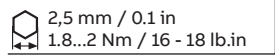


—
INSTALLATION INSTRUCTION

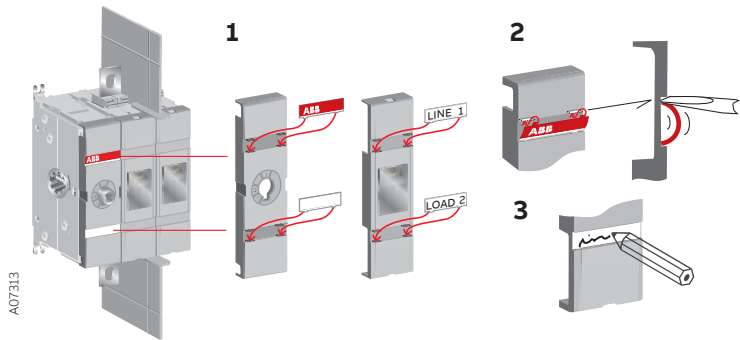
DC Switch-Disconnectors

OTDC100-250





Labels

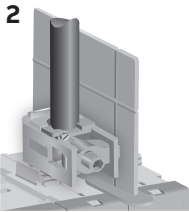
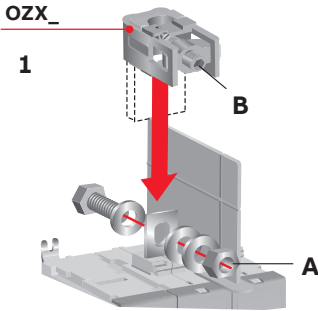


Terminal clamps OZX_

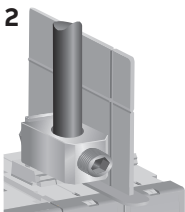
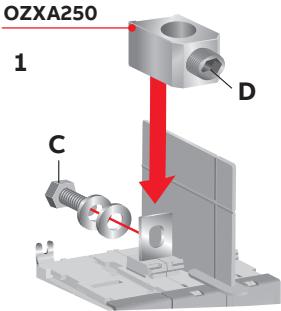
Note: Always use counter torque when tightening terminals!

OTDC100...250E_		
	A	B
OZXB1L	15...22 Nm (M8)	15 Nm
OZXB2	—	30 Nm
OZXB2L	15...22 Nm (M8)	30 Nm

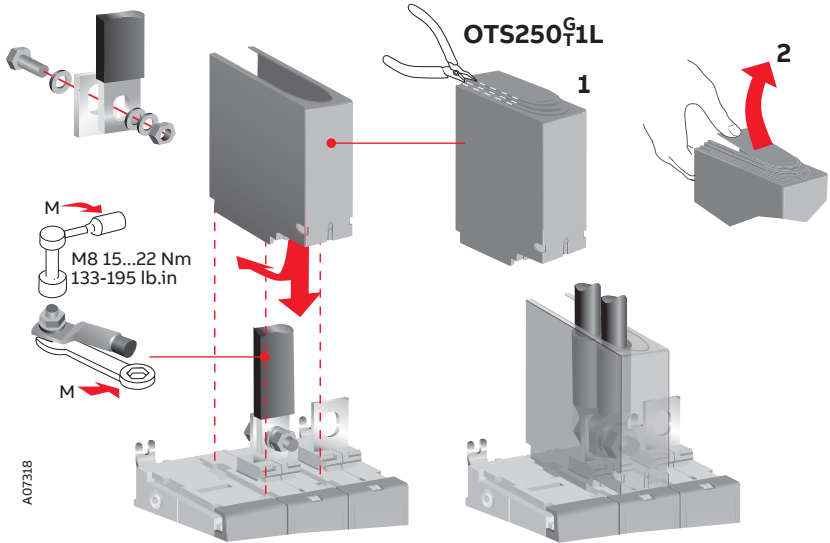
OTDC100...245U_		
	C	D
OZXA200	72 lb.in	200 lb.in
OZXA250	175 lb.in	275 lb.in



A07311

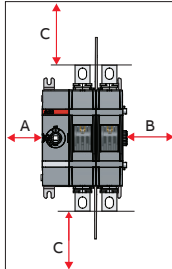


Busbars and cable lugs OTS_

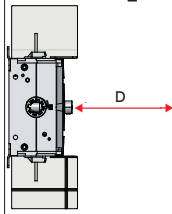


Clearances per UL98

Minimum distances
to enclosure walls



OTDC100U_
OTDC180U_
OTDC200U_
OTDC245U_



A07316

Minimum enclosure size or equivalent volume

For types OTDC100-245U02, 20, 11:

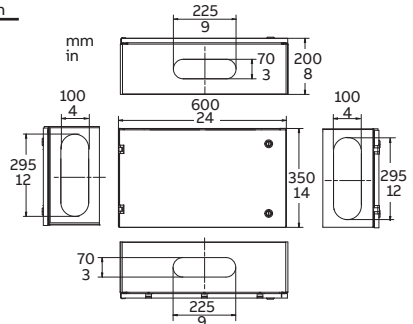
Height	Width	Depth
300 mm	x 350 mm	x 200 mm
12 in	x 14 in	x 8 in

For types OTDC100-245U22, 33, US_, UV_, USV_ *:

Height	Width	Depth
350 mm	x 600 mm	x 200 mm
14 in	x 24 in	x 8 in

A	B	D
0	13 mm 0.5 in	13 mm 0.5 in

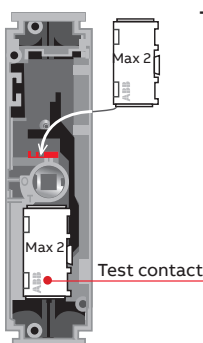
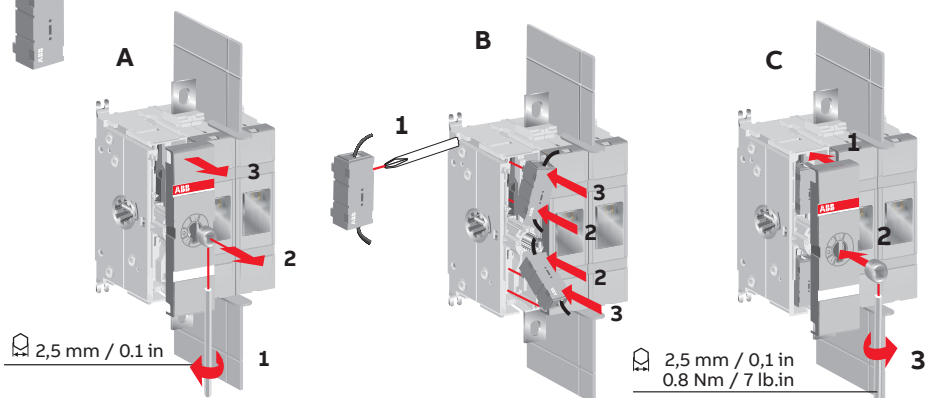
*) The Enclosure for
type OTDC245US02
and OTDC245US11
has to be naturally
ventilated according
the following picture:



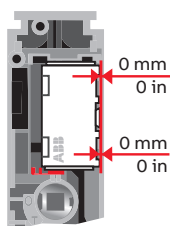
C Cable size	
AWG	
4-3	100 mm 4 in
2	100 mm 4 in
1	100 mm 4 in
1/0	125 mm 5 in
2/0	150 mm 6 in
3/0-4/0	175 mm 7 in
MCM	
250	200 mm 8 in
300	250 mm 10 in
400	250 mm 10 in

Auxiliary contacts OA_

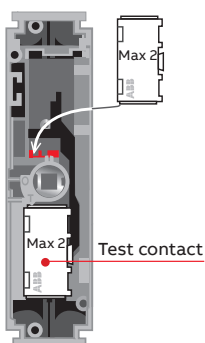
OA_



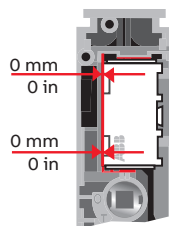
Test indication contact



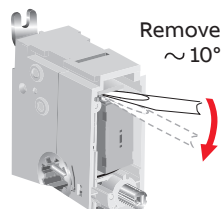
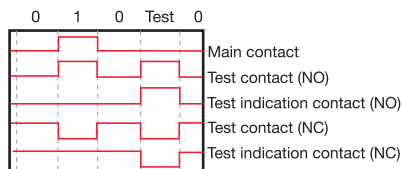
OR



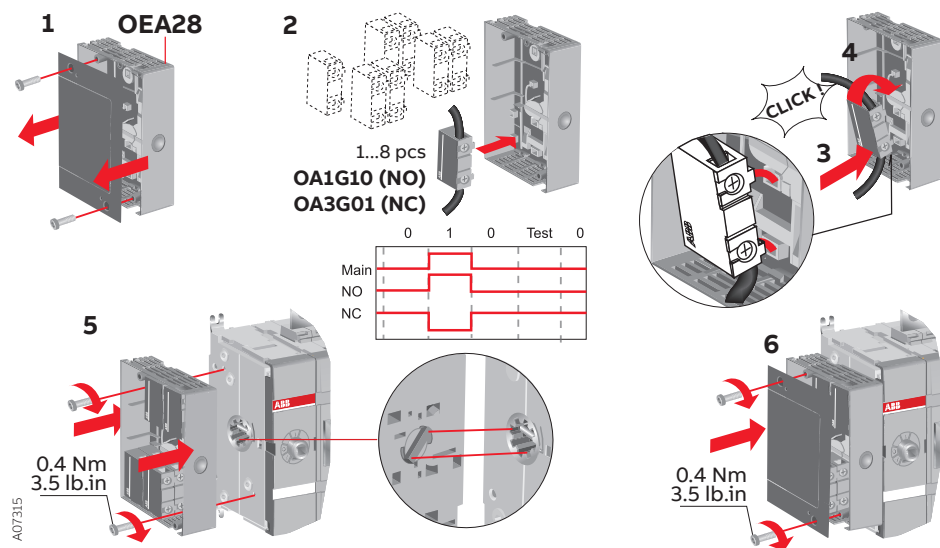
Test contact



NO: OA1G10
NC: OA3G01

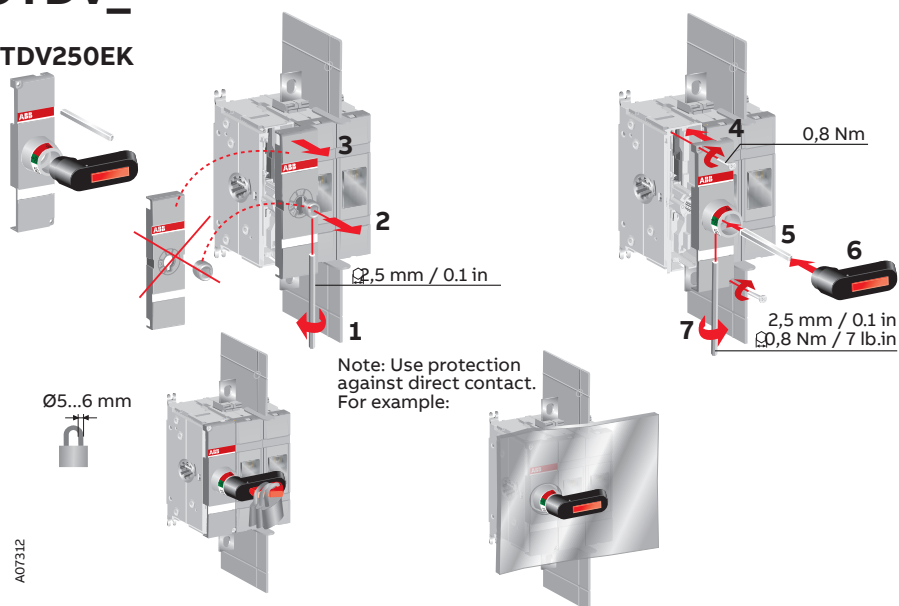


Module for aux contacts OEA_



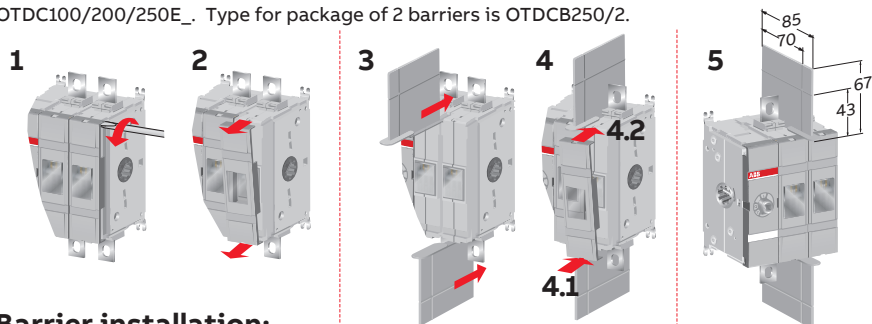
OTDV_

OTDV250EK



Barriers OTDCB_

Barriers must be used between poles on types OTDC100/160/180/200/245U_ and OTDC100/200/250E_. Type for package of 2 barriers is OTDCB250/2.



Barrier installation:

OTDC_U02
OTDC_E02

Circuits: 2a, 2b

OTDC_U20
OTDC_E20

Circuits: 2a, 2b

OTDC_U02S
OTDC_E02S

Circuits: 2a, 2b

OTDC_U20S
OTDC_E20S

Circuits: 2a, 2b

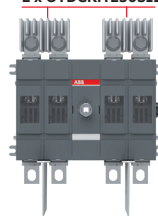
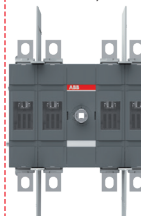
OTDC_U22
OTDC_E22

Circuits: 4a, 4c

OTDC_US22

Circuits: 3

2 x OTDCKIT250S11



OTDC_US02

Circuit: 1a

OTDC_US20

Circuit: 1a

OTDC_US02S

Circuit: 1a

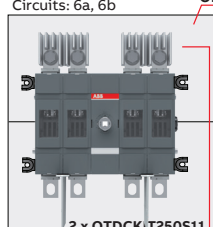
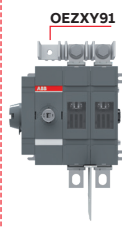
OTDC_US20S

Circuit: 1a

OTDC_EV22
OTDC_UV22

Circuits: 6a, 6b

OEZXY130



OTDC_E33
OTDC_U33

Circuits: 7a, 7e

OTDC_US33

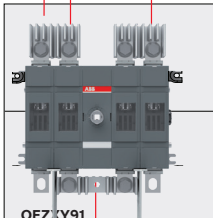
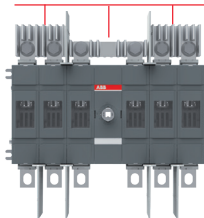
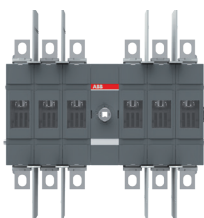
Circuit: 7i

2 x OTDCKIT250S11 + 1 x OEZXY91

OTDC_USV22

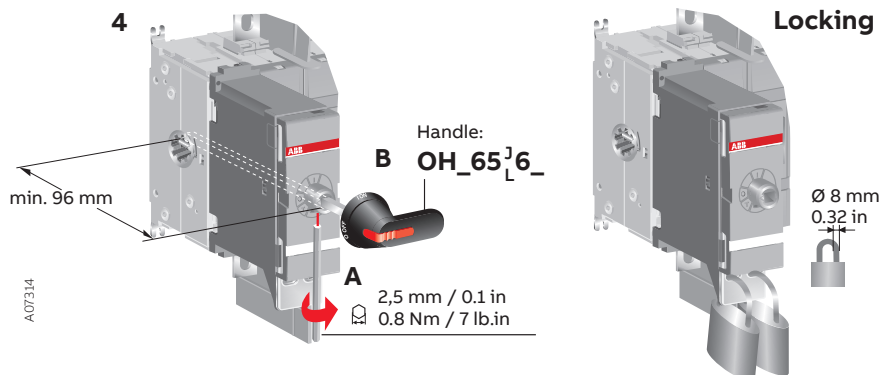
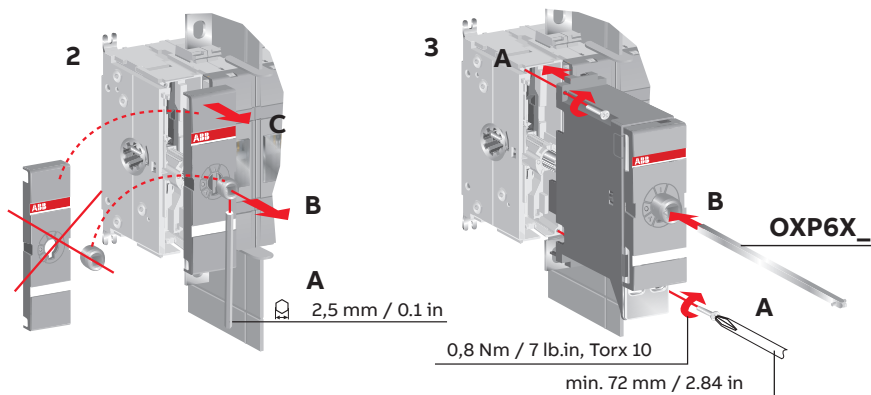
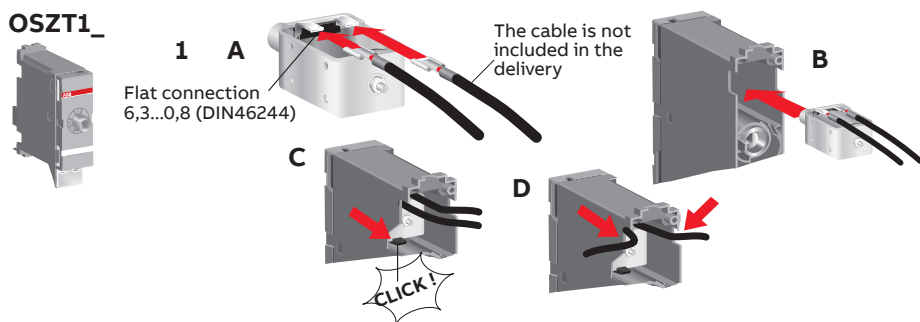
Circuit: 6m

OEZXY130 2 x OTDCKIT250S11



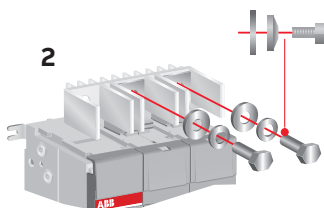
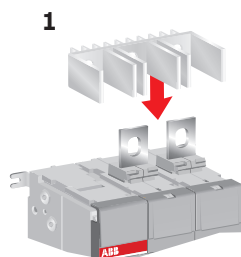
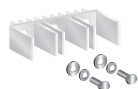
OSZT_

OSZT1_

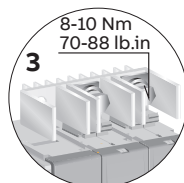
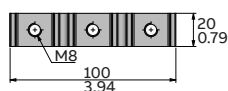
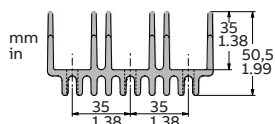


OTDCB_

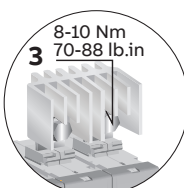
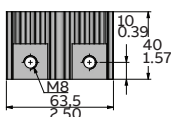
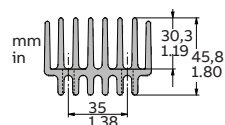
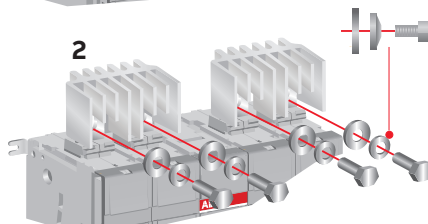
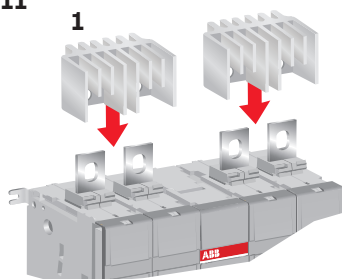
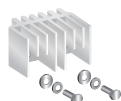
OEZXY91



Protection plate OEZXY130 must be used on types OTDC_USV22, OTDC_EV22 and OTDC_UV22 according to the circuit drawings below. Protection plates are included as standard if use required.



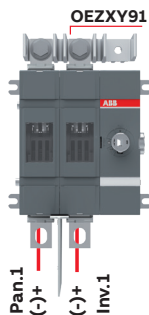
OTDCKIT250S11



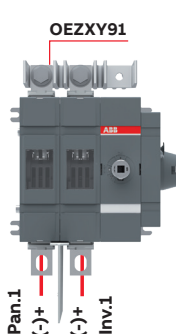
Circuits 2a, 2b
1000 VDC
OTDC_U20
OTDC_E20



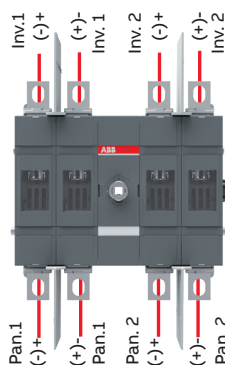
Circuit 1a
1000 VDC
OTDC_US20



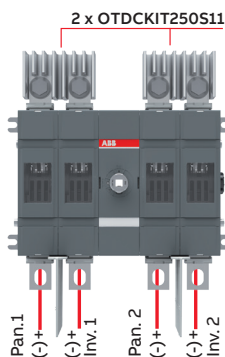
Circuit 1a
1000 VDC
OTDC_US20S



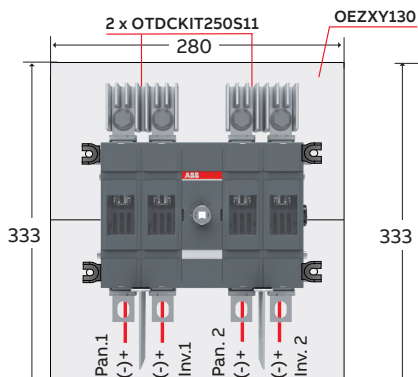
Circuits 4a, 4c
1000 VDC
OTDC_U22, OTDC_E22



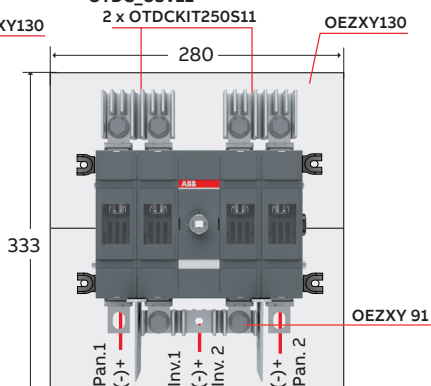
Circuit 3
1000 VDC
OTDC_US22



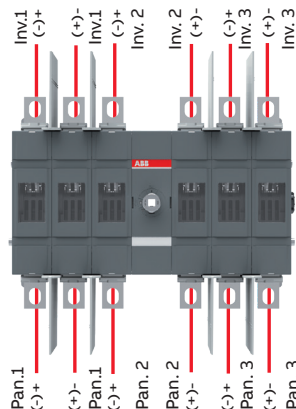
Circuits 6a, 6b
1500 VDC
OTDC_EV22, OTDC_UV22



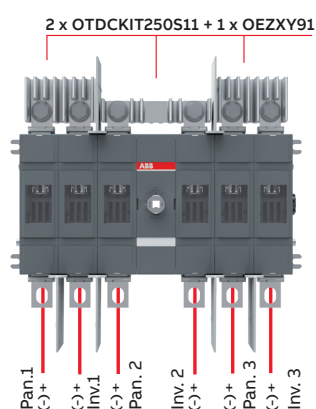
Circuit 6m
1500 VDC
OTDC_USV22



Circuits 7a, 7e
1000 VDC
OTDC_E33, OTDC_U33



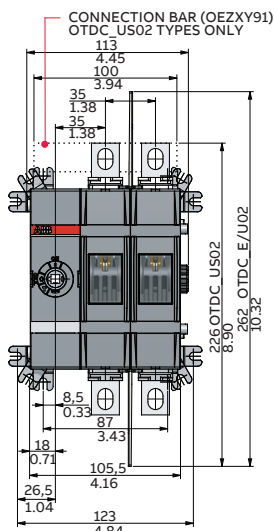
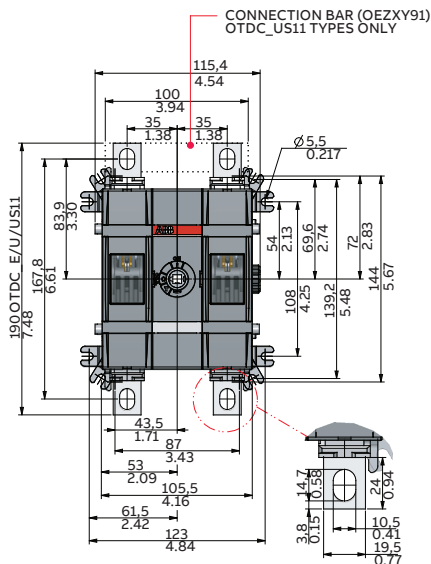
Circuit 7i
1000 VDC
OTDC_US33



Dimension drawings

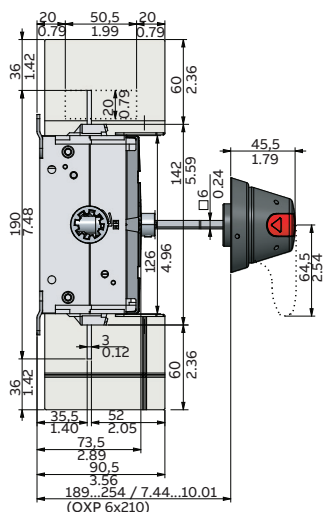
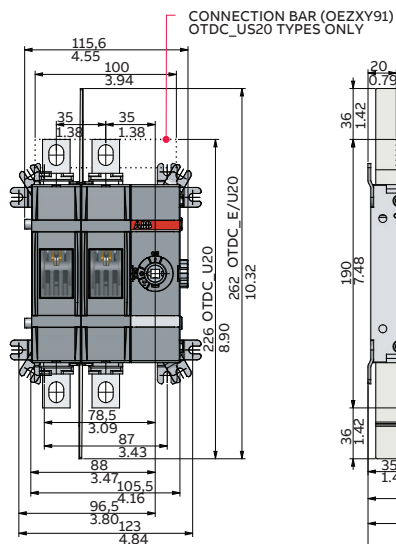
OTDC100...250E11, OTDC100...245U11, OTDC100...245US11

mm
in

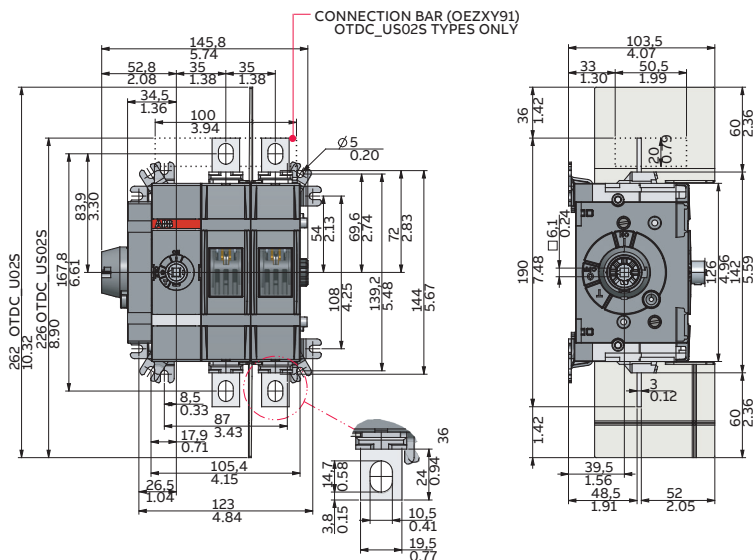


OTDC100...250E20, OTDC100...245U20, OTDC100...245US20

mm
in

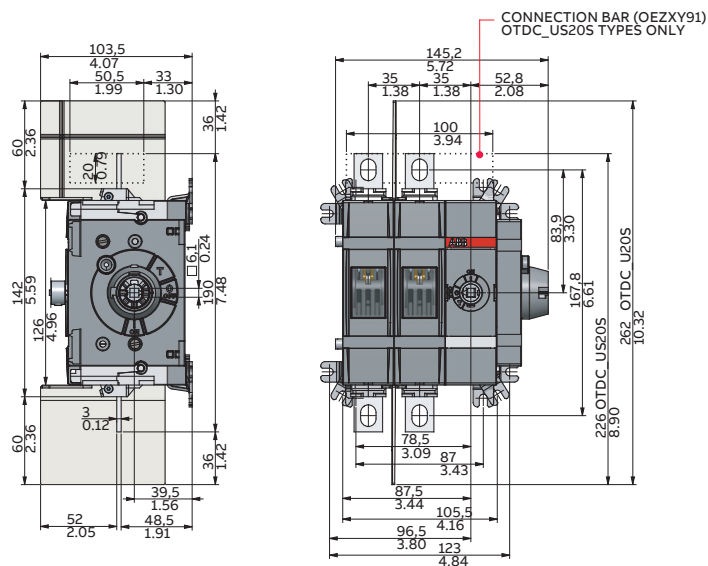


OTDC100...245U02S, OTDC100...245US02S

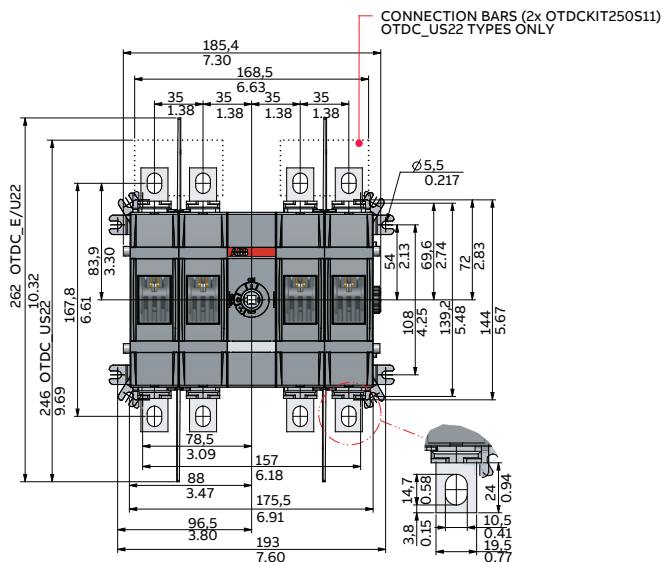
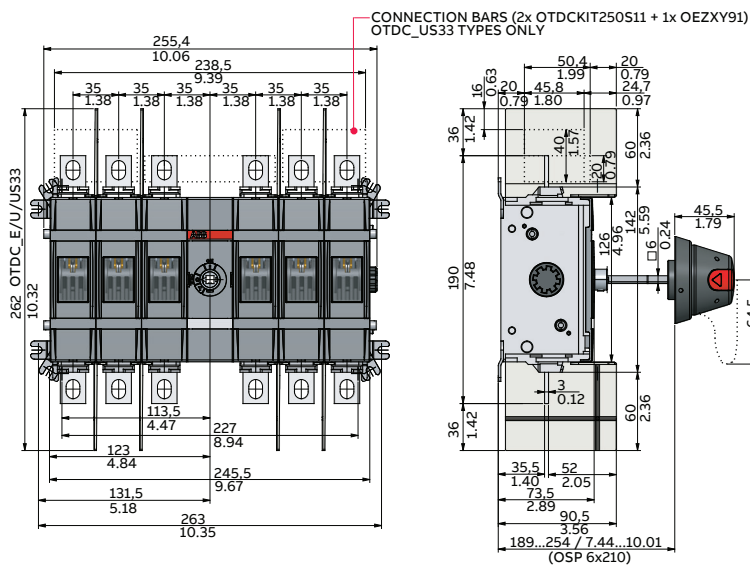
mm
in

M00499A / OTDC100-245U/US02/20S

OTDC100...245U20S, OTDC100...245US20S

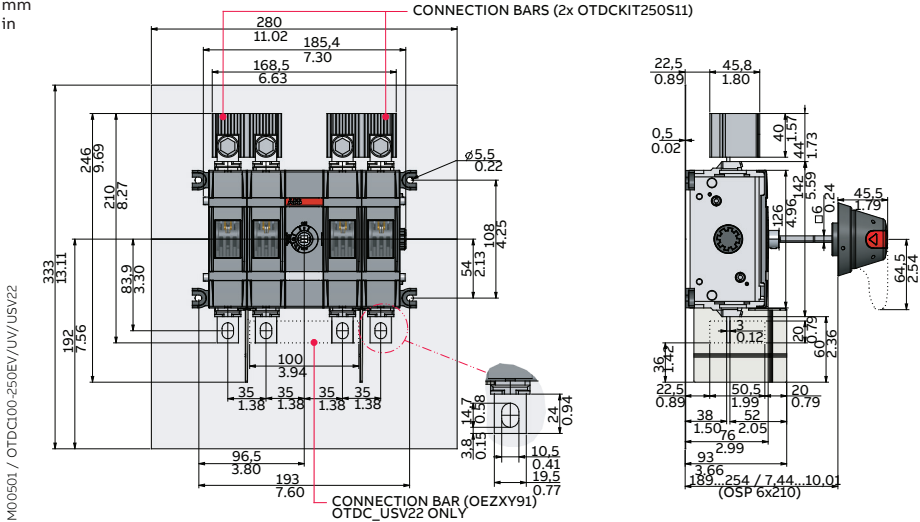
mm
in

M00499B / OTDC100-245U/US02/20S

mm
inmm
in

OTDC100...200EV22, OTDC100...200UV22, OTDC100...200USV22

mm
in



Contact us

ABB Oy

P.O. Box 622
FI-65101 Vaasa
Finland

abb.com/lowvoltage



BG	Внимание! Опасно напряжение! Да се монтира само от лице с електротехническа квалификация.
CN	警告！电压危险！只能由专业电工进行安装。
CZ	Varování! Nebezpečné napětí! Montáž smí provádět výhradně elektrotechnik!
DA	Advarsel! Farlig elektrisk spænding! Installation må kun foretages af personer med elektroteknisk ekspertise.
DE	Warnung! Gefährliche Spannung! Installation nur durch elektrotechnische Fachkraft.
EL	Προειδοποίηση! Υψηλή τάση! Η εγκατάσταση πρέπει να γίνεται μόνο από εξειδικευμένους ηλεκτροτεχνικούς.
EN	Warning! Hazardous voltage! Installation by person with electrotechnical expertise only.
ES	¡Advertencia! ¡Tensión peligrosa! La instalación deberá ser realizada únicamente por electricistas especializados.
ET	Hoiatus! Ohtlik pinge. Paigaldada võib ainult elektrotehnika-alane ekspert.
FI	Varoitus! Vaarallinen jännite! Asennuksen voi tehdä vain sähköalan ammattihenkilö.
FR	Avertissement! Tension électrique dangereuse! Installation uniquement par des personnes qualifiées en électrotechnique.
HR	Upozorenje! Opasan napon! Postavljati smije samo elektrotehnički stručnjak.
HU	Figyelmeztetés! Veszélyes feszültség! Csak elektrotechnikai tapasztalattal rendelkező szakember helyezheti üzembe.
IE	Rabhadh! Voltas gaiseach! Ba chóir do dhuine ag a bhfuil saineolas leictreiciúil, agus an té sin amháin, é seo a shuiteáil.
IT	Avvertenza! Tensione pericolosa! Fare installare solo da un elettricista qualificato.
LT	Dėmesio! Pavojinga įtampa! Dirbti leidžiama tik elektrotechnikai patirties turintiems asmenims.
LV	Uzmanību! Bīstami - elektrība! Montāžas darbus drīkst veikt tikai personas, kurām ir atbilstošas elektrotehniskās zināšanas.
MT	Twissja! Vultaġġ perikoluż! Għandu jiġi installat biss minn persuna b'kompetenza elettroteknika.
NL	Waarschuwing! Gevaarlijke spanning! Mag alleen geïnstalleerd worden door een deskundige elektrotechnicus.
NO	Advarsel! Farlig spenning! Montering skal kun utføres av kvalifiserte personer med elektrokompetanse.
PL	Ostrzeżenie! Niebezpieczne napięcie! Instalacji może dokonać wyłącznie osoba z fachową wiedzą w dziedzinie elektrotechniki.
PT	Aviso! Tensão perigosa! A instalação só deve ser realizada por um electricista especializado.
RO	Avertizare! Tensiune periculoasă! Instalarea trebuie efectuată numai de către o persoană cu experiență în electrotehnică.
RU	Осторожно! Опасное напряжение! Монтаж должен выполняться только специалистом-электриком.
SE	Varning! Farlig spänning! Installation får endast utföras av en elektriker.
SK	Varovanie! Nebezpečné napätie! Montáž môže vykonávať iba skúsený elektrotechnik.
SL	Opozorilo! Nevarna napetost! Vgradnjo lahko opravi le oseba z elektrotehničnim strokovnim znanjem.