning that when the control voltage is not connected to the coil, the switches provided with A-type interlocks cannot be turned to the ON-position and switches with L-type interlocks cannot be turned to the ON- or OFF-positions.

Suitable for switches	Type	Order number	Weight/ unit kg
AC coils			
110 VAC, 50 Hz	PDAL2/110AC50Hz	1SCA106543R1001	0.15
110 VAC, 60 Hz	PDAL2/110AC60Hz	1SCA107100R1001	0.15
120 VAC, 60 Hz	PDAL2/120AC60Hz	1SCA111353R1001	0.15
208 VAC, 60 Hz	PDAL2/208AC60Hz	1SCA107101R1001	0.15
230 VAC, 50 Hz	PDAL2/230AC50Hz	1SCA107102R1001	0.15
240 VAC, 60 Hz	PDAL2/240AC60Hz	1SCA111356R1001	0.15
DC coils			
24 VDC	PDAL2/24DC	1SCA106542R1001	0.15
48 VDC	PDAL2/48DC	1SCA107103R1001	0.15
110 VDC	PDAL2/110DC	1SCA107105R1001	0.15
125 VDC	PDAL2/125DC	1SCA111338R1001	0.15
220 VDC	PDAL2/220DC	1SCA112503R1001	0.15
Technical data for the coil			
Operating voltage	U = 0.8...1.1 x Un		
Operating ambient temperature	-40° C...+65° C		
Power consumption	with AC 6.5 W with DC 9 VA		

Flange handles for non-fusible disconnect switches 30...100A

Ordering information for flange handles



Disconnect assembly
OT_F3-F



Handle
DSFHN_



Shaft
OTFS_

ABB's flange operated disconnect switches comply with NFPA79 requirements. The flange operated disconnect switches are available as ridged shaft or flexible cable operated versions. The cable operated version provides flexible depth and mounting location depending on the length of the cable. Cables are available in lengths up to 120 inches.

Shaft operated 30...100A

For a complete assembly, please select one of each.

Flange operated non-fusible disconnects (shaft) 3-pole

UL general purpose amp rating (A)	Order number
30	OT30F3-F
60	OT60F3-F
100	OT100F3-F

Flange handle

NEMA rating	Marking	Defeatable	Padlockable	Order number
1/12/3R	OFF/ON	No	Yes	DSFHN-HS12
4/4X	OFF/ON	No	Yes	DSFHN-HS4

Shafts

For use with	Maximum enclosure depth (in.)	Order number
OT30...100F3-F	16	OTFS-16
	24	OTFS-24

Flange handles for non-fusible disconnect switches 30...1200A

Ordering information for flange handles



Switch



Handle



Cable



Operating mechanism¹



Lug kit²

Cable operated 30...1200A

For a complete assembly, please select one of each.

Flange operated non-fusible disconnects (cable) 3-pole

UL general purpose amp rating (A)	Disconnect switch order number	Mechanism order number
30	OT30F3	MKCS1
60	OT60F3	MKCS1
100	OT100F3	MKCS1
200	OT200U30	MKCS4
400	OT400U30-FC	included with switch
600	OT600U30-FC	included with switch
800	OT800U30-FC	included with switch
1200	OT1200U30-FC	included with switch

Flange handle

For use with	Order number	
	NEMA rating 1/12/3R	NEMA rating 4/4X
OT30...100F3, OT200U30	OHF1C12	OHF1C4
OT400...600U30-FC	K7FCH	K7FCH4
OT800...1200U30-FC	K9FCH	K9FCH4

Cable

For use with	Order number							
	36 in.	48 in.	60 in.	72 in.	84 in.	96 in.	108 in.	120 in.
OT30...100F3, OT200U30	OXC1L36	OXC1L48	OXC1L60	OXC1L72	OXC1L84	OXC1L96	OXC1L108	-
OT400...600U30-FC	-	K7C048	K7C060	K7C072	K7C084	K7C096	-	K7C120
OT800...1200U30-FC	-	K8C048	K8C060	K8C072	K8C084	K8C096	-	-

Terminal shrouds

For use with	Order number
OT30...100F3	OTS125T3
OT200U30	OTS250G1L/3
OT400U30-FC	OTS403-FC
OT600U30-FC	OTS603-FC
OT800U30-FC	OTS803-FC
OT1200U30-FC	OTS1203-FC

¹ Rotate the OT_03 disconnect 180 degrees to mount on the operating mechanism

² For disconnects above 100A

Enclosed Rotary Switches

Product overview

The eOS and eOT series of Enclosed Rotary Switches are available in a wide range of options to suit your application.

- Enclosure NEMA types 1, 3R, 4X stainless steel and 4 plastic
- UL 98 listed 30–600 A; UL 508 listed 20–80 A
- Fused (eOS) and non-fused (eOT) options
- Rated up to 600 V
- 3-pole, 6-pole and 3-pole changeover
- Pistol and selector switch operators
- Auxiliary contacts

E O T 5 2 0 N 3 P A 2 - P B A														
Enclosed switches												Auxiliary contact		
Switch type												A = None		
OT = None-fused												1 = 1 NO and 1 NC		
OS = Fused														
UL listing												Handle		
5 = UL 508												PB = Pistol black		
9 = UL 98 (UL/cUL)												PR = Pistol red/yellow		
												PX = Pistol stainless steel		
												SB = Selector black		
												SR = Selector red/yellow		
Ampere rating												Enclosure type		
20 = 20 A 100 = 100 A												1 = Type 1 indoor metallic (UL98 only)		
30 = 30 A 200 = 200 A												3 = Type 1/3R/12 indoor/outdoor/dust-tight metallic		
40 = 40 A 400 = 400 A												P = Type 1/3R/12/4/4X plastic		
60 = 60 A 600 = 600 A												X = Type 4/4X stainless		
80 = 80 A 800 = 800 A														
Fusing												Series		
N = Non-fused												A = A Series		
C = Fused CC-class												B = B Series		
J = Fused J-class												C = C Series		
Poles												Switch style		
3 = 3 Poles												P = Standard		
4 = 4 Poles												C = Changeover		
6 = 6 Poles														
8 = 8 Poles														

Enclosed Rotary Switches

Product range



Switch size [A]	20	30	40	50	80
UL508 Switch	EOT 520	EOT 530	EOT 540	EOT 560	EOT 580
240V HP	5	7.5	10	15	20
480V HP	10	15	20	30	40
600V HP	10	20	25	30	-

EOT520 ... EOT580 Enclosed Rotary Switches

Technical data

UL 508

Technical data according to UL/CSA, AC ratings

Switch type		EOT520			EOT530		EOT540		EOT560		EOT580	
		Approval	cUL _{US} Listed		cUL _{US} Listed		cUL _{US} Listed		cUL _{US} Listed		cUL _{US} Listed	
		File #	E63822		E63822		E63822		E63822		E63822	
		Compliance	UL 508		UL 508		UL 508		UL 508		UL 508	
General purpose amp rating	pf= 0.7...0.8	-40 °C to 40 °C	20 A		30 A		40 A		60 A		80 A	
Max. operating voltage			600 V		600 V		600 V		600 V		600 V	
Max. horsepower rating/motor FLA current	pf= 0.4...0.5	240 V	5 hp/15.2 A		7.5 hp/22.0 A		10 hp/28.0 A		15 hp/42.0 A		20 hp/54.0 A	
	Three phase	480 V	10 hp/14.0 A		15 hp/21.0 A		20 hp/27.0 A		30 hp/40.0 A		40 hp/52.0 A	
		600 V	10 hp/11.0 A		20 hp/22.0 A		25 hp/27.0 A		30 hp/32.0 A		40 hp/41.0 A	
	Single phase	120 V	1 hp/16.0 A		1.5 hp/20.0 A		2 hp/24.0 A		2 hp/24.0 A		2 hp/24.0 A	
		240 V	2 hp/12.0 A		3 hp/17.0 A		5 hp/28.0 A		7.5 hp/40.0 A		10 hp/50.0 A	
		480 V	5 hp/14.0 A		7.5 hp/21.0 A		10 hp/26.0 A		15 hp/34.0 A		20 hp/44.0 A	
		600 V	7.5 hp/16.0 A		10 hp/20.0 A		15 hp/27.0 A		15 hp/27.0 A		20 hp/38.5 A	
Short circuit rating with fuse	Maximum fuse size		30 A	60 A	30 A	60 A	30 A	60 A	100 A	150 A	100 A	150 A
	Fuse type	J	10 kA	10 kA	10 kA	10 kA	10 kA	10 kA	100 kA	–	100 kA	–
	Fuse type	T	10 kA	10 kA	10 kA	10 kA	10 kA	10 kA	100 kA	–	100 kA	–
	Fuse type	RK1	10 kA	–	10 kA	–	10 kA	–	–	–	–	–
	Fuse type	RK5 ¹	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	10 kA	5 kA	10 kA	5 kA
	Fuse type	L	–	–	–	–	–	–	–	–	–	–
	Fuse type	H	–	–	–	–	–	–	–	5 kA	–	5 kA

¹Fuse size 70 A for RK5.

Endurances

Min. electrical endurance, pf. 0.75...0.8		6000 oper.	6000 oper.	6000 oper.	6000 oper.	6000 oper.	6000 oper.	6000 oper.	6000 oper.	6000 oper.	6000 oper.
Mechanical endurance		20,000 oper.	20,000 oper.	20,000 oper.	20,000 oper.	20,000 oper.	20,000 oper.	20,000 oper.	20,000 oper.	20,000 oper.	20,000 oper.
Terminal lugs		Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Copper wire range	60–75 °C	18–8 AWG	18–8 AWG	18–8 AWG	14–4 AWG	14–4 AWG	14–4 AWG	14–4 AWG	14–4 AWG	8–1/0 AWG	8–1/0 AWG
Torque	Wire tightening	0.8 Nm/ 7 lb. in.	0.8 Nm/ 7 lb. in.	0.8 Nm/ 7 lb. in.	2 Nm/ 18 lb. in.	2 Nm/ 18 lb. in.	6.2 Nm/ 55 lb. in.	6.2 Nm/ 55 lb. in.	6.2 Nm/ 55 lb. in.	6.2 Nm/ 55 lb. in.	6.2 Nm/ 55 lb. in.

EOT520 ... EOT580 Enclosed Rotary Switches

3-pole UL 508, non-fused

NEMA 3R/12 metal enclosure



EOT540N3PA3-SBA

3-pole UL 508, non-fused — NEMA 3R/12 metal enclosure

Amp rating (A)	Horsepower rating 3-phase			Handle type	Handle color	Auxiliary contacts	Order number	Weight / unit (lb / kg)
	240 V AC	480 V AC	600 V AC					
	HP	HP	HP					
20	5	10	10	Pistol	Black	–	EOT520N3PA3-PBA	2.30 / 1.04
					Red/yellow	–	EOT520N3PA3-PRA	2.30 / 1.04
					Black	1 NO + 1 NC	EOT520N3PA3-PR1	2.37 / 1.07
					Red/yellow	1 NO + 1 NC	EOT520N3PA3-PB1	2.37 / 1.07
				Selector	Black	–	EOT520N3PA3-SBA	2.30 / 1.04
					Red/yellow	–	EOT520N3PA3-SRA	2.30 / 1.04
					Black	1 NO + 1 NC	EOT520N3PA3-SB1	2.37 / 1.07
					Red/yellow	1 NO + 1 NC	EOT520N3PA3-SR1	2.37 / 1.07
30	7	15	20	Pistol	Black	–	EOT530N3PA3-PBA	2.30 / 1.04
					Red/yellow	–	EOT530N3PA3-PRA	2.30 / 1.04
					Black	1 NO + 1 NC	EOT530N3PA3-PB1	2.37 / 1.07
					Red/yellow	1 NO + 1 NC	EOT530N3PA3-PR1	2.37 / 1.07
				Selector	Black	–	EOT530N3PA3-SBA	2.30 / 1.04
					Red/yellow	–	EOT530N3PA3-SRA	2.30 / 1.04
					Black	1 NO + 1 NC	EOT530N3PA3-SB1	2.37 / 1.07
					Red/yellow	1 NO + 1 NC	EOT530N3PA3-SR1	2.37 / 1.07
40	10	20	25	Pistol	Black	–	EOT540N3PA3-PBA	2.30 / 1.04
					Red/yellow	–	EOT540N3PA3-PRA	2.30 / 1.04
					Black	1 NO + 1 NC	EOT540N3PA3-PB1	2.37 / 1.07
					Red/yellow	1 NO + 1 NC	EOT540N3PA3-PR1	2.37 / 1.07
				Selector	Black	–	EOT540N3PA3-SBA	2.30 / 1.04
					Red/yellow	–	EOT540N3PA3-SRA	2.30 / 1.04
					Black	1 NO + 1 NC	EOT540N3PA3-SB1	2.37 / 1.07
					Red/yellow	1 NO + 1 NC	EOT540N3PA3-SR1	2.37 / 1.07
60	15	30	30	Pistol	Black	–	EOT560N3PA3-PBA	3.35 / 1.52
					Red/yellow	–	EOT560N3PA3-PRA	3.35 / 1.52
					Black	1 NO + 1 NC	EOT560N3PA3-PB1	3.42 / 1.55
					Red/yellow	1 NO + 1 NC	EOT560N3PA3-PR1	3.42 / 1.55
				Selector	Black	–	EOT560N3PA3-SBA	3.35 / 1.52
					Red/yellow	–	EOT560N3PA3-SRA	3.35 / 1.52
					Black	1 NO + 1 NC	EOT560N3PA3-SB1	3.42 / 1.55
					Red/yellow	1 NO + 1 NC	EOT560N3PA3-SR1	3.42 / 1.55
80	20	40	40	Pistol	Black	–	EOT580N3PA3-PBA	3.79 / 1.72
					Red/yellow	–	EOT580N3PA3-PRA	3.79 / 1.72
					Black	1 NO + 1 NC	EOT580N3PA3-PB1	3.86 / 1.75
					Red/yellow	1 NO + 1 NC	EOT580N3PA3-PR1	3.86 / 1.75
				Selector	Black	–	EOT580N3PA3-SBA	3.79 / 1.72
					Red/yellow	–	EOT580N3PA3-SRA	3.79 / 1.72
					Black	1 NO + 1 NC	EOT580N3PA3-SB1	3.86 / 1.75
					Red/yellow	1 NO + 1 NC	EOT580N3PA3-SR1	3.86 / 1.75

EOT520 ... EOT580 Enclosed Rotary Switches

3-pole UL 508, non-fused

NEMA 4/4X stainless steel enclosure



EOT520N3PAX-PBA

3-pole UL 508, non-fused — NEMA 4/4X stainless steel enclosure

Amp rating (A)	Horsepower rating 3-phase			Handle type	Handle color	Auxiliary contacts	Order number	Weight / unit (lb / kg)
	240 V AC	480 V AC	600 V AC					
	HP	HP	HP					
20	5	10	10	Pistol	Black	–	EOT520N3PAX-PBA	2.30 / 1.04
					Red/yellow	–	EOT520N3PAX-PRA	2.30 / 1.04
					Stainless steel	–	EOT520N3PAX-PXA	2.30 / 1.04
					Black	1 NO + 1 NC	EOT520N3PAX-PR1	2.37 / 1.07
					Red/yellow	1 NO + 1 NC	EOT520N3PAX-PB1	2.30 / 1.04
					Stainless steel	1 NO + 1 NC	EOT520N3PAX-PX1	2.30 / 1.04
30	7	15	20	Pistol	Black	–	EOT530N3PAX-PBA	2.30 / 1.04
					Red/yellow	–	EOT530N3PAX-PRA	2.30 / 1.04
					Stainless steel	–	EOT530N3PAX-PXA	2.30 / 1.04
					Black	1 NO + 1 NC	EOT530N3PAX-PB1	2.37 / 1.07
					Red/yellow	1 NO + 1 NC	EOT530N3PAX-PR1	2.30 / 1.04
					Stainless steel	1 NO + 1 NC	EOT530N3PAX-PX1	2.30 / 1.04
40	10	20	25	Pistol	Black	–	EOT540N3PAX-PBA	2.30 / 1.04
					Red/yellow	–	EOT540N3PAX-PRA	2.30 / 1.04
					Stainless steel	–	EOT540N3PAX-PXA	2.30 / 1.04
					Black	1 NO + 1 NC	EOT540N3PAX-PB1	2.37 / 1.07
					Red/yellow	1 NO + 1 NC	EOT540N3PAX-PR1	2.30 / 1.04
					Stainless steel	1 NO + 1 NC	EOT540N3PAX-PX1	2.30 / 1.04
60	15	30	30	Pistol	Black	–	EOT560N3PAX-PBA	3.35 / 1.52
					Red/yellow	–	EOT560N3PAX-PRA	3.35 / 1.52
					Stainless steel	–	EOT560N3PAX-PXA	3.35 / 1.52
					Black	1 NO + 1 NC	EOT560N3PAX-PB1	3.42 / 1.55
					Red/yellow	1 NO + 1 NC	EOT560N3PAX-PR1	3.42 / 1.55
					Stainless steel	1 NO + 1 NC	EOT560N3PAX-PX1	3.42 / 1.55
80	20	40	40	Pistol	Black	–	EOT580N3PAX-PBA	3.79 / 1.72
					Red/yellow	–	EOT580N3PAX-PRA	3.79 / 1.72
					Stainless steel	–	EOT580N3PAX-PXA	3.79 / 1.72
					Black	1 NO + 1 NC	EOT580N3PAX-PB1	3.86 / 1.75
					Red/yellow	1 NO + 1 NC	EOT580N3PAX-PR1	3.86 / 1.75
					Stainless steel	1 NO + 1 NC	EOT580N3PAX-PX1	3.86 / 1.75

EOT520 ... EOT580 Enclosed Rotary Switches

3-pole UL 508, non-fused

NEMA 4/4X plastic enclosure



EOT520N3PAP-PBA

3-pole UL 508, non-fused — NEMA 4/4X plastic enclosure

Amp rating (A)	Horsepower rating 3-phase			Handle type	Handle color	Auxiliary contacts	Order number	Weight / unit (lb / kg)
	240 V AC	480 V AC	600 V AC					
	HP	HP	HP					
20	5	10	10	Pistol	Black	—	EOT520N3PAP-PBA	1.80 / 0.82
					Red/yellow	—	EOT520N3PAP-PRA	1.80 / 0.82
					Black	1 NO + 1 NC	EOT520N3PAP-PB1	1.87 / 0.85
					Red/yellow	1 NO + 1 NC	EOT520N3PAP-PR1	1.87 / 0.85
				Selector	Black	—	EOT520N3PAP-SBA	1.80 / 0.82
					Red/yellow	—	EOT520N3PAP-SRA	1.80 / 0.82
					Black	1 NO + 1 NC	EOT520N3PAP-SB1	1.87 / 0.85
					Red/yellow	1 NO + 1 NC	EOT520N3PAP-SR1	1.87 / 0.85
30	7	15	20	Pistol	Black	—	EOT530N3PAP-PBA	1.80 / 0.82
					Red/yellow	—	EOT530N3PAP-PRA	1.80 / 0.82
					Black	1 NO + 1 NC	EOT530N3PAP-PB1	1.87 / 0.85
					Red/yellow	1 NO + 1 NC	EOT530N3PAP-PR1	1.87 / 0.85
				Selector	Black	—	EOT530N3PAP-SBA	1.80 / 0.82
					Red/yellow	—	EOT530N3PAP-SRA	1.80 / 0.82
					Black	1 NO + 1 NC	EOT530N3PAP-SB1	1.87 / 0.85
					Red/yellow	1 NO + 1 NC	EOT530N3PAP-SR1	1.87 / 0.85
40	10	20	25	Pistol	Black	—	EOT540N3PAP-PBA	1.80 / 0.82
					Red/yellow	—	EOT540N3PAP-PRA	1.80 / 0.82
					Black	1 NO + 1 NC	EOT540N3PAP-PB1	1.87 / 0.85
					Red/yellow	1 NO + 1 NC	EOT540N3PAP-PR1	1.87 / 0.85
				Selector	Black	—	EOT540N3PAP-SBA	1.80 / 0.82
					Red/yellow	—	EOT540N3PAP-SRA	1.80 / 0.82
					Black	1 NO + 1 NC	EOT540N3PAP-SB1	1.87 / 0.85
					Red/yellow	1 NO + 1 NC	EOT540N3PAP-SR1	1.87 / 0.85
60	15	30	30	Pistol	Black	—	EOT560N3PAP-PBA	1.35 / 0.61
					Red/yellow	—	EOT560N3PAP-PRA	1.35 / 0.61
					Black	1 NO + 1 NC	EOT560N3PAP-PB1	1.42 / 0.64
					Red/yellow	1 NO + 1 NC	EOT560N3PAP-PR1	1.42 / 0.64
				Selector	Black	—	EOT560N3PAP-SBA	1.35 / 0.61
					Red/yellow	—	EOT560N3PAP-SRA	1.35 / 0.61
					Black	1 NO + 1 NC	EOT560N3PAP-SB1	1.42 / 0.64
					Red/yellow	1 NO + 1 NC	EOT560N3PAP-SR1	1.42 / 0.64
80	20	40	40	Pistol	Black	—	EOT580N3PAP-PBA	1.79 / 0.81
					Red/yellow	—	EOT580N3PAP-PRA	1.79 / 0.81
					Black	1 NO + 1 NC	EOT580N3PAP-PB1	1.86 / 0.85
					Red/yellow	1 NO + 1 NC	EOT580N3PAP-PR1	1.86 / 0.85
				Selector	Black	—	EOT580N3PAP-SBA	1.79 / 0.81
					Red/yellow	—	EOT580N3PAP-SRA	1.79 / 0.81
					Black	1 NO + 1 NC	EOT580N3PAP-SB1	1.86 / 0.85
					Red/yellow	1 NO + 1 NC	EOT580N3PAP-SR1	1.86 / 0.85

EOT520 ... EOT580 Enclosed Rotary Switches

6-pole UL 508, non-fused

NEMA 3R/12 metal enclosure



EOT560N6PA3-PRA

6-pole UL 508, non-fused — NEMA 3R/12 metal enclosure

Amp rating (A)	Horsepower rating 3-phase			Handle type	Handle color	Auxiliary contacts	Order number	Weight / unit (lb / kg)
	240 V AC	480 V AC	600 V AC					
	HP	HP	HP					
20	5	10	10	Pistol	Black	–	EOT520N6PA3-PBA	3.70 / 1.68
					Red/yellow	–	EOT520N6PA3-PRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT520N6PA3-PB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT520N6PA3-PR1	3.77 / 1.71
				Selector	Black	–	EOT520N6PA3-SBA	3.70 / 1.68
					Red/yellow	–	EOT520N6PA3-SRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT520N6PA3-SB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT520N6PA3-SR1	3.77 / 1.71
30	7	15	20	Pistol	Black	–	EOT530N6PA3-PBA	3.70 / 1.68
					Red/yellow	–	EOT530N6PA3-PRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT530N6PA3-PB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT530N6PA3-PR1	3.77 / 1.71
				Selector	Black	–	EOT530N6PA3-SBA	3.70 / 1.68
					Red/yellow	–	EOT530N6PA3-SRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT530N6PA3-SB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT530N6PA3-SR1	3.77 / 1.71
40	10	20	25	Pistol	Black	–	EOT540N6PA3-PBA	3.70 / 1.68
					Red/yellow	–	EOT540N6PA3-PRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT540N6PA3-PB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT540N6PA3-PR1	3.77 / 1.71
				Selector	Black	–	EOT540N6PA3-SBA	3.70 / 1.68
					Red/yellow	–	EOT540N6PA3-SRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT540N6PA3-SB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT540N6PA3-SR1	3.77 / 1.71
60	15	30	30	Pistol	Black	–	EOT560N6PA3-PBA	4.70 / 2.13
					Red/yellow	–	EOT560N6PA3-PRA	4.70 / 2.13
					Black	1 NO + 1 NC	EOT560N6PA3-PB1	4.77 / 2.16
					Red/yellow	1 NO + 1 NC	EOT560N6PA3-PR1	4.77 / 2.16
				Selector	Black	–	EOT560N6PA3-SBA	4.70 / 2.13
					Red/yellow	–	EOT560N6PA3-SRA	4.70 / 2.13
					Black	1 NO + 1 NC	EOT560N6PA3-SB1	4.77 / 2.16
					Red/yellow	1 NO + 1 NC	EOT560N6PA3-SR1	4.77 / 2.16
80	20	40	40	Pistol	Black	–	EOT580N6PA3-PBA	5.70 / 2.59
					Red/yellow	–	EOT580N6PA3-PRA	5.70 / 2.59
					Black	1 NO + 1 NC	EOT580N6PA3-PB1	5.77 / 2.62
					Red/yellow	1 NO + 1 NC	EOT580N6PA3-PR1	5.77 / 2.62
				Selector	Black	–	EOT580N6PA3-SBA	5.70 / 2.59
					Red/yellow	–	EOT580N6PA3-SRA	5.70 / 2.59
					Black	1 NO + 1 NC	EOT580N6PA3-SB1	5.77 / 2.62
					Red/yellow	1 NO + 1 NC	EOT580N6PA3-SR1	5.77 / 2.62

EOT520 ... EOT580 Enclosed Rotary Switches

6-pole UL 508, non-fused
NEMA 4/4X stainless steel enclosure



EOT530N6PAX-PRA

6-pole UL 508, non-fused — NEMA 4/4X stainless steel enclosure

Amp rating (A)	Horsepower rating 3-phase			Handle type	Handle color	Auxiliary contacts	Order number	Weight / unit (lb / kg)
	240 V AC	480 V AC	600 V AC					
	HP	HP	HP					
20	5	10	10	Pistol	Black	–	EOT520N6PAX-PBA	3.70 / 1.68
					Red/yellow	–	EOT520N6PAX-PRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT520N6PAX-PB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT520N6PAX-PR1	3.77 / 1.71
30	7	15	20	Pistol	Black	–	EOT530N6PAX-PBA	3.70 / 1.68
					Red/yellow	–	EOT530N6PAX-PRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT530N6PAX-PB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT530N6PAX-PR1	3.77 / 1.71
40	10	20	25	Pistol	Black	–	EOT540N6PAX-PBA	3.70 / 1.68
					Red/yellow	–	EOT540N6PAX-PRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT540N6PAX-PB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT540N6PAX-PR1	3.77 / 1.71
60	15	30	30	Pistol	Black	–	EOT560N6PAX-PBA	4.70 / 2.13
					Red/yellow	–	EOT560N6PAX-PRA	4.70 / 2.13
					Black	1 NO + 1 NC	EOT560N6PAX-PB1	4.77 / 2.16
					Red/yellow	1 NO + 1 NC	EOT560N6PAX-PR1	4.77 / 2.16
80	20	40	40	Pistol	Black	–	EOT580N6PAX-PBA	5.70 / 2.59
					Red/yellow	–	EOT580N6PAX-PRA	5.70 / 2.59
					Black	1 NO + 1 NC	EOT580N6PAX-PB1	5.77 / 2.62
					Red/yellow	1 NO + 1 NC	EOT580N6PAX-PR1	5.77 / 2.62

EOT520 ... EOT580 Enclosed Rotary Switches

6-pole UL 508, non-fused

NEMA 4/4X plastic enclosure



EOT520N6PAP-PBA

6-pole UL 508, non-fused — NEMA 4/4X plastic enclosure

Amp rating (A)	Horsepower rating 3-phase			Handle type	Handle color	Auxiliary contacts	Order number	Weight / unit (lb / kg)
	240 V AC	480 V AC	600 V AC					
	HP	HP	HP					
20	5	10	10	Pistol	Black	—	EOT520N6PAP-PBA	1.70 / 0.77
					Red/yellow	—	EOT520N6PAP-PRA	1.70 / 0.77
					Black	1 NO + 1 NC	EOT520N6PAP-PB1	1.77 / 0.80
					Red/yellow	1 NO + 1 NC	EOT520N6PAP-PR1	1.77 / 0.80
				Selector	Black	—	EOT520N6PAP-SBA	1.70 / 0.77
					Red/yellow	—	EOT520N6PAP-SRA	1.70 / 0.77
					Black	—	EOT520N6PAP-SB1	1.77 / 0.80
					Red/yellow	—	EOT520N6PAP-SR1	1.77 / 0.80
30	7	15	20	Pistol	Black	—	EOT530N6PAP-PBA	1.70 / 0.77
					Red/yellow	—	EOT530N6PAP-PRA	1.70 / 0.77
					Black	1 NO + 1 NC	EOT530N6PAP-PB1	1.77 / 0.80
					Red/yellow	1 NO + 1 NC	EOT530N6PAP-PR1	1.77 / 0.80
				Selector	Black	—	EOT530N6PAP-SBA	1.70 / 0.77
					Red/yellow	—	EOT530N6PAP-SRA	1.70 / 0.77
					Black	—	EOT530N6PAP-SB1	1.77 / 0.80
					Red/yellow	—	EOT530N6PAP-SR1	1.77 / 0.80
40	10	20	25	Pistol	Black	—	EOT540N6PAP-PBA	1.70 / 0.77
					Red/yellow	—	EOT540N6PAP-PRA	1.70 / 0.77
					Black	1 NO + 1 NC	EOT540N6PAP-PB1	1.77 / 0.80
					Red/yellow	1 NO + 1 NC	EOT540N6PAP-PR1	1.77 / 0.80
				Selector	Black	—	EOT540N6PAP-SBA	1.70 / 0.77
					Red/yellow	—	EOT540N6PAP-SRA	1.70 / 0.77
					Black	—	EOT540N6PAP-SB1	1.77 / 0.80
					Red/yellow	—	EOT540N6PAP-SR1	1.77 / 0.80
60	15	30	30	Pistol	Black	—	EOT560N6PAP-PBA	2.70 / 1.22
					Red/yellow	—	EOT560N6PAP-PRA	2.70 / 1.22
					Black	1 NO + 1 NC	EOT560N6PAP-PB1	2.77 / 1.25
					Red/yellow	1 NO + 1 NC	EOT560N6PAP-PR1	2.77 / 1.25
				Selector	Black	—	EOT560N6PAP-SBA	2.70 / 1.22
					Red/yellow	—	EOT560N6PAP-SRA	2.70 / 1.22
					Black	—	EOT560N6PAP-SB1	2.77 / 1.25
					Red/yellow	—	EOT560N6PAP-SR1	2.77 / 1.25
80	20	40	40	Pistol	Black	—	EOT580N6PAP-PBA	3.70 / 1.68
					Red/yellow	—	EOT580N6PAP-PRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT580N6PAP-PB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT580N6PAP-PR1	3.77 / 1.71
				Selector	Black	—	EOT580N6PAP-SBA	3.70 / 1.68
					Red/yellow	—	EOT580N6PAP-SRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT580N6PAP-SB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT580N6PAP-SR1	3.77 / 1.71

EOT520 ... EOT580 Enclosed Rotary Switches

3-pole UL 508, changeover

NEMA 3R/12 metal enclosure



EOT560N3CA3-PRA

3-pole UL 508, changeover — NEMA 3R/12 metal enclosure

Amp rating (A)	Horsepower rating 3-phase			Handle type	Handle color	Auxiliary contacts	Order number	Weight / unit (lb / kg)
	240 V AC	480 V AC	600 V AC					
	HP	HP	HP					
20	5	10	10	Pistol	Black	—	EOT520N3CA3-PBA	3.70 / 1.68
					Red/yellow	—	EOT520N3CA3-PRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT520N3CA3-PB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT520N3CA3-PR1	3.77 / 1.71
				Selector	Black	—	EOT520N3CA3-SBA	3.70 / 1.68
					Red/yellow	—	EOT520N3CA3-SRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT520N3CA3-SB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT520N3CA3-SR1	3.77 / 1.71
30	7	15	20	Pistol	Black	—	EOT530N3CA3-PBA	3.70 / 1.68
					Red/yellow	—	EOT530N3CA3-PRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT530N3CA3-PB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT530N3CA3-PR1	3.77 / 1.71
				Selector	Black	—	EOT530N3CA3-SBA	3.70 / 1.68
					Red/yellow	—	EOT530N3CA3-SRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT530N3CA3-SB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT530N3CA3-SR1	3.77 / 1.71
40	10	20	25	Pistol	Black	—	EOT540N3CA3-PBA	3.70 / 1.68
					Red/yellow	—	EOT540N3CA3-PRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT540N3CA3-PB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT540N3CA3-PR1	3.77 / 1.71
				Selector	Black	—	EOT540N3CA3-SBA	3.70 / 1.68
					Red/yellow	—	EOT540N3CA3-SRA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT540N3CA3-SB1	3.77 / 1.71
					Red/yellow	1 NO + 1 NC	EOT540N3CA3-SR1	3.77 / 1.71
60	15	30	30	Pistol	Black	—	EOT560N3CA3-PBA	4.70 / 2.13
					Red/yellow	—	EOT560N3CA3-PRA	4.70 / 2.13
					Black	1 NO + 1 NC	EOT560N3CA3-PB1	4.77 / 2.16
					Red/yellow	1 NO + 1 NC	EOT560N3CA3-PR1	4.77 / 2.16
				Selector	Black	—	EOT560N3CA3-SBA	4.70 / 2.13
					Red/yellow	—	EOT560N3CA3-SRA	4.70 / 2.13
					Black	1 NO + 1 NC	EOT560N3CA3-SB1	4.77 / 2.16
					Red/yellow	1 NO + 1 NC	EOT560N3CA3-SR1	4.77 / 2.16
80	20	40	40	Pistol	Black	—	EOT580N3CA3-PBA	5.70 / 2.59
					Red/yellow	—	EOT580N3CA3-PRA	5.70 / 2.59
					Black	1 NO + 1 NC	EOT580N3CA3-PB1	5.77 / 2.62
					Red/yellow	1 NO + 1 NC	EOT580N3CA3-PR1	5.77 / 2.62
				Selector	Black	—	EOT580N3CA3-SBA	5.70 / 2.59
					Red/yellow	—	EOT580N3CA3-SRA	5.70 / 2.59
					Black	1 NO + 1 NC	EOT580N3CA3-SB1	5.77 / 2.62
					Red/yellow	1 NO + 1 NC	EOT580N3CA3-SR1	5.77 / 2.62

EOT520 ... EOT580 Enclosed Rotary Switches

3-pole UL 508, changeover

NEMA 4/4X stainless steel and NEMA 4/4X plastic enclosures



—
EOT540N3CAX-PBA

3-pole UL 508, changeover — NEMA 4/4X stainless steel enclosure

Amp rating (A)	Horsepower rating 3-phase			Handle type	Handle color	Auxiliary contacts	Order number	Weight / unit (lb / kg)
	240 V AC	480 V AC	600 V AC					
	HP	HP	HP					
20	5	10	10	Pistol	Black	—	EOT520N3CAX-PBA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT520N3CAX-PB1	3.77 / 1.71
30	7	15	20	Pistol	Black	—	EOT530N3CAX-PBA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT530N3CAX-PB1	3.77 / 1.71
40	10	20	25	Pistol	Black	—	EOT540N3CAX-PBA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT540N3CAX-PB1	3.77 / 1.71
60	15	30	30	Pistol	Black	—	EOT560N3CAX-PBA	4.70 / 2.13
					Black	1 NO + 1 NC	EOT560N3CAX-PB1	4.77 / 2.16
80	20	40	40	Pistol	Black	—	EOT580N3CAX-PBA	5.70 / 2.59
					Black	1 NO + 1 NC	EOT580N3CAX-PB1	5.77 / 2.62



—
EOT540N3CAP-PBA

3-pole UL 508, changeover — NEMA 4/4X plastic enclosure

Amp rating (A)	Horsepower rating 3-phase			Handle type	Handle color	Auxiliary contacts	Order number	Weight / unit (lb / kg)
	240 V AC	480 V AC	600 V AC					
	HP	HP	HP					
20	5	10	10	Pistol	Black	—	EOT520N3CAP-PBA	1.70 / 0.77
					Black	1 NO + 1 NC	EOT520N3CAP-PB1	1.77 / 0.80
				Selector	Black	—	EOT520N3CAP-SBA	1.70 / 0.77
					Black	1 NO + 1 NC	EOT520N3CAP-SB1	1.77 / 0.80
30	7	15	20	Pistol	Black	—	EOT530N3CAP-PBA	1.70 / 0.77
					Black	1 NO + 1 NC	EOT530N3CAP-PB1	1.77 / 0.80
				Selector	Black	—	EOT530N3CAP-SBA	1.70 / 0.77
					Black	1 NO + 1 NC	EOT530N3CAP-SB1	1.77 / 0.80
40	10	20	25	Pistol	Black	—	EOT540N3CAP-PBA	1.70 / 0.77
					Black	1 NO + 1 NC	EOT540N3CAP-PB1	1.77 / 0.80
				Selector	Black	—	EOT540N3CAP-SBA	1.70 / 0.77
					Black	1 NO + 1 NC	EOT540N3CAP-SB1	1.77 / 0.80
60	15	30	30	Pistol	Black	—	EOT560N3CAP-PBA	2.70 / 1.22
					Black	1 NO + 1 NC	EOT560N3CAP-PB1	2.77 / 1.25
				Selector	Black	—	EOT560N3CAP-SBA	2.70 / 1.22
					Black	1 NO + 1 NC	EOT560N3CAP-SB1	2.77 / 1.25
80	20	40	40	Pistol	Black	—	EOT580N3CAP-PBA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT580N3CAP-PB1	3.77 / 1.71
				Selector	Black	—	EOT580N3CAP-SBA	3.70 / 1.68
					Black	1 NO + 1 NC	EOT580N3CAP-SB1	3.77 / 1.71

OTDC XS-Series IEC and UL

Technical data



OTDC16...32U_

Technical data according to IEC 60947 for switch-disconnectors OTDC16...32U_

Switch size			OTDC16U	OTDC25U	OTDC32U
Rated insulation voltage U_i	Pollution degree 2 ¹	V	1250	1250	1250
	Pollution degree 3 ¹	V	1000	1000	1000
Rated impulse withstand voltage		kV	8	8	8
Rated thermal current I_{th}	In open air, normal conditions ²	A	40	50	63
	In enclosure 40°C	A	32	40	50
	In enclosure 60°C	A	25	32	40
...with cable or bar cross section		Cu	mm ² 4	6	10
Rated operational current DC-21B / Poles in series	660 V	One circuit	V 16/2P	25/2P	32/2P
		Two circuits	V 16/2Px2	25/2Px2	32/2Px2
		Three circuits	V 16/2Px3	25/2Px3	32/2Px3
	1000 V ³	One circuit	V 10/2P	16/2P	20/2P
		Two circuits	V 10/2Px2	16/2Px2	20/2Px2
		Three circuits	V 10/2Px3	16/2Px3	20/2Px3
Rated short-time withstand current, 1000 V, 1 s	R.M.S.-value I_{cw}	kA	1,0	1,0	1,0
Rated conditional short-circuit current I_p (r.m.s.)	I_p (r.m.s.), 1000 V	kA	10	10	10
	Max fuse size, gPV	A	80	80	80
Power loss / pole	At rated current	W	0,1	0,2	0,35
Terminal cable size	Cu	mm ²	2.5...16	2.5...16	2.5...16
Terminal tightening torque	Counter torque required	Nm	1.2...1.4	1.2...1.4	1.2...1.4

¹ When used with external handle. For use with direct mounted handle, see installation instruction.

² Normal conditions defined in IEC 60947-1, section 6.1.

³ U and UT types only. (Not applicable for US nor UST)

Technical data in accordance to UL508I for photovoltaic disconnect switches OTDC16...32U_

Suitable for use in photovoltaic systems in accordance with article 690 of the NEC.

Switch size			OTDC16U	OTDC25U	OTDC32U
UL Listed	Standard		UL508i	UL508i	UL508i
Rated ambient temperature		°C	-20...+60	-20...+60	-20...+60
Rated current / Poles in series	600 V	One circuit	A 16/2P	25/2P	
		Two circuits	A 16/2Px2	25/2Px2	32/2Px2
		Three circuits	A 16/2Px3		
Short circuit rating	600 V	kA	5	5	5
Protection type	Max fuse size, RK5 fuse	A	80	80	80
Wire range			AWG 12-6	AWG 12-6	AWG 12-6
Technical data according to IEC 60947	See IEC table for type		OTDC16U	OTDC25U	OTDC32U

OTDC XS-Series 16...32 A

Ordering information, IEC and UL



OTDC16...32F_

Switch-disconnectors OTDC XS-Series, base or DIN-rail mounting, IEC and UL
OTDC16...32U include IP20 protected terminal clamps.

Rated operational current [A]						Single packed	
UL 508i	IEC 60947-3, DC-21B		Number of circuits	Circuit	Number of poles		
600Vdc	660Vdc	1000Vdc				Type	Order number
Base or DIN-rail mounting							
16	16	10	1	2a, 2b	2	OTDC16U2	1SCA134369R1001
25	25	16	1	2a, 2b	2	OTDC25U2	1SCA134375R1001
16	16	10	2	4a, 4c	4	OTDC16U4	1SCA134370R1001
25	25	16	2	4a, 4c	4	OTDC25U4	1SCA134377R1001
32	32	20	2	4a, 4c	4	OTDC32U4	1SCA136703R1001
16	16	10	3	7a, 7e	6	OTDC16U6	1SCA134371R1001
Door mounting							
16	16	10	1	2a, 2b	2	OTDC16UT2	1SCA134387R1001
25	25	16	1	2a, 2b	2	OTDC25UT2	1SCA134388R1001
16	16	10	2	4a, 4c	4	OTDC16UT4	1SCA134390R1001
25	25	16	2	4a, 4c	4	OTDC25UT4	1SCA134391R1001
32	32	20	2	4a, 4c	4	OTDC32UT4	1SCA136705R1001
16	16	10	3	7a, 7e	6	OTDC16UT6	1SCA134580R1001

The circuits can be found on page 9-94.

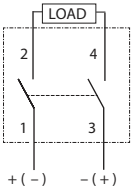
You can find the accessories starting from page 9-109.

OTDC XS-Series circuits

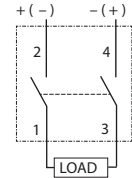
Ordering information, IEC and UL

Single circuit 2a, 2b

2-pole, 4-wire, 1-circuit

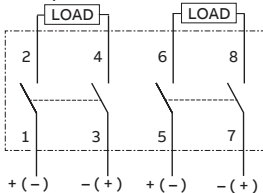


2-pole, 4-wire, 1-circuit
REVERSED SUPPLY

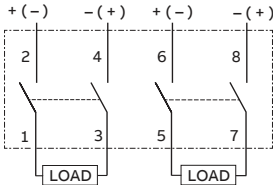


Double circuit 4a, 4c

4-pole, 4-wire, 2-circuit

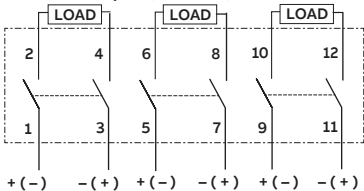


4-pole, 4-wire, 2-circuit
REVERSED SUPPLY

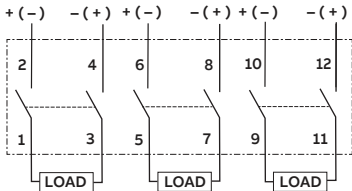


Triple circuit 7a, 7e

6-pole, 12-wire, 3-circuit



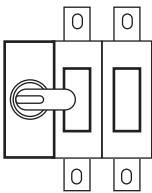
6-pole, 12-wire, 3-circuit
REVERSED SUPPLY



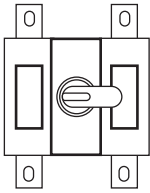
Overview of product range OTDC S-Series
Type codes and pole configuration table

Explanation of the types OTDC S1.0 and OTDC S2.0-Series from 100A up to 250A (IEC and UL98B)

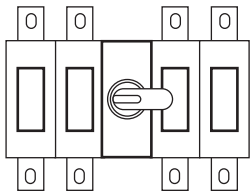
OTDC		200	G	V	11	S	-ESS
ABB brand							Application
DC switch-disconnector							Blank = Short-circuit ratings ≤10kA
							ESS = Short-circuit ratings >10kA
Switch size / Ampere rating							Operation mode
IEC = 100A, 160A, 200A, 250A							Blank = Front operation (handle not included)
UL = 100A, 200A, 250A							S = Side operation (handle not included)
Standard							Number of poles
OTDC S1.0-Series							11 = Two poles, mechanism between the poles
E = IEC 60947							02 = Two poles, mechanism at the end of the switch
U = UL98B and IEC60947							22 = Four poles, mechanism between the poles
OTDC S2.0-Series							33 = Six poles, mechanism between the poles
G = IEC 60947							
UG = UL98B and IEC60947							
Voltage							
Blank = 1000Vdc							
V = 1500Vdc							



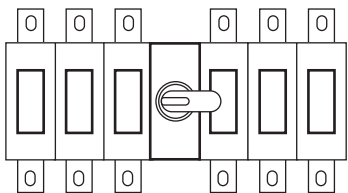
Configuration 02



Configuration 11



Configuration 22



Configuration 33

OTDC S1.0-Series IEC and UL

Technical data



OTDC100...250E/U_

Technical data according to IEC 60947 for switch-disconnectors OTDC100...250E_

Switch size			OTDC100E	OTDC160E	OTDC200E	OTDC250E
Rated insulation voltage U_i	Pollution degree 3	V	1500	1500	1500	1500
Rated impulse withstand voltage		kV	12	12	12	12
Rated thermal current I_{th}^2	In open air, normal conditions ¹	A	100	160	200	250
	In enclosure 40°C	A	96	154	193	241
	In enclosure 50°C	A	89	142	177	222
	In enclosure 60°C	A	80	128	160	200
...with cable or bar cross section	Cu	mm ²	35	70	95	120
Rated operational current DC-21B, poles in series	1000 V	1 circuit 2P (1P+, 1P-)	A	100	160	200
		2 circuits 4P (2P+, 2P-)	A	100	160	200
		3 circuits 6P (3P+, 3P-)	A	100	160	200
Rated short-time withstand current, 1000 V	R.M.S. -value I_{cw}	1s	kA	5	5	5
		0.1s	kA	10	10	10
Power loss / pole	At rated current	W	2	4	6	9,5
Terminal bolt size	Metric thread diameter x length	mm	M8x25	M8x25	M8x25	M8x25
Terminal tightening torque	Counter torque required	Nm	15...22	15...22	15...22	15...22

¹ Normal conditions defined in IEC 60947-1, section 6.1² Ambient max. average 24h

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC100...200U_

Suitable for use in photovoltaic systems in accordance with Article 690 of the NEC.

Switch size			OTDC100U	OTDC200U
UL Listed	Standard		UL98B	UL98B
Rated ambient temperature		°C	-20...+50	-20...+50
Rated current	1000 V	1 circuit 2P (1P+, 1P-)	A	100
		2 circuits 4P (2P+, 2P-)	A	100
		3 circuits 6P (3P+, 3P-)	A	100
Short circuit rating	1000 V		kA	10
Protection type			Circuit breaker	Circuit breaker
Mechanical lug			OZXA200	OZXA200
Wire range	Cu/Al		AWG 4-300MCM	AWG 4-300MCM
Tightening torque		lb-in.	200	200
Technical data according to IEC 60947	See IEC table for type		OTDC160E	OTDC250E

OTDC S2.0-Series IEC and UL

Technical data



OTDC100...250_G_

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC100UG_...250UG_

Suitable for use in photovoltaic systems in accordance with Article 690 of the NEC.

Switch size					OTDC100UG_	OTDC200UG_	OTDC250UG_
UL Listed	Standard				UL98B	UL98B	UL98B
Rated ambient temperature without derating				°C	-20...+50	-20...+50	-20...+50
Rated current	1000 V	1 circuit	2P (1P+,1P-)	A	100	200	250
		2 circuits	4P (2P+,2P-)	A	100	200	250
	1500 V	1 circuit	2P (1P+,1P-)	A	100	200	250
		2 circuits	4P (2P+,2P-)	A	100	200	250
Short circuit rating	1500 V				10	10	10
Required protection²					Any	Any	Any
Mechanical lug					OZXA 100	OZXA 200	OZXA 252
Wire range					AWG 14-2/0	AWG 4-300MCM	2 X AWG 14-2/0
Tightening torque				lb-in.	35-50	200	120
Technical data according to IEC 60947	See IEC table for type				OTDC160G_	OTDC250G_	OTDC250G_

¹ For more detailed derating please consult us. Installation condition may have an influence on the derating. The given deratings are references based on specific test setup.

² Any suitable PV fuse or PV circuit breaker

OTDC S2.0-Series for higher short-circuit currents IEC and UL

Technical data



OTDC100...250_G_

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC100UG_...250UG_-ESS

Suitable for use in photovoltaic systems in accordance with Article 690 of the NEC.

Switch size				OTDC100UG_-ESS		OTDC200UG_-ESS	OTDC250UG_-ESS	
UL Listed		Standard		UL98B		UL98B	UL98B	
Rated ambient temperature				°C	-20...+50	-20...+50	-20...+50	
Rated current ¹		1000 V	1 circuit	2P (1P+, 1P-)	A	100	200	250
			2 circuits	4P (2P+, 2P-)	A	100	200	250
		1500 V	1 circuit	2P (1P+, 1P-)	A	100	200	250
			2 circuits	4P (2P+, 2P-)	A	100	200	250
Short circuit rating		1500 V		R.M.S. -value	kA	10	10	10
Required protection ²					Any	Any	Any	
Short circuit rating		1500 VDC		kA	30	30	30	
Required protection ³		Max. ETI fuse size gPV, L/R= 1ms		A	100	200	250	
Mechanical lug					OZXA 100		OZXA 200	OZXA 252
Wire range					AWG 14-2/0		AWG 4-300MCM	2 X AWG 14-2/0
Tightening torque					lb-in.	35-50	200	120
Technical data according to IEC 60947		See IEC table for type			OTDC160G_		OTDC250G_	OTDC250G_

¹ For more detailed derating please consult us. Installation condition may influence on the derating. The given deratings are references based on specific test setup.

² Any suitable PV fuse or PV circuit breaker

³ 100A Fuse manufacturer, size and type: ETI, Cat.no 004110 followed by 562, 593 or 608

200A Fuse manufacturer, size and type: ETI, Cat.no 004110 followed by 565, 596, 611, 566, 597 or 612

250A Fuse manufacturer, size and type: ETI, Cat.no 004110 followed by 567, 598 or 613

OTDC S1.0-Series 100...250A

Ordering information, IEC and UL



OTDC100...250_11

The OTDC S1.0-Series is specially designed for DC applications up to 1000Vdc in the current range from 100A up to 250A. The switch has one of the smallest physical footprints and lowest power losses in the market. Handles and shafts are not included.

IEC ordering information

DC ordering information						
	Rated operational current [A]	Number of Circuits	Circuit ¹	Number of poles	Single package Type ²	Order number
Voltage [Vdc]	DC-21B					
Front operated, mechanism between the poles						
1000	100	1	2a, 2b	2	OTDC100E11	1SCA125821R1001
1000	160	1	2a, 2b	2	OTDC160E11	1SCA123745R1001
1000	200	1	2a, 2b	2	OTDC200E11	1SCA125626R1001
1000	250	1	2a, 2b	2	OTDC250E11	1SCA125865R1001
1000	100	2	4a, 4c	4	OTDC100E22	1SCA125824R1001
1000	160	2	4a, 4c	4	OTDC160E22	1SCA125844R1001
1000	200	2	4a, 4c	4	OTDC200E22	1SCA125856R1001
1000	250	2	4a, 4c	4	OTDC250E22	1SCA125869R1001
1000	100	3	7a, 7e	6	OTDC100E33	1SCA149066R1001
1000	160	3	7a, 7e	6	OTDC160E33	1SCA149065R1001
1000	200	3	7a, 7e	6	OTDC200E33	1SCA149067R1001

UL ordering information

Rated operational current [A]		Number of Circuits	Circuit ¹	Number of poles	Single package		
Voltage [Vdc]	UL98B				IEC60947-3	Type ²	Order number
Front operated, mechanism between the poles							
1000	100	100	1	2a, 2b	2	OTDC100U11	1SCA123957R1001
1000	200	200	1	2a, 2b	2	OTDC200U11	1SCA123767R1001
1000	100	100	2	4a, 4c	4	OTDC100U22	1SCA126180R1001
1000	200	200	2	4a, 4c	4	OTDC200U22	1SCA126129R1001
1000	100	100	3	7a, 7e	6	OTDC100U33	1SCA149069R1001
1000	200	200	3	7a, 7e	6	OTDC200U33	1SCA149090R1001

¹ Please see floating circuit on page 9-91 and grounded circuits from page 9-117 – 9-118. Single circuit 1a and double circuit 3 with connection bar kit accessories.

² Phase barriers are included in types OTDC100...250_22/33 - installation mandatory.
You can find the accessories starting from page 9-109.

OTDC S2.0-Series 100...250A

Ordering information, IEC and UL



OTDC100...250_GV11

Robust DC switch-disconnector for up to 1500V DC applications covering 100-250A current range. The new design has a more compact size, higher efficiency and higher performance.

The two-pole 1500V DC concept helps manufacturers improve system efficiency, reducing switch power losses up to 75%. The physical footprint is up to 70% smaller than other solutions in the market. The compact size of the new OTDC range makes it possible for manufacturers to reduce the size of enclosures. Handles, shafts or other hardware are not included.

IEC ordering information

Voltage [Vdc]	Rated operational Current [A]		Number of Circuits	Circuit ¹	Number of poles	Single package		Bulk package	
	DC-21B	DC-PV2				Type ²	Order number	Type ³	Order number
Front operated, mechanism between the poles									
1500	100	100	1	2a, 2b	2	OTDC100GV11	1SCA161932R1001	OTDC100GV11/280	1SCA162002R1001
1500	160	100	1	2a, 2b	2	OTDC160GV11	1SCA161933R1001	OTDC160GV11/280	1SCA162004R1001
1500	200	100	1	2a, 2b	2	OTDC200GV11	1SCA161938R1001	OTDC200GV11/280	1SCA162005R1001
1500	250	100	1	2a, 2b	2	OTDC250GV11	1SCA161996R1001	OTDC250GV11/280	1SCA162007R1001
1500	100	100	2	4a, 4c	4	OTDC100GV22	1SCA161976R1001	–	–
1500	160	100	2	4a, 4c	4	OTDC160GV22	1SCA161985R1001	–	–
1500	200	100	2	4a, 4c	4	OTDC200GV22	1SCA161989R1001	–	–
1500	250	100	2	4a, 4c	4	OTDC250GV22	1SCA161939R1001	–	–
Side operated, mechanism at the end of the switch									
1500	100	100	1	2a, 2b	2	OTDC100GV02S	1SCA161974R1001	–	–
1500	160	100	1	2a, 2b	2	OTDC160GV02S	1SCA161982R1001	–	–
1500	200	100	1	2a, 2b	2	OTDC200GV02S	1SCA161986R1001	–	–
1500	250	100	1	2a, 2b	2	OTDC250GV02S	1SCA161995R1001	–	–

UL ordering information

Voltage [Vdc]	Rated operational Current [A]		Number of		Number of poles	Single package Type ²	Order number	Bulk package	
	UL98B	IEC60947-3	Circuits	Circuit ¹				Type ³	Order number
Front operated, mechanism between the poles									
1500	100	160	1	2a, 2b	2	OTDC100UGV11	1SCA161978R1001	OTDC100UGV11/280	1SCA162003R1001
1500	200	250	1	2a, 2b	2	OTDC200UGV11	1SCA161991R1001	OTDC200UGV11/280	1SCA162006R1001
1500	250	250	1	2a, 2b	2	OTDC250UGV11	1SCA161942R1001	OTDC250UGV11/280	1SCA162008R1001
1500	100	160	2	4a, 4c	4	OTDC100UGV22	1SCA161981R1001	–	–
1500	200	250	2	4a, 4c	4	OTDC200UGV22	1SCA161994R1001	–	–
1500	250	250	2	4a, 4c	4	OTDC250UGV22	1SCA162001R1001	–	–
Side operated, mechanism at the end of the switch									
1500	100	160	1	2a, 2b	2	OTDC100UGV02S	1SCA161977R1001	–	–
1500	200	250	1	2a, 2b	2	OTDC200UGV02S	1SCA161990R1001	–	–
1500	250	250	1	2a, 2b	2	OTDC250UGV02S	1SCA161940R1001	–	–

* Please consult us for 1000Vdc types

¹ Please see floating circuit on page 9-102 and the grounded circuits on page 9-117 - single circuit 1a and double circuit 3 with connection bar kit accessories.

² Phase barriers are included to pole configurations _22/_02 - Installation mandatory.

³ Bulk package includes 280pcs of switches in FIN-pallet (LxWxH) 1200mm x 1000mm x 1200mm. The bulk package contains only switches and one installation instruction.

You can find the accessories starting from page 9-109.

OTDC S2.0-Series 100...250A for higher short-circuit currents

Ordering information, IEC and UL



OTDC100...250_GV11-ESS

Robust DC switch-disconnector for up to 1500V DC applications covering 100-250A current range. These new switches have higher short-circuit ratings. Handles and shafts are not included.

IEC ordering information

Voltage [Vdc]	Rated operational current [A]		Number of circuits	Circuit ¹	Number of poles	Type	Single package
	DC-21B	DC-PV2					Order number
Front operated, mechanism between the poles							
1500	100	100	1	2a, 2b	2	OTDC100GV11-ESS	1SCA161975R1001
1500	160	100	1	2a, 2b	2	OTDC160GV11-ESS	1SCA161983R1001
1500	200	100	1	2a, 2b	2	OTDC200GV11-ESS	1SCA161987R1001
1500	250	100	1	2a, 2b	2	OTDC250GV11-ESS	1SCA161997R1001

UL ordering information

Voltage [Vdc]	Rated operational current [A]		Number of circuits	Circuit ¹	Number of poles	Type	Single package
	UL98B	IEC60947-3					Order number
Front operated, mechanism between the poles							
1500	100	160	1	2a, 2b	2	OTDC100UGV11-ESS	1SCA161979R1001
1500	200	250	1	2a, 2b	2	OTDC200UGV11-ESS	1SCA161992R1001
1500	250	250	1	2a, 2b	2	OTDC250UGV11-ESS	1SCA161999R1001

* Please consult us for 1000 Vdc types

¹ Please see the floating circuit from page 9-102 and the grounded circuits from page 9-117 and 9-118- single circuit 1a and double circuit 3 with connection bar kit accessories.

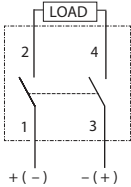
You can find the accessories starting from page 9-109.

OTDC S1.0 and S2.0 circuits

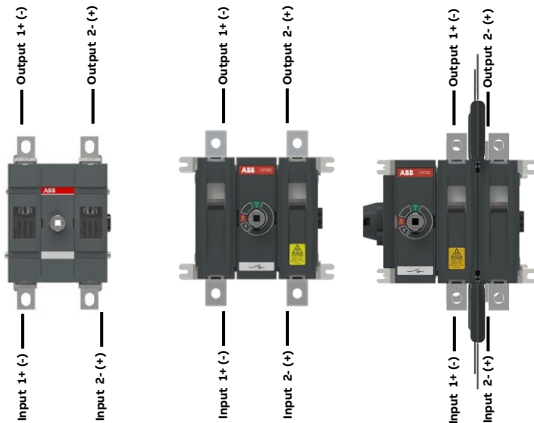
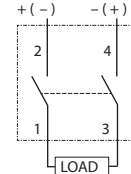
Ordering information, IEC and UL

Single circuit 2a, 2b

2-pole, 4-wire, 1-circuit

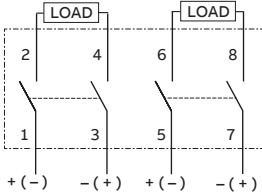


2-pole, 4-wire, 1-circuit
REVERSED SUPPLY

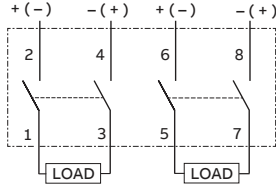


Double circuit 4a, 4c

4-pole, 4-wire, 2-circuit

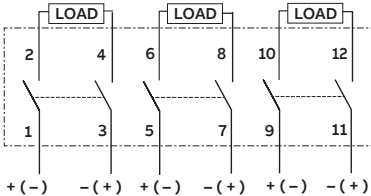


4-pole, 4-wire, 2-circuit
REVERSED SUPPLY

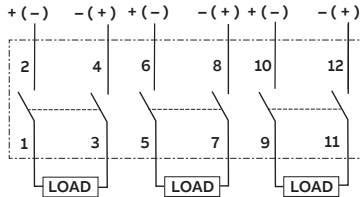


Triple circuit 7a, 7e

6-pole, 12-wire, 3-circuit



6-pole, 12-wire, 3-circuit
REVERSED SUPPLY

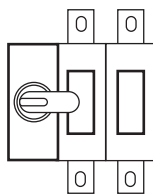


Overview of product range OTDC M-Series

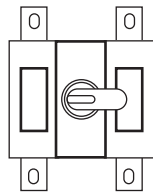
Type codes and pole configuration table

Explanation of the types OTDC M-Series from 315A up to 1000A (IEC) and 250A up to 1000A (UL98B)

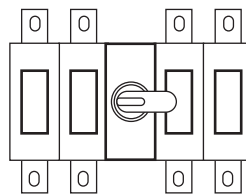
OTDC		400	UF	V	11	S	-ESS
ABB brand							Application
DC switch-disconnector							Blank = Rated short-time withstand current 10kA
							ESS = Rated condition short-circuit current >10kA
Switch size / Ampere rating							
IEC = 315A, 400A, 500A, 630A, 800A, 1000A							
UL = 250A, 320A, 400A, 600A, 800A, 1000A							
Standard							Operation mode
F = IEC 60947							Blank = Front operation (handle not included)
UF = UL98B and IEC60947							S = Side operation (handle not included)
Voltage							Number of poles
Blank = 1000Vdc							11 = Two poles, mechanism between the poles
V = 1500Vdc							02 = Two poles, mechanism at the end of the switch
							22 = Four poles, mechanism between the poles
							33 = Six poles, mechanism between the poles



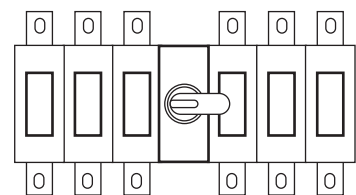
Configuration 02



Configuration 11



Configuration 22



Configuration 33

OTDC M-Series UL

Technical data



Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC250U_...1000UF_
Suitable for use in photovoltaic systems in accordance with Article 690 of the NEC.

Switch size					OTDC250UF_	OTDC320UF_	OTDC400UF_	OTDC600UF_	OTDC800UF_22	OTDC1000UF_22
UL Listed	Standard				UL98B	UL98B	UL98B	UL98B	UL98B	UL98B
Rated ambient temperature					°C	-20...+50	-20...+50	-20...+50	-20...+50	-20...+50
Rated current ¹	1000 V	1 circuit	2P (1P+, 1P-)	A	250	320	400	600	800 ²	1000 ²
		2 circuits	4P (2P+, 2P-)	A	250	320	400	600	-	-
	1500 V	1 circuit	2P (1P+, 1P-)	A	250	320	400	600	800 ²	1000 ²
		2 circuits	4P (2P+, 2P-)	A	250	320	400	600	-	-
Short circuit rating										
Required protection ³	1500 V			kA	10 Any	10 Any	10 Any	10 Any	10 Any	10 Any
Mechanical lug					OZXA 402	OZXA 402	OZXA 402	OZXA 604	OZXA 804	OZXA 804
Wire range					2x AWG 6-300MCM	2x AWG 6-300MCM	2x AWG 6-300MCM	4x AWG 6-300MCM	4x AWG 2-600MCM	4x AWG 2-600MCM
Tightening torque					lb-in.	275	275	275	500	500
Technical data according to IEC 60947					OTDC315F_	OTDC400F_	OTDC500F_	OTDC630F_	OTDC800F_22	OTDC1000F_22
See IEC table for type										

¹ For more detailed derating please consult us. Installation condition may influence on the derating. The given deratings are references based on specific test setup.

² 4-pole-types with 2-poles in parallel_22 models, OTDCKIT800FS11 is included to the package and installation is mandatory

³ Any suitable PV fuse or PV circuit breaker

OTDC M-Series for higher short-circuit currents UL

Technical data



OTDC250...400UF_11-ESS



OTDC800...1000UF_22-ESS

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC250...1000UF_-ESS

Suitable for use in photovoltaic systems in accordance with article 690 of the NEC.

Switch size				OTDC 250UF_-ESS	OTDC 320UF_-ESS	OTDC 400UF_-ESS	OTDC 800UF_22-ESS	OTDC 1000UF_22-ESS
UL listed	Standard			UL98B	UL98B	UL98B	UL98B	UL98B
Rated ambient temperature without de-rating ¹	°C			-20...+50 °C	-20...+50 °C	-20...+50 °C	-20...+50 °C	-20...+50 °C
Rated current	1000 V	1 circuit	2P	A	250	320	400	800 ³
	1500 V			A	250	320	400	800 ³
Short-circuit rating	1500 V	R.M.S. -value	kA	10	10	10	40	40
Required protection				Any ⁴	Any ⁴	Any ⁴	Any ⁴	Any ⁴
Short-circuit rating	1500 V		kA	30	30	30	-	-
Required protection	Max. ETI fuse size gPV, L/R= 1 ms		A	400 ²	400 ²	400 ²	-	-
Mechanical lug				OZXA 402	OZXA 402	OZXA 402	OZXA 804	OZXA 804
Wire range	MCM			2x AWG	2x AWG	2x AWG	4x AWG	4x AWG
				6-300MCM	6-300MCM	6-300MCM	2-600MCM	2-600MCM
Terminal tightening torque	lb-in.			275	275	275	500	500
Technical data according to IEC 60947	See IEC table for type			OTDC 315F_-ESS	OTDC 400F_-ESS	OTDC 500F_-ESS	OTDC 800F_22-ESS	OTDC 1000F_22-ESS

¹ For more detailed derating please consult us. Installation condition may have an influence on the derating. The given deratings are references based on specific test setup.

² Fuse manufacturer, size and type: ETI, 400A, Cat.no 004110 followed by 632, 637 or 642. More details from the fuse manufacturer catalog.

³ 4-pole-types with 2-poles in parallel _22 models, OTDCKIT800FS11 is included in the package and installation is mandatory

⁴ Any suitable PV fuse or PV circuit breaker

OTDC M-Series 250...1000A

Ordering information, UL



OTDC 250...600UF_11

Robust DC switch-disconnector for up to 1500V DC applications. The new design has a more compact size, higher efficiency and performance. The two-pole 1500V DC design that reduces switch power losses up to 50%. The physical footprint is up to 80% smaller than other solutions in the market. Handles and shafts are not included.

Voltage [Vdc]	Rated operational current [A]		Number of circuits	Circuit ¹	Number of poles	Single package	Order number
	UL98B	IEC60947-3				Type ²	
Front operated, mechanism between the poles							
1000	250	315	1	2a, 2b	2	OTDC250UF11	1SCA158160R1001
1000	320	400	1	2a, 2b	2	OTDC320UF11	1SCA158184R1001
1000	400	500	1	2a, 2b	2	OTDC400UF11	1SCA158209R1001
1000	600	630	1	2a, 2b	2	OTDC600UF11	1SCA158233R1001
1000	800	800	1	6c, 6g	4	OTDC800UF22	1SCA161282R1001
1000	1000	1000	1	6c, 6g	4	OTDC1000UF22	1SCA161290R1001
1000	250	315	2	4a, 4c	4	OTDC250UF22	1SCA158292R1001
1000	320	400	2	4a, 4c	4	OTDC320UF22	1SCA158296R1001
1000	400	500	2	4a, 4c	4	OTDC400UF22	1SCA158300R1001
1000	600	630	2	4a, 4c	4	OTDC600UF22	1SCA158304R1001
1500	250	800	1	2a, 2b	2	OTDC250UFV11	1SCA158166R1001
1500	320	630	1	2a, 2b	4	OTDC320UFV11	1SCA158190R1001
1500	400	800	1	2a, 2b	4	OTDC400UFV11	1SCA158215R1001
1500	600	315	1	2a, 2b	2	OTDC600UFV11	1SCA158239R1001
1500	800	800	1	6c, 6g	4	OTDC800UFV22	1SCA161284R1001
1500	1000	1000	1	6c, 6g	4	OTDC1000UFV22	1SCA161292R1001
1500	250	315	2	4a, 4c	4	OTDC250UFV22	1SCA158293R1001
1500	320	400	2	4a, 4c	4	OTDC320UFV22	1SCA158297R1001
1500	400	500	2	4a, 4c	4	OTDC400UFV22	1SCA158301R1001
1500	600	630	2	4a, 4c	4	OTDC600UFV22	1SCA158305R1001
Side operated, mechanism at the end of the switch							
1000	250	315	1	2a, 2b	2	OTDC250UF02S	1SCA161224R1001
1000	320	400	1	2a, 2b	2	OTDC320UF02S	1SCA161228R1001
1000	400	500	1	2a, 2b	2	OTDC400UF02S	1SCA161234R1001
1000	600	630	1	2a, 2b	2	OTDC600UF02S	1SCA161258R1001
1500	250	315	1	2a, 2b	2	OTDC250UFV02S	1SCA161243R1001
1500	320	400	1	2a, 2b	2	OTDC320UFV02S	1SCA161249R1001
1500	400	500	1	2a, 2b	2	OTDC400UFV02S	1SCA161256R1001
1500	600	630	1	2a, 2b	2	OTDC600UFV02S	1SCA161264R1001

¹ Circuit connection 6c, 6g - Connection bar kit OTDCKIT800FS11 included with the package - Installation mandatory

Please see floating circuit on page 9-108 and the grounded circuits on page 9-117 – 9-118. Single circuit 1a and double circuit 3 with connection bar kit accessories.

² Phase barriers are included to pole configurations _22/_02 - Installation mandatory.

You can find the accessories starting from page 9-109.

OTDC M-Series 250...1000A for higher short-circuit current

Ordering information, IEC and UL



OTDC315_630_F_11-ESS

Robust DC switch-disconnector for up to 1500V DC applications covering 315-1000A (IEC) and 250-1000A (UL) current range. The new design offers higher short-circuit ratings for the OTDC switches up to 100kA. Handles and shafts are not included.

IEC ordering information

Voltage [Vdc]	Rated operational current [A]		Number of circuits	Circuit ¹	Number of poles	Single package	Order number
	DC-21B	DC-PV2				Type	
Front operated, mechanism between the poles							
1000	315	315	1	2a, 2b	2	OTDC315F11-ESS	1SCA158173R1001
1000	400	400	1	2a, 2b	2	OTDC400F11-ESS	1SCA158197R1001
1000	500	500	1	2a, 2b	2	OTDC500F11-ESS	1SCA158221R1001
1000	630	500	1	2a, 2b	2	OTDC630F11-ESS	1SCA158245R1001
1000	800	-	1	6c, 6g	4	OTDC800F22-ESS	1SCA161279R1001
1000	1000	-	1	6c, 6g	4	OTDC1000F22-ESS	1SCA161287R1001
1500	315	315	1	2a, 2b	2	OTDC315FV11-ESS	1SCA158179R1001
1500	400	400	1	2a, 2b	2	OTDC400FV11-ESS	1SCA158203R1001
1500	500	500	1	2a, 2b	2	OTDC500FV11-ESS	1SCA158227R1001
1500	630	500	1	2a, 2b	2	OTDC630FV11-ESS	1SCA158251R1001
1500	800	-	1	6c, 6g	4	OTDC800FV22-ESS	1SCA161281R1001
1500	1000	-	1	6c, 6g	4	OTDC1000FV22-ESS	1SCA161289R1001

UL ordering information

Rated operational current [A]					Single package		
Voltage [Vdc]	UL98B	IEC60947-3	Number of circuits	Circuit ¹	Number of poles	Type	Order number
Front operated, mechanism between the poles							
1000	250	315	1	2a, 2b	2	OTDC250UF11-ESS	1SCA158161R1001
1000	320	400	1	2a, 2b	2	OTDC320UF11-ESS	1SCA158185R1001
1000	400	500	1	2a, 2b	2	OTDC400UF11-ESS	1SCA158210R1001
1000	800	800	1	6c, 6g	4	OTDC800UF22-ESS	1SCA161283R1001
1000	1000	1000	1	6c, 6g	4	OTDC1000UF22-ESS	1SCA161291R1001
1500	250	800	1	2a, 2b	2	OTDC250UFV11-ESS	1SCA158167R1001
1500	320	630	1	2a, 2b	4	OTDC320UFV11-ESS	1SCA158191R1001
1500	400	800	1	2a, 2b	4	OTDC400UFV11-ESS	1SCA158216R1001
1500	800	800	1	6c, 6g	4	OTDC800UFV22-ESS	1SCA161285R1001
1500	1000	1000	1	6c, 6g	4	OTDC1000UFV22-ESS	1SCA161293R1001

¹ Circuit connection 6c, 6g - Connection bar kit OTDCKIT800FS11 included with the package - Installation mandatory

Please see floating circuit on page 9-108 and the grounded circuits on page 9-117 – 9-118. Single circuit 1a and double circuit 3 with connection bar kit accessories.

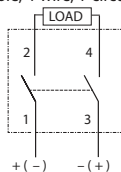
You can find the accessories starting from page 9-109.

OTDC M circuits IEC and UL

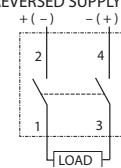
Ordering information, IEC and UL

Single circuit 2a, 2b

2-pole, 4-wire, 1-circuit

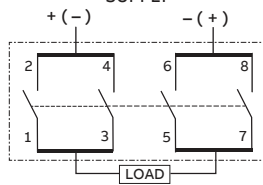


2-pole, 4-wire, 1-circuit
REVERSED SUPPLY

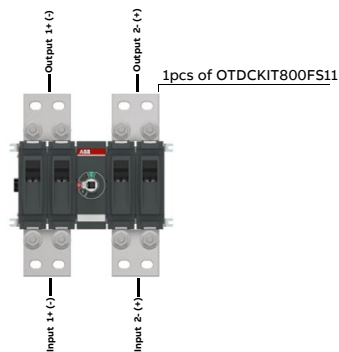
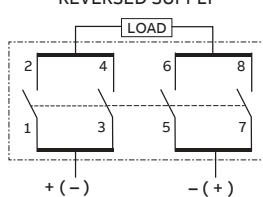


Single circuit 6c, 6g

4-pole, 4-wire
1-circuit
SUPPLY

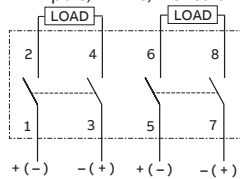


4-pole, 4-wire
1-circuit
REVERSED SUPPLY

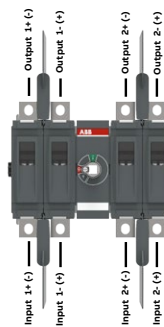
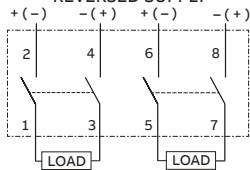


Double circuit 4a, 4c

4-pole, 4-wire, 2-circuit

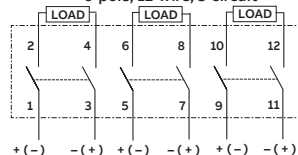


4-pole, 4-wire, 2-circuit
REVERSED SUPPLY

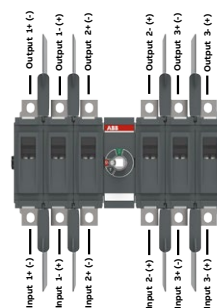
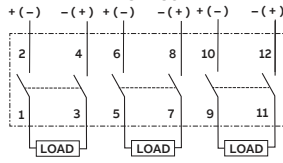


Triple circuit 7a, 7e

6-pole, 12-wire, 3-circuit



6-pole, 12-wire, 3-circuit
REVERSED SUPPLY



DC switch-disconnectors accessory guide

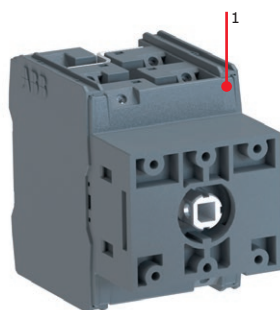
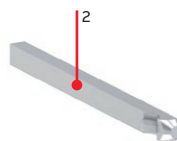
XS-Series

1. Switch-disconnector
2. Shaft
3. Selector handle (options for direct mount or external mount with a shaft available)
4. Legend plate

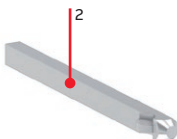
Please note that not all listed accessories are automatically included in your order.
See next page for recommendations.



Base mounted



Door mounted



NOTE: The information in this image applies to both IEC and UL versions of the depicted product.

DC switch-disconnectors accessory guide

S and M-Series

1. Switch-disconnector
2. Shaft
3. Pistol handle
4. Direct mount handle
5. Phase barrier
6. Connection bar
7. Shroud
8. Auxiliary contact
9. Mechanical lug
10. Mechanical & Electrical interlock

Please note that not all listed accessories are automatically included in your order.

See next page for recommendations.



Ordering information for accessories IEC and UL

Handle knobs



—
OHBS1



—
OHRS2



—
OHRS3

Handle knobs for base and DIN rail mounted switches

Mounting directly to the switch, no shaft needed, for base and DIN-rail mounted switches. Padlockable with one padlock with bail diameter 5 mm, see the table below. OTDC16...32F_ types already include knob handles in the delivery. For OTDC16...32U_ types, knob handles need to be ordered separately.

Color	Handle length [mm]	Type	Order number
Suitable for switches OTDC16...32_			
Black	31	OHBS1	1SCA109087R1001
Black	31	OHBS1/1	1SCA109088R1001
Red	31	OHRS1	1SCA109095R1001
Red	31	OHRS1/1	1SCA109096R1001
Black	40	OHBS2	1SCA109089R1001
Black	40	OHBS2/1	1SCA109090R1001
Red	40	OHRS2	1SCA108598R1001
Red	40	OHRS2/1	1SCA108599R1001
Black	39	OHBS3	1SCA108320R1001
Black	39	OHBS3/1	1SCA108319R1001
Red	39	OHRS3	1SCA108667R1001
Red	39	OHRS3/1	1SCA108688R1001

Special information for handle knobs

Handle type	Padlockable	Shaft through the handle	45 mm cut-out enable ¹
OHBS1_, OHRS1_	No	No	Yes
OHBS2_, OHRS2_	Yes	No	Yes
OHBS3_, OHRS3_	No	No	Yes

¹ In I-position, the handle shall remain within the cut-out height

Ordering information for accessories IEC and UL

Selector handles and shafts



OHBS3PH



OHBS2PJ



OHYS3RH



OHYS2RJ



OHBS3



OHBS2

Selector handles, for door mounted OTDC16...32_T

Indication I-O and ON-OFF. No separate shaft needed.

Color	Padlocking	Degree of protection	Type	Order number
Snap-on mounting, door drilling 22,5 mm, for OTDC16...32_T				
Black	No padlocking	IP54, NEMA 1	OHBS1PH	1SCA105211R1001
Red-Yellow	No padlocking	IP54, NEMA 1	OHYS1PH	1SCA105294R1001
Black	Yes with 1 padlock	IP54, NEMA 1	OHBS3PH	1SCA105236R1001
Red-Yellow	Yes with 1 padlock	IP54, NEMA 1	OHYS3PH	1SCA105327R1001
Black	Yes with max.3 padlocks	IP65, NEMA 1, 3R, 12	OHBS2PJ	1SCA105231R1001
Red-Yellow	Yes with max.3 padlocks	IP65, NEMA 1, 3R, 12	OHYS2PJ	1SCA105322R1001
Screw mounting, hole distance 36 mm, for OTDC16...32_T				
Black	No padlocking	IP54, NEMA 1	OHBS1RH	1SCA105212R1001
Red-Yellow	No padlocking	IP54, NEMA 1	OHYS1RH	1SCA105295R1001
Black	Yes with 1 padlock	IP54, NEMA 1	OHBS3RH	1SCA105237R1001
Red-Yellow	Yes with 1 padlock	IP54, NEMA 1	OHYS3RH	1SCA105328R1001
Black	Yes with max.3 padlocks	IP65 ¹ , NEMA 1, 3R, 12	OHBS2RJ	1SCA105232R1001
Red-Yellow	Yes with max.3 padlocks	IP65 ¹ , NEMA 1, 3R, 12	OHYS2RJ	1SCA105323R1001

¹ hole distance 36/48 mm

Selector handles for base and DIN-rail mounted OTDC16...32_

Indication I-O and ON-OFF, for shaft diameter 6 mm, door drilling 22.5 mm. Shafts are not included

Color	Padlocking and door interlock	Degree of Protection	Type	Order number
Black	No padlocking	IP54, NEMA 1	OHBS1AH	1SCA102680R1001
Black	No padlocking, door interlocking in ON-position	IP54, NEMA 1	OHBS1AH1	1SCA105210R1001
Black	With 1 padlock (bail diameter 5...6.3 mm)	IP54, NEMA 1	OHBS3AH	1SCA105234R1001
Black	With 1 padlock (bail diameter 5...6.3 mm), door interlocking in ON-position	IP54, NEMA 1	OHBS3AH1	1SCA105235R1001
Black	With max.3 padlocks (bail diameter 5...8mm), door interlocking in ON-position, defetable	IP65, NEMA 1, 3R, 12	OHBS2AJ	1SCA105213R1001
Black	With max.3 padlocks (bail diameter 5...8mm), door interlocking in ON-position	IP65, NEMA 1, 3R, 12	OHBS2AJ1	1SCA105215R1001
Selector handle with metal hasp				
Black	With max.3 padlocks (bail diameter 5...8mm), door interlocking in ON-position, defetable	IP65, NEMA 1, 3R, 12	OHBS2AJEH	1SCA108230R1001
Black	With max.3 padlocks (bail diameter 5...8mm), door interlocking in ON-position, non-defetable	IP65, NEMA 1, 3R, 12	OHBS2AJ1EH	1SCA105217R1001

Door interlocking in ON-position prevents the door from opening when the handle is in ON-position. This can be defeated in IP65 types to allow authorized personnel access for inspection. The padlocked handle is not defeatable.

Shafts for selector handles

Shaft length [mm]	H [mm]	Type	Order number
Suitable for switches OTDC16...32_ shaft diameter 6 mm			
85		OX56X85	1SCA101647R1001
105		OX56X105	1SCA108043R1001
120		OX56X120	1SCA101654R1001
130		OX56X130	1SCA101655R1001
160		OX56X160	1SCA101656R1001
180		OX56X180	1SCA101659R1001
250		OX56X250	1SCA101660R1001



OX56X_

Ordering information for accessories IEC and UL

Handles



— OTDV200GK



— OTDV400FK1



— OHB_

Direct mount handles for front operated OTDC switch-disconnectors

Indication Test-OFF-ON/Test-O-I. Padlockable with three padlocks in OFF-position. Includes shaft and mechanism cover.

Color	Handle length [mm]	Suitable for switches	Type	Order number
Black	65	OTDC S1.0 - OTDC100...250E_	OTDV250EK	1SCA127390R1001
Red-Yellow		OTDC100...200U_	OTDVY250EK	1SCA127391R1001
Black	65	OTDC S2.0 - OTDC100...250G_	OTDV200GK	1SCA161864R1001
		OTDC100...250UG_		
Black	95	OTDC M - OTDC315...1000F_	OTDV400FK1	1SCA157315R1001
Black	145	OTDC250...1000UF_ ¹	OTDV400FK2	1SCA157316R1001

¹ Recommend length: 95 mm for 2-pole configuration, 145 mm for 4- and 6-pole configurations.

Pistol handles OH_ handles for front operation: IP 65, NEMA 1,3R, 12

Padlockable with three padlocks in OFF-position, door interlock in ON-position. Screw fixing from the back side of the handle ensures double insulation.

Color	Handle length [mm]	Shaft diameter	Suitable for switches	Type	Order number
Indication in types OHB and OHY: I-O, ON-OFF, in types OHG: I-O					
Black	65	6	OTDC S1.0 - OTDC100...250E_	OHB65J6	1SCA022380R9660
Red-Yellow	65	6	OTDC100...245U_	OHY65J6	1SCA022380R9820
			OTDC S2.0 - OTDC100...250G_		
Grey	65	6	OTDC100...250UG_	OHG65J6	1SCA022380R9740
Black	95	12		OHB95J12	1SCA022381R0830
Red-Yellow	95	12		OHY95J12	1SCA022381R1050
Grey	95	12		OHG95J12	1SCA022381R0910
Black	125	12		OHB125J12	1SCA022381R1560
Yellow-red	125	12	OTDC M2.0 - OTDC315...1000F_	OHY125J12	1SCA022381R1720
			OTDC250...1000UF_		
Grey	125	12		OHG125J12	1SCA022381R1640
Black	145	12		OHB145J12	1SCA022381R2110
Yellow-red	145	12		OHY145J12	1SCA022381R2370
Grey	145	12		OHG145J12	1SCA022381R2290
Indication: Test-OFF-ON/Test-O-I					
			OTDC S1.0 - OTDC100...250E_		
			OTDC100...245U_		
Black	65	6	OTDC S2.0 - OTDC100...250G_	OHB65J6T	1SCA022399R8110
			OTDC100...250UG_		
Black	95	12	OTDC M2.0 - OTDC315...1000F_	OHB95J12T	1SCA022736R1750
Black	125	12	OTDC250...1000UF_	OHB125J12T	1SCA022652R2220

Door interlocking in ON-position prevents the door from opening when the handle is in ON-position. This can be defeated in IP65 types to allow authorized personnel access for inspection. NEMA 4, 4x pistol handles available on request. Handles padlockable in all positions available on request.

Stainless steel pistol handles OHM_ for front operation: IP 66, NEMA 4X

IP66 (NEMA 4X). Material: AISI 316. Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position.

Color	Handle length [mm]	Shaft diameter	Suitable for switches	Type	Order number
Indication in types: I-O, ON-OFF					
Grey	65	6	OTDC S1.0 - OTDC100...250E_	OHM65L6	1SCA022739R1070
			OTDC100...245U_		
			OTDC S2.0 - OTDC100...250G_		
			OTDC100...250UG_		
Grey	125	12	OTDC M2.0 - OTDC315...1000F_	OHM125L12	1SCA022739R1150
			OTDC250...1000UF_		

Ordering information for accessories IEC and UL

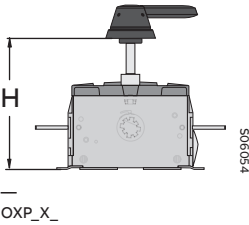
Handles and shafts



Pistol handles OH_ handles for side operation: IP 65, NEMA 1,3R, 12
For mounting on the side of the enclosure. Padlockable with three padlocks in OFF-position, door interlock in ON-position. The position indications are rotated 90°.

Color	Handle length [mm]	Shaft diameter	Suitable for switches	Type	Order number
Indication in types OHB and OHY: I-O/ON-OFF					
Black	65	6	OTDC S2.0 - OTDC100...250G_ OTDC100...250UG_	OHB65J6E00S	1SCA022382R9850
Red-yellow	65	6		OHY65J6E00S	1SCA022382R9930
Black	145	12	OTDC M2.0 - OTDC315...630F_ OTDC250...600UF_	OHB145J12E00S	1SCA022679R9700
Indication in type OHB : Test/I-O/ON-OFF					
Black	65	6	OTDC S2.0 - OTDC100...250G_ OTDC100...250UG_	OHB65J6TE00S	1SCA109016R1001

Shafts for pistol handles



Mounting depth H [mm]				
Shaft length [mm]	OTDC S1.0	OTDC S2.0	Type	Order number
Suitable for switches OTDC S1.0 and OTDC S2.0, shaft diameter 6 mm				
130	109...174	120...188	EXP6X130	1SCA022057R0570
150	129...194	140...208	EXP6X150	1SCA022295R5600
161	140...205	151...219	EXP6X161	1SCA022067R1760
210	189...254	200...268	EXP6X210	1SCA022295R6080
Suitable for switches OTDC M - OTDC315...1000F_ OTDC250...1000UF_, shaft diameter 12 mm				
166	146...226	—	EXP12X166	1SCA022325R7100
185	165...255	—	EXP12X185	1SCA022325R6710
250	230...310	—	EXP12X250	1SCA022325R6980
280	260...340	—	EXP12X280	1SCA022137R5140
325	305...385	—	EXP12X325	1SCA022042R5810
395	445...525	—	EXP12X395	1SCA022042R5990
465	439...519	—	EXP12X465	1SCA022042R6020
535	515...595	—	EXP12X535	1SCA022042R6110

Longer shafts available on request
Recommend shafts: 210 mm shaft for OTDC S1.0 and S2.0-Series, 185mm shaft for OTDC M-Series.

Ordering information for accessories IEC and UL

Phase barriers and terminal shroud kits



OTDCB250/2



OTDCB200G/2



OTDCB400F/2



OTS250G1L



OTS250T1L



OTDCS200GG1



OTDCS400FG1

Phase barrier kit
Plastic phase separators for maintaining 1" clearance between the phases without terminal shrouds. Snap-on mounting. Phase barriers included as standard in OTDC switches with pole configuration 02/20/22/33, installation is mandatory.

Color	Suitable for switches	Type	Order number	Pieces/ Package
White	OTDC S1.0 - OTDC100...250E_ OTDC100...200U_	OTDCB250/2	1SCA148901R1001	2
Grey	OTDC S2.0 - OTDC100...250G_ OTDC100...200UG_	OTDCB200G/2	1SCA161883R1001	2
Grey	OTDC M - OTDC315...1000F_ OTDC250...1000UF_	OTDCB400F/2	1SCA157314R1001	2

Terminal shroud kit
Plastic terminal shrouds. The terminal shroud kits for OTDC S2.0 and OTDC M-Series can be used with UL mechanical lugs.

Color	Suitable for switches	Type	Order number	Pieces/ Package
Grey	OTDC S1.0 - OTDC100...250E_ OTDC100...245U_	OTS250G1L	1SCA022715R5340	1
Transparent	OTDC S1.0 - OTDC100...250E_ OTDC100...245U_	OTS250T1L	1SCA022726R0640	1
Grey	OTDC S2.0 - OTDC100...250G_ OTDC100...250UG_	OTDCS200GG1	1SCA161884R1001	1
Grey	OTDC M - OTDC315...800F_ OTDC250...600UF_	OTDCS400FG1	1SCA157308R1001	1
Transparent	OTDC M - OTDC315...800F_ OTDC250...600UF_	OTDCS400FT1	1SCA157309R1001	1

Ordering information for accessories IEC and UL

Connection bar kits and circuits



OEZXY91



OTDCKIT250S11



OTDCKIT250GS11



OTDCKIT250GS101



OTDCKIT400FS101



OTDCKIT600FS101



OTDCKIT400FS11



OTDCKIT600FS11



OTDCKIT800FS11

Connection bar kits

The kits include the necessary mounting hardware. The kits include the necessary mounting hardware. Grounded circuits 1a and 3 can be created by installing connection bar kits to OTDC switches.

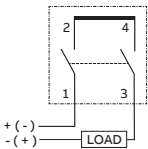







Suitable for switches		Type	Order number	Pieces/ Package
OTDC S1.0	OTDC100...200U_11	OEZXY91	1SCA125290R1001	1
	OTDC100...250E_22, OTDC100...200U_22	OTDCKIT250S11	1SCA148902R1001	1
OTDC S2.0	OTDC100...250_G_11	OTDCKIT250GS101	1SCA161881R1001	1
	OTDC100...250_G_22/02S	OTDCKIT250GS11	1SCA161882R1001	1
OTDC M	OTDC250...400-F_11	OTDCKIT400FS101	1SCA157317R1001	1
	OTDC600...630UF_11	OTDCKIT600FS101	1SCA157319R1001	1
	OTDC250...400-F_22/02S	OTDCKIT400FS11	1SCA157318R1001	2
	OTDC600...630UF_22/02S	OTDCKIT600FS11	1SCA157320R1001	2
	OTDC800...1000-F_22	OTDCKIT800FS11 ¹	1SCA160635R1001	4

¹ Connection bar kit OTDCKIT800FS11 included with the package - Installation mandatory
See grounded circuits 1a and 3 from pages 9-117 – 9-118.

Ordering information for accessories IEC and UL

Connection bar kits and circuits

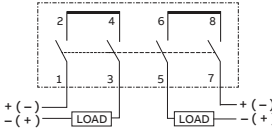




Connection bar kits to create single circuit 1a

	Suitable for switches		Connection bar kit	Order number	Required kit qty	Connection bars pcs/kit
Circuit 1a 2-pole, 2-wire, 1-circuit  For grounded systems	OTDC S1.0	OTDC100...250_11		OEZXY91	1SCA125290R1001	1
		OTDC100...250_G_11		OTDCKIT250GS101	1SCA161881R1001	1
	OTDC S2.0	OTDC100...250_G_02S		OTDCKIT250GS11	1SCA161882R1001	1
		OTDC250...500_F_11		OTDCKIT400FS101	1SCA157317R1001	1
		OTDC600...630_F_11		OTDCKIT600FS101	1SCA157319R1001	1
	OTDC M	OTDC250...400_F_02S		OTDC400FS11	1SCA157318R1001	2
		OTDC600...630_F_02S		OTDC600FS11	1SCA157320R1001	2

Ordering information for accessories IEC and UL

Connection bar kits and circuits

Connection bar kits to create double circuit 3

Suitable for switches			Connection bar kit	Order number	Required kit qty	Connection bars pcs/ kit	
<div><p>Circuit 3</p><p>4-pole, 4-wire, 2-circuit</p></div> <p>For grounded systems</p>	OTDC S1.0	OTDC100...250E_22, OTDC100...200U_22		OTDCKIT250S11	1SCA148902R1001	2	1
	OTDC S2.0	OTDC100...250_G_22		OTDCKIT250GS11	1SCA161882R1001	2	1
		OTDC250...500_F_22		OTDCKIT400FS11	1SCA157318R1001	1	2
	OTDC M	OTDC600...630_F_22		OTDCKIT600FS11	1SCA157320R1001	1	2

Circuit 3, complies with the Australian installation regulations:
1 PV circuit for Australian installations, compliant with AS/NZS 5033 : 2014.
OTDC 2.0 and OTDC M-Series have the mandatory DC-PV2 utilization category ratings, please see the technical data pages for more information.

Ordering information for accessories IEC and UL

Mechanical lugs



OZXA200



OZXA402



OZXA604



OZXA100



OZXA252

Mechanical lugs

Mechanical lugs for Al and Cu cables for IEC OTDC switch-disconnectors

Suitable for switches	Cable cross section [mm²]	Type	Order number	Pieces/ Package
OTDC S1.0 OTDC100...250E_	10...70	OZXB1L/1	1SCA022194R0030	1
	25...120	OZXB2/1	1SCA022194R0200	1
	25...120	OZXB2L/1	1SCA022194R0460	1

Mechanical lugs

Mechanical lugs for Al and Cu cables for UL OTDC switch-disconnectors

Suitable for switches		Wire range AWG	Type	Order number	Kits/ Circuit	Pieces/ Package
OTDC S1.0	OTDC100...200U_	AWG 4 - 300MCM	OZXA-200	1SCD000008R0012	1	4
		AWG 14-10				
OTDC S2.0	OTDC100UG_	AWG 8				
		AWG 6-4				
		AWG 3-2/0	OZXA-100	1SCD000003R0012	1	4
	OTDC100...200UG_	AWG 4 - 300MCM	OZXA-200	1SCD000008R0012	1	4
OTDC M	OTDC250UG_	2 x AWG 14 - 2/0	OZXA-252	1SCD000139R0012	1	4
	OTDC250...400UF_	2 x AWG 6 - 300MCM	OZXA-402	1SCD000138R0012	1	4
	OTDC600UF_	4 x AWG 6 - 300MCM	OZXA-604	1SCA157322R1001	2	4
	OTDC800...1000UF_	4 x AWG 2 - 600MCM	OZXA-804	1SCA161408R1001	2	4

Ordering information for accessories IEC and UL

Auxiliary contacts



OA1G10, OA3G01

Auxiliary contact blocks, IP20
Contact numbering according to EN 50013. The type and the ordering numbers are for one piece.

Auxiliary contacts
Mounting under the mechanism cover.
OTDC S1.0 - OTDC100...250E, OTDC100...200U_: Max. 4 test contacts or 2 test contacts + 2 test indication contacts.
OTDC S2.0 - OTDC100...250G, OTDC100...250UG_: Max. 1 test contact + 1 test indication contact.
OTDC M - OTDC315...1000F_, OTDC250...1000UF_: Max. 4 test contacts + 4 test indication contacts.

Suitable for switches	Function	Type	Order number	Pieces/Package
OTDC100...1000_	1NO	OA1G10	1SCA022353R4970	10
	1NC	OA3G01	1SCA022456R7410	10

Module for auxiliary contacts
Screw mounting to the left side of the switch. Max. 8 auxiliary contact blocks with the OEA28 module.

Suitable for switches	Type	Order number	Pieces/Package
OTDC S1.0 - OTDC100...250E, OTDC100...200U_	OEA28	1SCA022714R8810	1

Performance data according to IEC 60947-5-1
For OA1G, OA3G

U _e /[VAC]	AC15		DC12		DC13	
	I _e /[A]	U _e /[VDC]	I _e /[A]	P/[W]	I _e /[A]	P/[W]
230	6	24	10	240	2	50
400	4	72	4	290	0.8	60
415	4	125	2	250	0.55	70
690	2	250	0.55	140	0.27	70
-	-	440	0.1	44	-	-

Ordering information for accessories IEC and UL

Interlocks



— OSZT1L

Mechanical/electrical interlock kit

OTDC switch-disconnectors can be interlocked in the ON and OFF-position using padlocks or a mechanical/electrical interlock kit mounted on the mechanism. The diameter of the lock bail can be max 8 mm. Kit includes the mounting hardware. Coil for the electrical interlock needs to be ordered separately.

Suitable for switches		Type	Order number
OTDC S1.0	OTDC100...250E_, OTDC100...200U_	OSZT1L	1SCA106538R1001
OTDC M	OTDC250...1000_F ¹	OTDCZTML	1SCA162042R1001

¹ Limitations to use of auxiliary contacts , Max. 2 test contacts + 2 test indication contacts.



— OTDCZTML

Coils for electrical interlocks

The switch can be interlocked electrically in the OFF- and ON-positions by installing a coil inside the housing of the interlock kit. The electrical interlock works using the "closed circuit principle", meaning that when the control voltage is not connected to the coil.

Suitable for switches	Type	Order number	Weight/unit kg
AC coils			
110 V AC, 50 Hz	PDAL2/110AC50Hz	1SCA106543R1001	0.15
110 V AC, 60 Hz	PDAL2/110AC60Hz	1SCA107100R1001	0.15
120 V AC, 60 Hz	PDAL2/120AC60Hz	1SCA111353R1001	0.15
208 V AC, 60 Hz	PDAL2/208AC60Hz	1SCA107101R1001	0.15
230 V AC, 50 Hz	PDAL2/230AC50Hz	1SCA107102R1001	0.15
240 V AC, 60 Hz	PDAL2/240AC60Hz	1SCA111356R1001	0.15
DC coils			
24 V DC	PDAL2/24DC	1SCA106542R1001	0.15
48 V DC	PDAL2/48DC	1SCA107103R1001	0.15
110 V DC	PDAL2/110DC	1SCA107105R1001	0.15
125 V DC	PDAL2/125DC	1SCA111338R1001	0.15
220 V DC	PDAL2/220DC	1SCA112503R1001	0.15
Technical data for the coil			
Operating voltage	$U = 0.8...1.1 \times U_n$		
Operating ambient temperature	-40 °C...+65 °C		
Power consumption	with AC 6.5 W		
	with DC 9 VA		



— PDAL2

HPC™, new generation high-pressure contact switch

Top- or bottom feed

800-4000 Amperes - 600 VAC max.

Product Introduction

ABB's type HPC™ switches are UL listed in accordance with Standard 977, Fused Power Circuit Devices (UL File No. E-51827). The charge-after-close mechanism provides stored energy, quick-make/quick-break operation. Multiple spring-loaded high-pressure current-carrying contact arms and an arcing contact arm provide excellent current-carrying capability without sacrificing high interrupting fault performance. These switches are 100 percent rated and can interrupt, on a make and break basis, a minimum of 12 times their nameplate rating without fuse assistance at 600Vac. Complete HPC™ switch and Class L fuse coordination is therefore achieved for all levels of fault current up to 200,000 rms amperes symmetrical at 600Vac maximum. Type HPC™ switches used as service disconnects comply with the National Electrical Code Article 110.10 for adequate short-circuit current and ground fault protection.

Greater Convenience and Operational Safety

The controls and status indicators you need most are readily accessible. The flush-mounted handle, ON/OFF buttons, test receptacle, bell alarm reset buttons — with or without lockout — are easily reached and all are double-insulated from live components. And, for added security, a standard padlock device lets you prevent accidental or unauthorized closing of the switch.

HPC™ switches, new generation are versatile and designed for a wide variety of applications including temperature insensitive control units, push-to-open and close control, charge-after-close operation, 3 cycle closing, UL listed (file E-51827) field installable accessories suitable for 50/60 Hz. All accessories and control wiring are prewired to dedicated, secondary terminal points on each switch.

Features

- High Durability – Safety of Operation
High-dielectric strength, glass reinforced insulated case.
- High Interrupting Capability
Arc chute of unique construction suppresses arcs and cools gases rapidly, providing quick arc interruption and extended switch life.
- High Transient Voltage Withstandability
Interphase partitions mesh with switch midcover to completely isolate each pole.
- Extended Switch Life
Preloaded constant pressure pivot eliminates braid whip and fraying on high short circuit currents and repeated operations.
- Positive “ON-OFF” Indication
Green (OFF), Red (ON), provides visual indication regarding the position of the switch contacts.
- Easy Operation – Quick Make
Flush-mounted handle, operated 6 times to charge; push button on remote close to close the switch
- Emergency Open – Quick Break
Finger-tip “OFF” button rapidly opens the switch contacts.
- Fuse Mounting Bolts for Ease of Mounting Fuses
- Padlocking Provisions Standard



1600A HPC™ Switch
(Type SHP, Top-Feed)



1600A HPC™ Switch
(Type SHP, Bottom-Feed)

Product Forms

- Top Feed – Line terminals at top of switch.
- Bottom Feed – Line terminals at bottom of switch; fuses are de-energized when switch is in OFF positions. Same size as top-feed.

Quick, Error-Free Installation of Universal Accessories

Drop-in bell alarm, bell alarm with manual reset lockout, shunt trip, shunt trip with lockout, and undervoltage release install in seconds. No special tools. No switch disassembly. Just slide them into place. The modules are universal across all frame sizes and each is mechanically keyed to its compartment so you make the right connection, every time. These accessories are field installable and upgradable.

ABB's innovative, modular, drop-in accessories provide the ultimate customer solution for field customization:

UL Listed

- Accessory combination (one each) shunt trip, shunt trip with lockout, undervoltage release, bell alarm (alarm only), bell alarm with lockout.
- Rated 12-250 Vdc through 12-240 Vac, continuous duty.

Complete installation in seconds without special tools, switch disassembly or adjustment

- The user can select how protective control unit functions, the shunt trip (with or without lockout), and UVR accessories interface with the bell alarm and bell alarm with lockout accessories: An overcurrent, shunt trip, or UVR trip can be set to actuate the bell alarm or bell alarm with lockout. Any combination of output actions based on inputs can be selected.
- Shunt trip and undervoltage trip targets are clearly displayed by the control unit LCD.

Pre-wired wire harness makes field installation a snap for:

- Motor operator with remote charge indicator
- Form C auxiliary switches, up to 12-stage maximum
- Remote close solenoid

Additional field-installable accessories including:

- Key interlock provision (4 locks maximum)
- Limited access ON/OFF cover
- Mechanical operations counter
- Door interlock

HPC™, new generation high-pressure contact switch

HPC™ switch, new generation, nomenclature system

HPC™ Switch, New Generation, Nomenclature

Char 1-3	Char 4	Char 5	Char 6	Char 7	Char 8	Char 9	Char 10	Char 11	Char 12	Char 13	Char 14	Char 15
SHP	R	T	3	X	3	N	L	0	0	0	8	1
Fusible Switch SHP = HPC New Generation												Auxiliary Switch, Trimplate 1 = 4-240V, None
Frame Size R = Small Frame												Closing Solenoid, Door Interlock, Counter 8 = None, Yes, None
Feed T = Top												Electric Operator, Push Button Cover, Hidden On 0 = None, None, None
Frame Rating 3 = 800A												Undervoltage Release, Blown Fuse Provision 0 = None
Metering, RELT, Communication, Relays, ZSI X = Metering-Current, RELT-None, Communication-None, Relays-None, ZSI-None												Bell Alarm, Bell Alarm with Lock Out, Kirk Key Protection 0 = None, None, None
TU Protection 3 = Ground Fault												Shunt Trip/Blown Fuse Provision L = 120Vac/125Vdc Lock Out
Switch Rating N = 800A												

Characters 1, 2, 3 Fusible Switch

	Character 1, 2, 3
HPC™, New Generation	SHP

Characters 4 Frame Size

	Character 4
Small (800A - 1600A)	R
Large (2000A - 4000A)	C
Long (42" 4000A w/ GF, Retrofill only)	L

Character 5 Feed

	Character 5
Top	T
Bottom	B

Character 6 Frame Rating

	Character 6
800A	3
1600A	5
2000A	6
2500A	7
3000A	8
4000A	9

Character 7 Metering, RELT, Communication, Relays, ZSI

Metering	RELT	Comm	Relays	ZSI	Character 7
Current	None	None	None	None	X
Current	RELT	None	None	None	A
Current	RELT	Modbus	None	None	B
Current	None	Modbus	None	None	C
Adv & WFC	RELT	Modbus	None	None	E
Adv & WFC	None	Modbus	None	None	F
Adv & WFC	RELT	Modbus	Yes	None	H
Adv & WFC	None	Modbus	Yes	None	J
Current	None	None	None	G	K
Current	RELT	None	None	G	L
Current	RELT	Modbus	Yes	G	M
Current	None	Modbus	Yes	G	N
Adv & WFC	RELT	Modbus	None	G	Q
Adv & WFC	None	Modbus	None	G	R
Adv & WFC	RELT	Modbus	Yes	G	W
Adv & WFC	None	Modbus	Yes	G	Y
Current	None	None	None	G&I	Z
Current	RELT	None	None	G&I	1
Current	RELT	Modbus	None	G&I	2
Current	None	Modbus	None	G	3
Adv & WFC	RELT	Modbus	None	G&I	5
Adv & WFC	None	Modbus	None	G	6
Adv & WFC	RELT	Modbus	Yes	G&I	8
Adv & WFC	None	Modbus	Yes	G	9

HPC™, new generation high-pressure contact switch

HPC™ switch, new generation, nomenclature system

Character 8 TU Protection

	Character 8
Fuse Only	X
I (Switchable)	1
IG (I Switchable)	8
IGA (I Switchable) ¹	9
IGDA (All Switchable) ^{1,2}	A
G	3
GA	4
GDA (All Switchable) ^{1,2}	5

¹GF Alarm is not available when RELT is selected.

²G switchable by password only.

Character 9 Switch Rating

	Character 9
800A	N
1200A	R
1600A	U
2000A	W
2500A	1
3000A	2
4000A	5

Character 10 Shunt Trip/Blown Fuse Provision

Voltage	with Lockout	without Lockout	Blown Fuse Provision	Character 10
None	•		None	0
12 Vdc	•		None	H
24 Vac/24 Vdc	•		None	J
48 Vac/48 Vdc	•		None	K
120 Vac/125 Vdc	•		None	L
208 Vac	•		None	M
240 Vac/250 Vdc	•		None	N
480 Vac	•		None	P
600 Vac	•		None	R
120 Vac	•		•	V
208 Vac	•		•	W
240 Vac	•		•	Y
12 Vdc		•	None	1
24 Vac/24 Vdc		•	None	2
48 Vac/48 Vdc		•	None	3
120 Vac/125 Vdc		•	None	4
208 Vac		•	None	5
240 Vac/250 Vdc		•	None	6
480 Vac		•	None	7
600 Vac		•	None	8
120 Vac		•	•	S
208 Vac		•	•	T
240 Vac		•	•	U

Character 11 Bell Alarm, Bell Alarm with Lock Out, Kirk Key Protection

Bell Alarm	Bell Alarm with Lock Out	Kirk Key Protection	Character 11
None	None	None	0
None	240	None	1
None	600	None	2
240	None	None	4
240	240	None	5
240	600	None	6
600	None	None	8
600	240	None	9
600	600	None	A
None	None	4	G

Character 11 Bell Alarm, Bell Alarm with Lock Out, Kirk Key Protection (Continued)

Bell Alarm	Bell Alarm with Lock Out	Kirk Key Protection	Character 11
None	240	4	H
None	600	4	J
240	None	4	L
240	240	4	M
240	600	4	N
600	None	4	R
600	240	4	S
600	600	4	T

Character 12 Undervoltage Release, Blown Fuse Provision

Undervoltage Release	Blown Fuse Provision	Character 12
None	None	0
24 Vac	None	1
48 Vac	None	2
120 Vac	None	3
208 Vac	None	4
240 Vac	None	5
480 Vac	None	6
600 Vac	None	7
12 Vdc	None	8
24 Vdc	None	9
48 Vdc	None	A
125 Vdc	None	B
250 Vdc	None	C
120 Vac	•	W
208 Vac	•	X
240 Vac	•	Y

Character 13 Electric Operator, Push Button Cover, Hidden On

Electric Operator	Push Button Cover	Hidden On	Character 13
None	None	None	0
120 Vac	None	None	1
240 Vac	None	None	2
24 Vdc	None	None	3
48 Vdc	None	None	4
72 Vdc	None	None	5
125 Vdc	None	None	6
None	Yes	None	8
120 Vac	Yes	None	9
240 Vac	Yes	None	A
24 Vdc	Yes	None	B
48 Vdc	Yes	None	C
72 Vdc	Yes	None	D
125 Vdc	Yes	None	E
None	None	Yes	G
120 Vac	None	Yes	H
240 Vac	None	Yes	J
24 Vdc	None	Yes	K
48 Vdc	None	Yes	L
72 Vdc	None	Yes	M
125 Vdc	None	Yes	N
None	Yes	Yes	R
120 Vac	Yes	Yes	S
240 Vac	Yes	Yes	T
24 Vdc	Yes	Yes	U
48 Vdc	Yes	Yes	V
72 Vdc	Yes	Yes	W
125 Vdc	Yes	Yes	X

HPC™, new generation high-pressure contact switch

HPC™ switch, new generation, nomenclature system

Character 14 Closing Solenoid, Door Interlock, Counter

Closing Solenoid	Door Interlock	Counter	Character 14
None	Yes	None	8
120 Vac	Yes	None	9
240 Vac	Yes	None	A
24 Vdc	Yes	None	B
48 Vdc	Yes	None	C
72 Vdc	Yes	None	D
125 Vdc	Yes	None	E
None	Yes	Yes	R
120 Vac	Yes	Yes	S
240 Vac	Yes	Yes	T
24 Vdc	Yes	Yes	U
48 Vdc	Yes	Yes	V
72 Vdc	Yes	Yes	W
125 Vdc	Yes	Yes	X

Character 15 Auxiliary Switch, Trimplate

Auxiliary Switch	Trimplate	Character 15
None	None	0
4-240V	None	1
8-240V	None	2
12-240V	None	3
4-600V	None	4
8-600V	None	5
None	Yes	8
4-240V	Yes	9
8-240V	Yes	A
12-240V	Yes	B
4-600V	Yes	C
8-600V	Yes	D

HPC™ Switch, New Generation, Frame Product Numbers

THP	R	2	3	6	08	T
Fusible Switch THP = HPC™ Switch						Feed T = Top B = Bottom
Frame Size R = Small Frame (800A-1600A) C = Large Frame (2000A-4000A) L = Long Frame (42" 4000A w/GF, Retrofill only)					Switch Rating 08 = 800A 12 = 1200A 16 = 1600A 20 = 2000A 25 = 2500A 25 = 2500A 40 = 4000A	
Construction 2 = New Generation						
Poles 3 = 3 Pole						
				Voltage 6 = 600V		

HPC™, new generation high-pressure contact switch

Product number nomenclature system

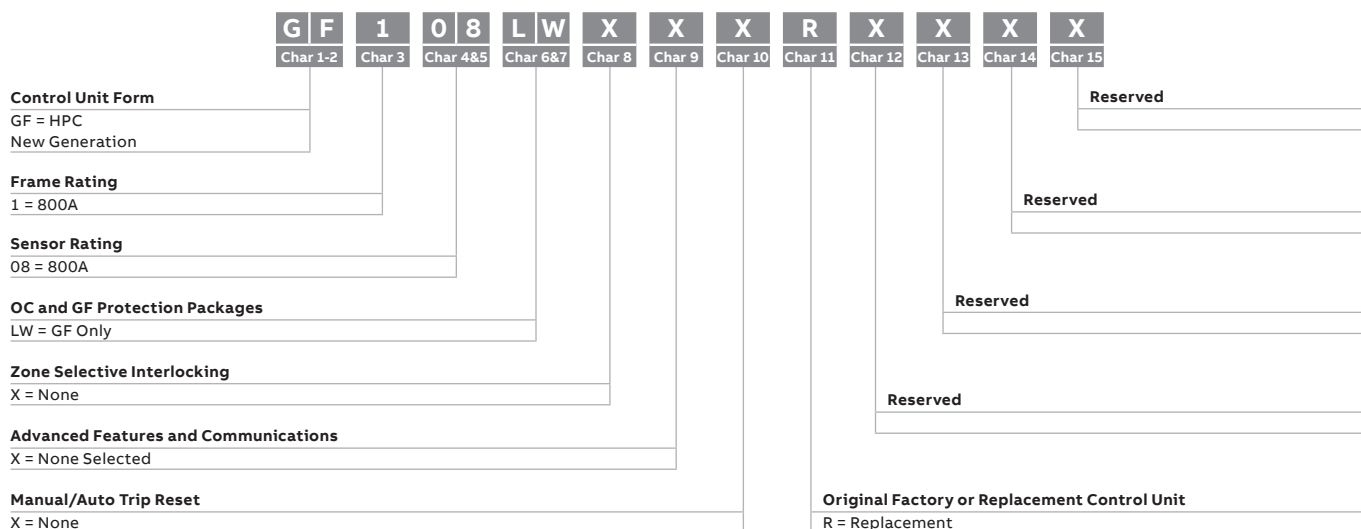
Accessory Product Numbers

	SP	AS	240	AB4	R
HPC™ Switch					Extender
					R = Field installable kit
					Blank = Factory installed
Device Type					Auxiliary Switch Extender
AS = Auxiliary switch ¹					AB4 = Auxiliary switch, type AB with 4 elements
BAA = Bell alarm, alarm only ¹					AB8 = Auxiliary switch, type AB with 8 elements
BAL = Bell alarm with lockout ¹					AB12 = Auxiliary switch, type AB with 12 elements
COUNTER = Mechanical counter ¹					
DIL = Defeatable door interlock					
E = Electric operator ¹					
K4 = Kirk key lock (4 maximum) ¹					
PBCOVER = Pushbutton cover ¹					
RCS = Remote close solenoid ¹					
ST = Shunt trip					
STL = Shunt trip with lockout ¹					
UV = Undervoltage release					
					Voltage, unless otherwise stated
					012 = 12 Vdc
					024 = 24 Vdc
					048 = 48 Vdc
					120/125 = 120 Vac or 125 Vdc
					240/250 = 240 Vac and 250 Vdc
					250 = 250 Vdc
					480 = 480 Vac
					600 = 600 Vac
					08 = 800 A 25 = 2500 A
					16 = 1600 A 30 = 3000 A
					20 = 2000 A 40 = 4000 A

¹Device Product Number requires an extender "R" for field installable kit version only.
NOTE: This information is provided only for use interpreting product numbers. It cannot be used to build product numbers.

HPCTM, new generation high-pressure contact switch EntelliguardTM control unit nomenclature

EntelliGuardTM Control Unit Nomenclature



Character 1 & 2 EntelliGuardTM Control Unit Form

	Character 1 & 2
HPCTM, New Generation	GF

Character 3 Frame Ratings

	Character 3
800A	1
1600A	2
2000A	3
2500A	4
3000A	5
4000A	7

Note: Use 1600A CT w/ 1200A rating plug for 1200A HPCTM frame.

Character 4 & 5 Sensor Rating (Amperes)

	Character 4 & 5
800A	08
1600A	16
2000A	20
2500A	25
3000A	30
4000A	40

Character 6 & 7 OC and GF Protection Packages

	Character 6 & 7
Fuse Only	LZ
I (Switchable)	S1
IG (I Switchable)	S2
IGA (I Switchable)	S3
IGDA (All Switchable) ¹	S4
GDA (All Switchable) ¹	S5
G	LW
GA	LY

¹G switchable by password only

Character 8 Zone Selective Interlocking

	Character 8
None	X
G user selectable	Z
Z+IOC user selectable	T

Character 9 Advanced Features and Communications

	Character 9
None Selected	X
RELT	1
RELT+Modbus	2
Modbus-Adv Meter+WFC+RELT	6
Modbus-Adv Meter+WFC+RELT+relay	8
Modbus Only (No RELT)	A
Adv Metering, Modbus (No RELT)	D
Adv Metering, Modbus, Relays (No RELT)	E

Character 10 Manual/Auto Trip Reset

	Character 10
None	X

Character 11 Original Factory or Replacement Control Unit

	Character 11
Factory	F
Replacement	R

HPC™, new generation high-pressure contact switch

Application information
Outlines and dimensions

Application Information - HPC™ Switches, New Generation

Ampere Rating	Feed	Outline Drawing
800A	Top	10112083P1
800A	Bottom	10112083P2
1200/1600A	Top	10112083P3
1200/1600A	Bottom	10112083P4
2000A	Top	10112083P5
2000A	Bottom	10112083P6
2500/3000A	Top	10112083P7
2500/3000A	Bottom	10112083P8
4000A	Top	10112083P11
4000A	Bottom	10112083P12

Weights - HPC™ Switches, New Generation

Frame Rating	Operation Type	Weight (lb.)
800A	Manual	81
800A	Electrical	90
1200/1600A	Manual	95
1200/1600A	Electrical	104
2000A	Manual	110
2000A	Electrical	119
2500/3000A	Manual	210
2500/3000A	Electrical	219
4000A	Manual	400
4000A	Electrical	409

Enclosure Dimensions, Volume and Ventilation Requirements

Ampere Rating	Min Volume (Cubic Inches)	A Min Ventilation Top and Bottom ¹ (Square Inches)	B Min Line to Ground (Inches)	C Min Height (Inches)	D Min Width (Inches)	E Mounting Depth (Inches)	F Min to Ground or Insulation (Inches)
800A	6062	23	2	28	25	8.66	3.5
1200A-1600A	6495	63	2	30	25	8.66	3.5
2000A	9380	63	2	40	25	9.38	3
2500A	9380	172	2	40	25	9.38	3
3000A	9380	172	2	40	25	9.38	3
4000A	17347	189	9	52	30	11.12	3

Note: For dimensions of neutral current sensor to be used with integral ground fault switches, see outline drawings: 139C5016SH1 & SH2 (TSVG types) and 10112973P1 (SSVG types).
¹Ventilating openings can be in alternate location but must provide equivalent ventilating areas.

HPC™, new generation high-pressure contact switch

HPC™ switch, new generation

How to Order:

1. Determine your new HPC™ 15-digit part number by using the Configurator (contact your authorized ABB Distributor) and refer to the Buylog™ for complete list of options.
2. Check empower for price and availability (For access to empower, contact your authorized ABB Distributor). Note: Because of multiple possible combinations, only product numbers that have been ordered are in empower. If the product number you are interested in is not in empower, email the request to epis.uscustomerexcellence@abb.com to add it to the system.
3. Once the product number is loaded, the order can be placed via empower.
4. Note: Neutral CTs and T-Studs are ordered separately from the 15-digit product number.

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation

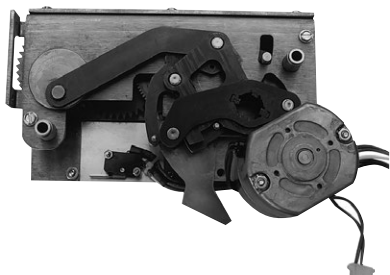
All devices UL listed for factory or field installation except where noted.

Accessories

The complete line of new generation HPC™ switch accessories may be either factory or field installed to meet user needs. The electronic shunt trip, the bell alarm, the bell alarm with mechanical lockout, and the undervoltage release modules are drop-in from the front of the switch, interchangeable across all frames, and require no field internal wiring or switch disassembly. Auxiliary switch modules are available in groups of 4, 8 or 12, NO/NC single-pole, double-throw (SPDT) switches. Their installation simply involves removal of switch cover, installation of the switch module, routing of wiring and installation of the pre-wired terminal block and re-installation of the cover. Auxiliary switches are also interchangeable across all new generation HPC™ switch frames.

Electrical Operator

The electrical operator mounts inside the front cover of the manually operated switch. This accessory can be added to any new generation HPC™ switch in the factory or the field to provide electrical spring charging and charge indication. **For remote closing, the remote close solenoid must be ordered separately.** All switches are prewired to dedicated secondary terminals for easy field installation. When electrical operation is used, either a shunt trip or an undervoltage release must be ordered separately.

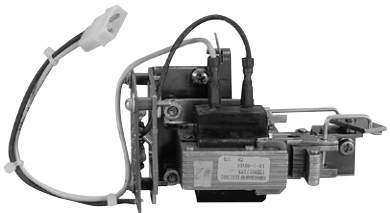


Electrical Operator

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
120	-	SPE120R	SPE120
240	-	SPE240R	SPE240
-	24	SPE024R	SPE024
-	48	SPE048R	SPE048
-	72	SPE072R	SPE072
-	125	SPE125R	SPE125

Remote Close Solenoid

This accessory provides an electrically operated solenoid which, when energized, closes the switch. It is suitable for control interlock schemes in which manual closing capability would not be convenient or desirable. The switch is provided with a manual close button, which can be replaced by the Hidden "ON" Button accessory and/or sealed using the Limited Access Pushbutton Cover accessory. The remote close accessory is continuously rated and has an anti-pump feature, which prevents a motor operated switch from repeatedly closing into a fault. Closing control voltage must be removed and re-applied for each switch closure.



Remote Close Solenoid

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
120	-	SPRCS120R	SPRCS120
240	-	SPRCS240R	SPRCS240
-	24	SPRCS024R	SPRCS024
-	48	SPRCS048R	SPRCS048
-	72	SPRCS072R	SPRCS072
-	125	SPRCS125R	SPRCS125

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation

All devices UL listed for factory or field installation except where noted.



Shunt Trip Module

Shunt Trip

The shunt trip accessory is an electronic module, which provides remote control capability to open the switch. When activated, the shunt trip module sends a signal to the control unit to open the switch. This allows the control unit to record, display, distinguish and communicate that the opening event was initiated by the shunt trip device. The shunt trip is continuously rated and requires no cut-off switch. When energized, the shunt trip supplies +24Vdc power to the control unit to power the display.

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
-	12	SPST012R	SPST012
24	24	SPST024R	SPST024
48	48	SPST048R	SPST048
120	125	SPST120R	SPST120
208	-	SPST208R	SPST208
240	250	SPST240R	SPST240
480	-	SPST480R ¹	SPST480 ¹
600	-	SPST600R ¹	SPST600 ¹

¹ Kit contains externally mounted transformer.

Shunt Trip with Lockout Module

The shunt trip with lockout is identical to the regular shunt trip, but when energized, it will also prevent closure of an "open" switch by mechanically blocking both manual and electrical closing. When energized, the closing springs will not discharge, the movable contacts will not move; the contacts are "kiss free."

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
-	12	SPSTL012R	SPSTL012
24	24	SPSTL024R	SPSTL024
48	48	SPSTL048R	SPSTL048
120	125	SPSTL120R	SPSTL120
208	-	SPSTL208R	SPSTL208
240	250	SPSTL240R	SPSTL240
480	-	SPSTL480R ¹	SPSTL480 ¹
600	-	SPSTL600R ¹	SPSTL600 ¹

¹ Kit contains externally mounted transformer.

Undervoltage Release Module

The undervoltage release is an electronic module used to open the switch when the monitored voltage drops below 35-60% of its rated value. The undervoltage release "resets" when the monitored voltage is re-established allowing the switch to re-close (the sealing voltage of the UVR is 60-85% of its rated voltage).

An undervoltage release trip operation is produced by the GTU control unit in response to a signal from the undervoltage release module. This allows the control unit to record, display, distinguish and communicate that the switch opening event was due to undervoltage release. Operation of the undervoltage release module will prevent switch contact closure, i.e. "kiss-free" operation. When energized, the undervoltage release supplies +24 Vdc power to the control unit to power the display.



Undervoltage Release Module

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
24	-	SPUV024ACR	SPUV024AC
48	-	SPUV048ACR	SPUV048AC
120	-	SPUV120ACR	SPUV120AC
208	-	SPUV208ACR	SPUV208AC
240	-	SPUV240ACR	SPUV240AC
480	-	SPUV480ACR ¹	SPUV480AC ¹
600	-	SPUV600ACR ¹	SPUV600AC ¹
-	12	SPUV012DCR	SPUV012DC
-	24	SPUV024DCR	SPUV024DC
-	48	SPUV048DCR	SPUV048DC
-	125	SPUV125DCR	SPUV125DC
-	250	SPUV250DCR	SPUV250DC

¹ Kit contains externally mounted transformer.

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation

All devices UL listed for factory or field installation except where noted.



Bell Alarm (Alarm Only)

Blown Fuse Protector

The Blown Fuse Protector (factory installed) is an accessory which includes components mounted on and external to the new HPC™ switch. Control wiring is connected from one end of each fuse mounting bus-strap to a 6 pt. terminal block mounted on the side of the new HPC™ switch. A shunt trip Lockout device or UVR trip device is included based on the product numbers below for remote opening of the new HPC™ switch in the event of a blown fuse to avoid single phasing.

The accessory also includes a pin-wheel style Blown Fuse Detector equipped with 3 trigger fuses + 1 spare. Wiring from the pin-wheel device to the new HPC™ switch is the responsibility of the switchboard builder.

Ratings Vac	Factory Installed Product Number	Field Installable Product Number ¹	Trip Accessory Provided
120	BFSPSTL120AC	BFSPSTL120ACR	SPSTL120
208	BFSPSTL208AC	BFSPSTL208ACR	SPSTL208
240	BFSPSTL240AC	BFSPSTL240ACR	SPSTL240
120	BFSPUV120AC	BFSPUV120ACR	SPUV120AC
208	BFSPUV208AC	BFSPUV208ACR	SPUV208AC
240	BFSPUV240AC	BFSPUV240ACR	SPUV240AC
120	BFSPST120AC	BFSPST120ACR	SPST120
208	BFSPST208AC	BFSPST208ACR	SPST208
240	BFSPST240AC	BFSPST240ACR	SPST240

¹For field installable kits only, the Pin wheel style Blown Fuse Detector is not included due to UL accessory listing requirements.

Source the Boltswitch PW-2 Blown Fuse Detector separately and follow that manufacturer's instructions for mounting and use.

Bell Alarm (Alarm Only)

The bell alarm module is used to signal switch "tripped" status to other accessories (e.g., external alarm devices, indicating lights, relays, or logic circuits) for remote indication and interlocking functions. The bell alarm response is configurable by means of rearmounted DIP switches on the control unit. The bell alarm can be made to operate in response to an overcurrent (including ground fault) or protective relay trip and/or a shunt trip operation, and/or operation of the undervoltage release module. It is not actuated as a result of normal switch "ON/OFF" operation.

This module provides a visual, mechanical pop-out target, which protrudes through the face of the switch door when it operates. The bell alarm may be reset manually by depressing the mechanical target, or automatically by closing the switch.

The bell alarm is provided with one SPDT switch with control power duty contacts as shown in the auxiliary switch accessories.

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
240	125-250	SPBAA240R	SPBAA240
600	125-250	SPBAA600R ²	SPBAA600 ²

²600 Vac module not UL Listed.

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation

All devices UL listed for factory or field installation except where noted.



Bell Alarm with Mechanical Reset Lockout

Bell Alarm With Lockout

The bell alarm with lockout module combines both the bell alarm and a manual lockout function. The bell alarm switch operates identically to the standard bell alarm module, except that the mechanical pop-out target must be manually reset before the switch can be closed.

Operation of the bell alarm with lockout module can be independently set by means of setting the DIP switches at the rear of the control unit. Current rating of the single SPDT switch is identical to the auxiliary switch accessories.

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
240	125-250	SPBAL240R	SPBAL240
600	125-250	SPBAL600R ¹	SPBAL600 ¹

¹600 Vac module not UL Listed.



Auxiliary Switch with
Pre-wired Secondary Terminals

Auxiliary Switch

An auxiliary switch signals the HPC™ switch's primary contact position (i.e., OPEN or CLOSED) to other devices, such as indicating lights, relays or logic circuits. This enables the user to provide remote indication, interlocking or control operations as a function of HPC™ switch primary contact position. The auxiliary switch operation is independent of the method by which the HPC™ switch is opened or closed. The auxiliary switch does not distinguish between a "tripped" or "open" condition. The auxiliary switch contacts follow the main HPC™ switch contacts on opening and precede them on closing.

Auxiliary switch modules are available with 4, 8 or 12 NO/NC (SPDT) switches for control power duty ac/dc ratings. When ordered for field installation, an auxiliary switch module comes pre-wired to its own terminal board, which mounts with one screw to the left of the HPC™ switch. All switch ratings are 6A at 120V-600 Vac, 1/2A at 125 Vdc and 1/4A at 250 Vdc.

Ratings Vac	Ratings Vdc	No. of SPDT Switch Elements (Contacts)	Field Installable Product Number	Factory Installed Product Number
240	125-250	4	SPAS240AB4R	SPAS240AB4
240	125-250	8	SPAS240AB8R	SPAS240AB8
240	125-250	12	SPAS240AB12R	SPAS240AB12
600	125-250	4	SPAS600AB4R ¹	SPAS600AB4 ¹
600	125-250	8	SPAS600AB8R ¹	SPAS600AB8 ¹

²600 Vac module not UL Listed.

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation

All devices UL listed for factory or field installation except where noted.



Mechanical Operations Counter

Mechanical Operations Counter

The mechanical operations counter is mounted behind the front cover of the switch. It is viewable through a rectangular knockout window opening in the switch cover. It is a five-digit, non-resettable counter, which is actuated each time the switch is opened by any means.

Field Installed Product Number	Factory Installed Product Number
SPCOUNERR	SPCOUNTER



Limited access pushbutton cover

Limited Access Pushbutton Cover

This accessory limits access to "ON/OFF" control of a switch to authorized personnel. The pushbutton cover accessory consists of transparent hinged covers that can be individually sealed to the limited access assembly. Both the "ON" and "OFF" buttons can be pilot drilled to allow use of a 1/8" rod to operate either one or both pushbuttons.

Field Installed Product Number	Factory Installed Product Number
SPPBCOVERR	SPPBCOVER



Activating the switch closing mechanism through the hole in the Hidden "ON" Button

Hidden "ON" Button

The hidden "ON" button is assembled to the mechanism behind an unlabeled, false pushbutton. Manual closing of the switch can only be performed by means of a small diameter rod. This accessory is used to limit access to the manual "ON" control to authorized personnel.

Field Installed Product Number	Factory Installed Product Number
SPPBNONR	SPPBNON

Maintenance/Repair Parts

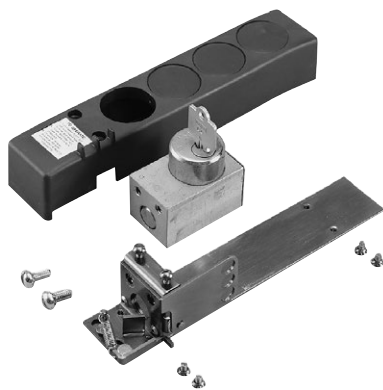
Description	Product Number
Top Cover and Rating Labels	SPBIICOVER ¹
Visible "On" Button Conversion	SPPBRONR

¹Special handling and order entry required to preserve UL Listing of switch. Contact Post Sale Service for additional details of special process.

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation

All devices UL listed for factory or field installation except where noted.



Key Interlock Kit (lock not included)

Key Interlock Provisions

The key interlock provision enables the user to mount a one- to four-cylinder, narrowfaced, Kirk-type FN or Superior customer-supplied lock on the face of the switch. This accessory provides mounting for key interlocks that are furnished by the customer. The key interlock provision works in conjunction with the padlock provision. The key interlock extends a lever through the padlock hasp when the key is turned to the key removal or bolt extended position. Additionally, the accessory provides a hasp for mounting three padlocks with 1/4" to 3/8" diameter shanks.

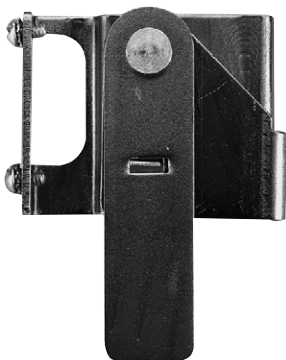
Key Interlock Reference Table

Product Number	Number of Locks	Kirk Key Lock Product Number	Superior Product Number
SPK4	1	KFN00001 ¹	S105827Y
SPK4	2	KFN00002 ¹	S105828Y
SPK4	3	KFN00003 ¹	S105829Y
SPK4	4	KFN00004 ¹	S105827-4Y

¹Final digit may be 0, 1, 2 or 3 depending on number of key removal positions.

Product Numbers, Key Interlock Provisions

Circuit Breaker Envelope Size (Amps)	Number of Key Locks	Field Installed Product Number	Factory Installed Product Number
All	1 to 4	SPK4R	SPK4



Door Interlock

Door Interlock

The door interlock provides interlocking of the switch compartment's hinged door so that the switch must be in the "OFF" position before the door can be opened. The door interlock is defeatable with a small tool to allow authorized access.

Field Installed Product Number	Factory Installed Product Number
SPDILR	SPDIL

Padlock Provisions (Standard)

Padlocking provisions are standard on all new generation HPC™ switches. When the switch is in the open position, and the padlock hasp is raised at least 1/4", the switch cannot be closed mechanically or electrically. The hasp accepts up to three padlocks with 1/4" to 3/8" diameter shanks.

HPC™, new generation high-pressure contact switch

Accessories

UL listed

Adapter Kits
(Accepts either lugs, bus, or Anderson VCEL VersaCrimp)
For Line or Load end of 3-pole switch.

Ampere Rating	Product Number
800A	THPCLUGA08
1200A 1600A	TPLUGA16

Field Installed Lugs Kits 800-1600 Ampere Switches - Direct Mounting
Field installed only. Kits consist of lugs and hardware for direct mounting to switch terminal straps (multiple-hole tang lugs) or lugs for mounting to 800 ampere terminal adapter kit. Order three kits for three-pole line or load end. For 1600-ampere, copper conductors must be used.

Ampere Rating	Lug Per Kit	Max. Cables Per Pole	Wire Range (Cu/Al)	Product Number
800	1	3	(3) 300-750	THPCLUG308
1200-1600	1	6	3/0-800	TPLUG108 ¹

¹For use with adapter kit TPLUGA16 only.

Field Installed Lugs Kits 2000-4000 Ampere Switches - Direct Mounting
Field installed only. To terminate line and load cables, must be used in conjunction with bus-connection adapter (T Studs). Each lug kit includes lugs, straps and hardware for three-phase line or load connections. Each cable lug accommodates 1–3/0 Cu or 250 kcmil Al to 800 kcmil Cu-Al. Accepts Anderson VersaCrimp when lugs are removed from straps.

Ampere Rating	No. of Lugs per Pole Line or Load End	Product Number
2000A	6	TSLUG20
2500A	7	TSLUG25
3000A	9	TSLUG30
4000A	11	TSLUG40

Field Installed T Studs
Field installed only. May be used to adapt line and load terminals of switch to vertical or horizontal bus arrangements. Three required for line or load connections on three-phase bus. Accepts either lugs, bolts, or Anderson VCEL VersaCrimp.

Basic Switch Rating (Amperes)	Product Number
800	THPC08FCA ¹
1200-1600	TP16FCA
2000	TS20FCA
2500	TS25FCA
3000	TS30FCA
4000	TS40FCA ² TS40LFCA ³

¹For vertical bussing only.
²For load terminals and left/right line terminals.
³For center pole, line terminal.

Lug Kits (For use with adapter only)
(Accepts either lugs, bus or Anderson VCEL Versa Crimp)
One per Product Number; standard carton contains:
6 - TPLUG106;
3 - TPLUG108.

Ampere Rating	No. of Lugs per Pole Line or Load End	Wire Range Cu/Al	Product Number
800A	3	(1) #2-600 kcmil or (2) 1/0-250 kcmil	TPLUG106
800A	3 6	(1) 3/0-800 kcmil Cu or (1) 250-800 kcmil Al	TPLUG108

Trimplate	
Factory Installed Product Number	Field Installable Product Number
SPTRIMPLATE	SPTRIMPLATER

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation



TSVG Neutral Current Sensor

Neutral Current Sensors¹

HPC™ Switch Frame (Amperes)	HPC™ Switch Sensor Rating (Amperes)	Neutral Sensor Rating or Tap Settings (Amperes)	Product Number
800	200	200	TSVG302
	400	400/200	TSVG304A
	400	600/300 ²	TSVG306A
800-1600	800	800/400	TSVG308A
	1000	800/400 ²	TSVG808A
1600	1000	1000/500	TSVG810A
	1600	1200/600 ²	TSVG812A
	1600	1600/1000	TSVG816A
2000	2000	2000/1000	TSVG820A
	1000	800/400 ²	TSVG808A
3000	1000	1000/500	TSVG810A
	1000	1200/600 ²	TSVG812A
	1000	1600/1000 ²	TSVG816A
	2000	2000/1200	TSVG820A
	2500	2500/1800	TSVG825A
	3000	3000/2400	TSVG830A
4000	4000	4000/3000	TSVG940A

¹Match neutral current sensor rating (or tap setting) to new HPC™ switch sensor rating.

²For use with multiple source ground fault protection schemes. Rating does not match EntelliGuard™ TU frame sensor.



SSVG Neutral Current Sensors

Neutral Current Sensors¹

HPC™ Switch Frame (Amperes)	HPC™ Switch Sensor Rating (Amperes)	Neutral Sensor Rating or Tap Settings (Amperes)	Product Number of Window Sensor	Inside Diameter (inches)
800	800	800/400	SSVG808W	4.25
1200	12003	2000/1200	SSVG820W	5.63
	16003	1600/1000	SSVG816W	5.63
1600	1600	1600/1000	SSVG816W	5.63
2000	2000	2000/12003	SSVG820W	5.63
2500	2500	2500/1800	SSVG825W	5.63
3000	3000	4000/3000	SSVG940W	6.50
4000	4000	4000/3000	SSVG940W	6.50

¹Match neutral current sensor rating (or tap setting) to new HPC™ Switch sensor rating.

³At time of initial product release, the 1200A new HPC™ Switch was using 1600A installed sensors and a 1200A rating plug. Later models may or may not use 1200A phase sensors. Match Neutral sensor tap to HPC™ sensor rating.

HPC™, new generation high-pressure contact switch

HPC™ switch, new generation

Reference Publications

Auxiliary Switch Module	GEH-6274
Bell Alarm - Alarm Only	GEH-6275
Door Interlock	GEH-6276
Lugs & Adapters for 800-2000 A Frames	GEH-4546
Bell Alarm with Lockout	GEH-6278
Key Interlock Mounting Provision	GEH-6279
Mechanical Counter	GEH-6280
Motor Operator Mechanism	GEH-6281
Push Button Cover	GEH-6282
Remote Close	GEH-6283
Shunt Trip and Shunt Trip with Lockout (except 480 and 600 Vac)	GEH-6284
Shunt Trip and Shunt Trip with Lockout, 480 & 600 Vac	GEH-6519
Undervoltage Release (except 480 and 600 Vac)	GEH-6285
Undervoltage Release, 480 & 600 Vac	GEH-6520
Instructions, HPC™ Heat Sink Installation	DEH-41694
Instructions, HPC™ Blown Fuse Protector	DEH-41695
EntelliGuard™ TU Trip Unit	DEH-4567
HPC™ Switches, New Generation, User's Guide	DEH-41689
Time Current Curves HPC™ Switches, New Generation, Ground Fault	DES-121
Time Current Curves HPC™ Switches, New Generation, Adjustable Selective Instantaneous Trip, Reduced Energy Let-Through (RELT)	DES-122
HPC™ Switches, New Generation, Instantaneous Protection Guide	DEE-715