ACS580-01 drives, frames R6 to R9 Quick installation and start-up guide

R6-R9





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List of related manuals in English

Drive manuals and guides

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R9

Ratings and fuses

IEC ratings at $U_{\rm N}$ = 230 V, 400 V and 480 V

 $U_{\rm N} = 230 \text{ V}$

Type	Input			0	utput rat	ings				Frame
ACS580 -01-	rating	Max. current		al use	Light-d	uty use	Heavy-c	luty use	losses	size
	<i>I</i> ₁	I _{max}	I _N	P _N	I _{Ld}	P _{Ld}	/ _{Hd}	P _{Hd}		
	Α	Α	Α	kW	Α	kW	Α	kW	W	
3-phase	U _N = 23	0 V								
144A-2	144	205	144	37	143	37	114	30	1035	R6
171A-2	171	257	171	45	169	45	143	37	1251	R7
213A-2	213	304	213	55	211	55	169	45	1521	R7
276A-2	276	380	276	75	273	75	211	55	2061	R8

3AXD00000586715.xls L

Туре	Input ratings	Output	ratings	Frame size
ACS580-01-	I ₁	I _N	P _N	
	Α	A ¹⁾	kW	
1-phase <i>U</i> _N = 230 \	V			
144A-2	137	68	18.5	R6
171A-2	153	80	22	R7
213A-2	209	104	30	R7
276A-2	258	130	37	R8

3AXD00000586715.xls L

$$U_{\rm N} = 400 \, \rm V$$

Type	Input		Output ratings							Frame
ACS580 -01-	rating	Max. current	Nomin	al use	Light-d	uty use	Heavy-c	luty use	losses	size
	<i>I</i> ₁	I _{max}	I _N	P _N	I _{Ld}	P_{Ld}	/ _{Hd}	P _{Hd}		
	Α	Α	Α	kW	Α	kW	Α	kW	W	
3-phase	$U_{\rm N} = 40$	0 V								
145A-4	145	178	145	75	138	75	105	55	2492	R6
169A-4	169	247	169	90	161	90	145	75	2536	R7
206A-4	206	287	206	110	196	110	169	90	3391	R7
246A-4	246	350	246	132	234	132	206	110	3945	R8
293A-4	293	418	293	160	278	160	246 ¹⁾	132	5174	R8
363A-4	363	498	363	200	345	200	293	160	6294	R9
430A-4	430	545	430	250	400	200	363 ²⁾	200	8231	R9

3AXD00000586715.xls L

¹⁾ Continuous current, no overloadability

R6-R9

$U_{N} = 480 \text{ V}$

Type	Input			Outpu	ıt ratir	ngs			Max.	Air	Frame							
ACS580 -01-	rating	Max. current	No	minal	use Heavy-duty use		vy-duty use		Heavy-duty use		Heavy-duty use		Heavy-duty use		avy-duty use	105565	osses flow	size
	<i>I</i> ₁	I _{max}	I _{Ld}	P	Ld	I _{Hd}	P	Hd										
	Α	Α	Α	kW	hp	Α	kW	hp	W	m ³ /h								
3-phase	$U_{\rm N} = 480$	V		<u> </u>				<u> </u>										
145A-4	124	178	124	75	100	96	55	75	1476	435	R6							
169A-4	156	247	156	90	125	124	75	100	1976	450	R7							
206A-4	180	287	180	110	150	156	90	125	2346	450	R7							
246A-4	240	350	240	132	200	180	110	150	3336	550	R8							
293A-4	260	418	260	160	200	240 ¹⁾	132	150	3936	550	R8							
363A-4	361	542	361	200	300	302	160	250	4836	1150	R9							
430A-4	414	542	414	250	350	361 ²⁾	200	300	6036	1150	R9							

3AXD00000586715.xls L

gG fuses

Type ACS580-01-	Min. short-	Input current	gG (IEC 60269)							
	current ¹⁾		Nominal current	<i>l</i> ²t	Voltage rating	ABB type	IEC 60269			
	Α	Α	Α	A ² s	V		size			
3-phase $U_{\rm N}$ = 23	80 V									
144A-2	1700	144.0	200	300000	500	OFAF0H200	0			
171A-2	2300	171.0	250	600000	500	OFAF0H250	0			
213A-2	3300	213.0	315	710000	500	OFAF1H315	1			
276A-2	5500	276.0	400	1100000	500	OFAF2H400	2			
3-phase <i>U</i> _N = 40	00 or 480 V									
145A-4	1700	145	160	185000	500	OFAF00H160	00			
169A-4	3300	169	250	600000	500	OFAF0H250	0			
206A-4	5500	206	315	710000	500	OFAF1H315	1			
246A-4	6400	246	355	920000	500	OFAF1H355	1			
293A-4	7800	293	425	1300000	500	OFAF2H425	2			
363A-4	9400	363	500	2000000	500	OFAF2H500	2			
430A-4	10200	430	630	2800000	500	OFAF3H630	3			

¹⁾ Minimum short-circuit current of the installation

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R9

uR or aR fuses

Type	Min. short-		uR or aR (DIN 43620 blade style)						
ACS580 -01-	circuit current ¹⁾	current	Nominal current	<i>i</i> ²t	Voltage rating	Bussmann type	IEC 60269 size		
	Α	Α	Α	A ² s	V				
3-phase <i>U</i>	_N = 230 V								
144A-2	1000	144.0	315	46500	690	170M3817	1		
171A-2	1280	171.0	450	105000	690	170M5809	2		
213A-2	1450	213.0	500	155000	690	170M5810	2		
276A-2	2050	276.0	630	220000	690	170M6810	3		
3-phase <i>U</i>	_N = 400 or 48	30 V							
145A-4	1280	145	315	46500	690	170M3817	1		
169A-4	1800	169	450	105000	690	170M5809	1		
206A-4	2210	206	500	145000	690	170M5810	1		
246A-4	3010	246	630	275000	690	170M5812	2		
293A-4	4000	293	800	490000	690	170M6812D	2		
363A-4	5550	363	1000	985000	690	170M6814D	2		
430A-4	7800	430	1250	2150000	690	170M8554D	2		

3AXD00000586715.xls L

¹⁾ Minimum short-circuit current of the installation

210	Min. short-							
ACS580 -01-	circuit current ¹⁾	current	Nominal current	<i>l</i> ² t	Voltage rating	Bussmann type	IEC 60269 size	
	А	Α	Α	A ² s	V			
3-phase <i>U</i> _l	= 400 or 48	30 V						
145A-4	1000	145	250	28500	690	170M3016	1	
169A-4	1280	169	315	46500	690	170M3017	1	
206A-4	1520	206	350	68500	690	170M3018	1	
246A-4	2050	246	450	105000	690	170M5009	2	
293A-4	2200	293	500	145000	690	170M5010	2	
363A-4	3100	363	630	275000	690	170M5012	2	
430A-4	3600	430	700	405000	690	170M5013	2	

3AXD00000586715.xls L

¹⁾ Minimum short-circuit current of the installation

EN - R6...R9 Quick installation guide

This guide briefly describes how to install the drive for IEC use. For complete information on installation, see ACS580-01 (0.75 to 250 kW, 1.0 to 350 hp) hardware manual (3AXD50000044794 [English]). For start-up instructions, see chapter EN -Quick start-up quide on page 23.

To read a manual, go to www.abb.com/drives/documents and search for the document number

R6-R9

Obey the safety instructions



WARNING! Obey these instructions. If you ignore them, injury or death, or damage to the equipment can occur:

- If you are not a qualified electrical professional, do not do electrical installation work.
- Do not work on the drive, motor cable or motor when main power is applied. If the drive is already connected to the input power, wait for 5 minutes after disconnecting the input power.
- Do not work on the control cables when power is applied to the drive or to the external control circuits
- Use the lifting eyes of the drive when you lift the drive. Do not tilt the drive. The drive is heavy and its center of gravity is high. An overturning drive can cause physical injury.
- Make sure that debris from drilling, cutting and grinding does not enter the drive when installing.
- Make sure that the floor below the drive and the wall where the drive is installed are non-flammable

Check if capacitors need to be reformed

The capacitors must be reformed if the drive has not been powered (either in storage or unused) for a year or more.

You can determine the manufacturing time from the serial number, which you find on the type designation label attached to the drive. The serial number is of format MYYWWRXXXX. YY and WW tell the manufacturing year and week as follows:

YY: 17, 18, 19, ... for 2017, 2018, 2019, ...

WW: 01, 02, 03, ... for week 1, week 2, week 3, ... R6-

R9

For information on reforming the capacitors, see *Converter module capacitor reforming instructions* (3BFE64059629 [English]), available on the Internet at www.abb.com/drives/documents.

Select the power cables

Size the power cables according to local regulations to carry the nominal current given on the type designation label of your drive.

Ensure the cooling

See table *IEC ratings at UN* = 230 V, 400 V and 480 V on page 7 for the losses. The allowed operating temperature range of the drive is -15 to +50 °C (+5 to +122 °F). No condensation or frost is allowed. For more information on the ambient temperature and derating, see chapter *Technical data* in *ACS580-01* (0.75 to 250 kW, 1.0 to 350 hp) hardware manual (3AXD50000044794 [English]).

Protect the drive and input power cable

See tables gG fuses (on page 8) and uR or aR fuses (on page 9) for the fuses.

If you use gG fuses, make sure that the operating time of the fuse is below 0.5 seconds. Follow the local regulations.

Install the drive on the wall

Warning! The drive module is heavy (42 to 103 kg / 93 to 227 lb). Use a suitable lifting device. Do not lift the module manually. Make sure that the wall and the fixing devices can carry the weight.

Install the drive on the wall

See figure R6...R9 Figures A on page 31.

Check the insulation of the power cables and the motor

Check the insulation of the input cable according to local regulations before connecting it to the drive.

See figure B on page 31.

 Check the insulation of the motor cable and motor when the cable is disconnected from the drive. Measure the insulation resistance between each phase conductor and then between each phase conductor and the Protective Earth conductor using a measuring voltage of 1000 V DC. The insulation resistance of an ABB motor must exceed 100 Mohm (reference value at 25 °C or 77 °F). For the insulation resistance of other motors, see the manufacturer's instructions.

Note: Moisture inside the motor casing will reduce the insulation resistance. If moisture is suspected, dry the motor and repeat the measurement.

Check the compatibility with IT (ungrounded), cornergrounded delta, midpoint-grounded delta, and TT systems

See figure C on page 31.

EMC filter

A drive with the internal EMC filter connected can be installed to a symmetrically grounded TN-S system. If you install the drive to another system, you may need to disconnect the EMC filter. See section Checking the compatibility with IT (ungrounded), corner-grounded delta, midpoint-grounded delta, and TT systems (for IEC) in ACS580-01 (0.75 to 250 kW, 1.0 to 350 hp) hardware manual (3AXD50000044794 [English]).



WARNING! Do not install a drive with the EMC filter connected to a system that the filter is not suitable for. This can cause danger, or damage the drive.

Note: When the internal EMC filter is disconnected, the EMC compatibility of the drive is considerably reduced. See section EMC compatibility and motor cable length in chapter Technical data in ACS580-01 (0.75 to 250 kW, 1.0 to 350 hp) hardware manual (3AXD50000044794 [English]).

Ground-to-phase varistor

A drive with the ground-to-phase varistor connected can be installed to a symmetrically grounded TN-S system. If you install the drive to another system, you may need to disconnect the varistor. See section See section Checking the compatibility with IT (ungrounded), corner-grounded delta, midpoint-grounded delta, and TT systems (for IEC) in ACS580-01 (0.75 to 250 kW, 1.0 to 350 hp) hardware manual (3AXD50000044794 [English]).



WARNING! Do not install a drive with the ground-to-phase varistor connected to a system that the varistor is not suitable for. If you do, the varistor circuit can be damaged.

R6-R9

Connect the power cables

See figure *D* on page 32. Use symmetrical shielded cable for motor cabling. If the cable shield is the sole PE conductor for drive or motor, make sure that is has sufficient conductivity for the PE.

- Attach the residual voltage warning sticker in the local language next to the control board.
- 2. Remove the side plates of the cable entry box: Remove the retaining screws (2a) and slide the walls out (2b).
- 3. Remove the shroud on the power cable terminals by releasing the clips with a screwdriver (3a) and pulling the shroud out (3b).
- 4. Knock out holes in the shroud for the cables to be installed.
- Frames R8...R9: If you install parallel cables, also knock out holes in the lower shroud for the cables to be installed
- 6. Cut an adequate hole into the rubber grommet. Slide the grommet onto the cable.
- 7. Prepare the ends of the input power cable and motor cable as illustrated in the figure. If you use aluminum cables, put grease to the peeled aluminum cable before connecting it to the drive. Two different motor cable types are shown in the figures (7a, 7b). Note: The bare shield will be grounded 360 degrees. Mark the pigtail made from the shield as a PE conductor with yellow-and-green color.
- 8. Slide the cables through the holes in the cable entry and attach the grommets to the holes (the motor cable to the right and the input power cable to the left).
- Connect the motor cable:
 - Ground the shield 360 degrees under the grounding clamp (9a).
 - Connect the twisted shield of the cable to the grounding terminal (9b).
 - Connect the phase conductors of the cable to terminals T1/U, T2/V and T3/W.
 Tighten the screws to the torque given in the figure (9c). Note: Phase
 conductors (R8, R9) are detachable.
- 10. Connect the input power cable as in step 9. Use terminals L1, L2 and L3.
- 11. <u>R8...R9:</u> If you install parallel, install the second grounding shelf for the parallel power cables. Repeat steps 6...10.
- 12. Install the grounding shelf for the control cables.
- Reinstall the shroud on the power terminals.
- 14. Secure the cables outside the unit mechanically.
- 15. See figure *R6…R9 Figures E* on page 33. Ground the motor cable shield at the motor end. For minimum radio frequency interference, ground the motor cable shield 360 degrees at the lead-through of the motor terminal box.

R6-R9

Connect the control cables

See figure F on page 33. It shows an example with one analog signal cable and one digital signal cable. Make the connections according to the macro in use. The default connections of the ABB standard macro are shown in section Default I/O connections on page 16.

Example of connecting an analog signal cable:

- 1. Cut an adequate hole into the rubber grommet and slide the grommet onto the cable. Slide the cable through a hole of the bottom plate and attach the grommet to the hole.
- 2. Ground the stripped outer shield of the cable 360 degrees under the grounding clamp. Keep the cable otherwise unstripped as close to the terminals of the control board as possible. For analog signal cables, ground also the pair-cable shields and grounding wire at the SCR1 terminal. Secure the cables mechanically at the clamps below the control board.
- Route the cable as shown in the figure.
- 4. Connect the conductors to the appropriate terminals of the control board and tighten to 0.5...0.6 N·m (0.4 lbf·ft).
- 5. Tie all control cables to the provided cable tie mounts.
- 6. Put the unused rubber grommets to the holes in the lead-through plate.

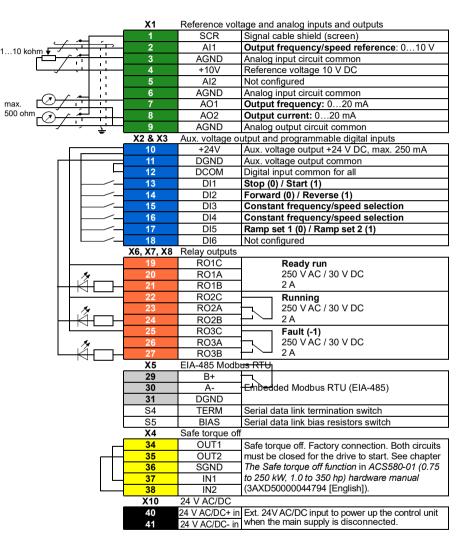
R6-

R9

ΕN

Default I/O connections

Default I/O connections of the ABB Standard macro are shown below.



Total load capacity of the Auxiliary voltage output +24V (X2:10) is 6.0 W (250 mA / 24 V DC).

Wire sizes: 0.14...2.5 mm² (26...16 AWG): All terminals

Tightening torques: 0.5...0.6 N·m (0.4 lbf·ft)

R6-R9

Install optional modules, if any

See chapter Electrical installation in ACS580-01 (0.75 to 250 kW, 1.0 to 350 hp) hardware manual (3AXD50000044794 [English]).

Install side plates and covers

See figure G on page 33.

IP21

- 1. Reinstall the side plates of the cable entry box (1a). Tighten the retaining screws with a screwdriver (1b).
- 2. Slide the cover of the cable entry box on the module from below until the cover snaps into place (2).
- 3. Reinstall the module cover (3a). Tighten the two retaining screws with a screwdriver (3b).

IP55

1. Reinstall the module cover (1a). Tighten the two retaining screws with a screwdriver (1b).

For start-up instructions, see chapter EN – Quick start-up guide on page 23

R6-R9

ΕN

R6-

R9

Compliance with the European Machinery Directive 2006/42/EC

Declaration of conformity

EU Declaration of Conformity

declare under our sole responsibility that the following product:

Machinery Directive 2006/42/EC

Manufacturer:

Address:

Hiomotie 13, 00380 Helsinki, Finland,

+358 10 22 11

Frequency converter(s)

ACS580-01

with regard to the safety function(s)

Safe Torque Off

is/are in conformity with all the relevant safety component requirements of EU Machinery Directive 2006/42/EC, when the listed safety function is used for safety component functionality.

The following harmonized standards have been applied:

EN 61800-5-2-2007

Adjustable speed electrical power drive systems - Part 5-2: Safety

requirements - Functional

EN 62061:2005 + AC:2010 + A1:2013 + A2:2015

Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems

EN ISO 13849-1:2015

Safety of machinery - Safety-related parts of control systems. Part 1:

General requirements

EN ISO 13849-2:2012

Safety of machinery - Safety-related parts of the control systems.

Part 2: Validation

EN 60204-1: 2006 + A1:2009 + AC:2010

Safety of machinery - Electrical equipment of machines - Part 1:

General requirements

The following other standards have been applied:

IEC 61508:2010, parts 1-2

Functional safety of electrical / electronic / programmable electronic

safety-related systems

IEC 61800-5-2:2016

Adjustable speed electrical power drive systems - Part 5-2: Safety

requirements - Functional

The product(s) referred in this Declaration of conformity fulfil(s) the relevant provisions of other European Union Directives which are notified in Single EU Declaration of conformity 3AXD10000497690.

Person authorized to compile the technical file

Name and address: Risto Mynttinen, Hiomotie 13, 00380 Helsinki, Finland,

Helsinki 27.03.2019

Manufacturer representative:

Tuomo Tarula

Vice President, ABB Oy

Document number 3AXD10000302783

GENERAL PURPOSE DRIVES

ACS580-01 drives

Quick start-up guide Frames R1 to R9

R1-R9



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EN – Quick start-up guide

This guide describes how to start-up the drive using the First start assistant on the assistant control panel. For complete information on start-up, see ACS580 standard control program firmware manual (3AXD50000016097 [English]).

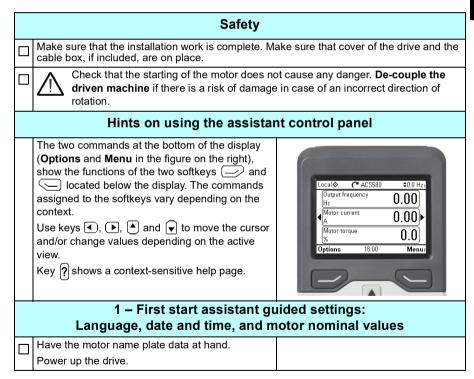
Before you start

Ensure that the drive has been installed as described in chapter EN - R6...R9 Quick installation guide on page 11 (frames R6...R9).



R1-

Start-up with the First start assistant on an assistant control panel



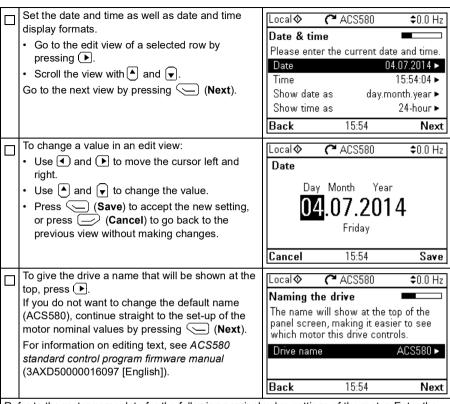
R1-

R9

The First start assistant guides you through the English first start-up. Deutsch The assistant begins automatically. Wait until the Suomi control panel enters the view shown on the right. Francais Select the language you want to use by Italiano highlighting it (if not already highlighted) and Nederlands pressing (OK). Svenska Note: After you have selected the language, it 0K **►** takes a few minutes for the control panel to wake Select Start set-up and press (Next). Local 🔷 C ACS580 ‡n n Hz Set-up assistant Set up drive now? Start set-up Exit & don't show at power-up Back 15:52 Next Select the localization you want to use and press Local 🛇 C ACS580 **\$**0.0 Hz (Next). Localization Unit defaults: International (SI) US standard (Imperial) Back 15:52 Next Change the units shown on the panel if needed. Local**⊘** C ACS580 \$0.0 Hz · Go to the edit view of a selected row by Units pressing (). Change the display units if needed. Power: k₩► Go to the next view by pressing (Next). °C ► Temperature: Torque: Nm► Currency: EUR► Back 15:53 Next To select a value in an edit view: C ACS580 Local� **\$**0.0 Hz Use and to select the value. Power: Press (Save) to accept the new setting, or kW press (Cancel) to go back to the previous hр view without making changes. Cancel 15:53 Save

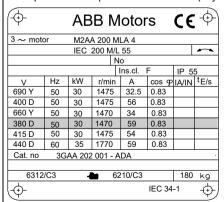
R1-

R9



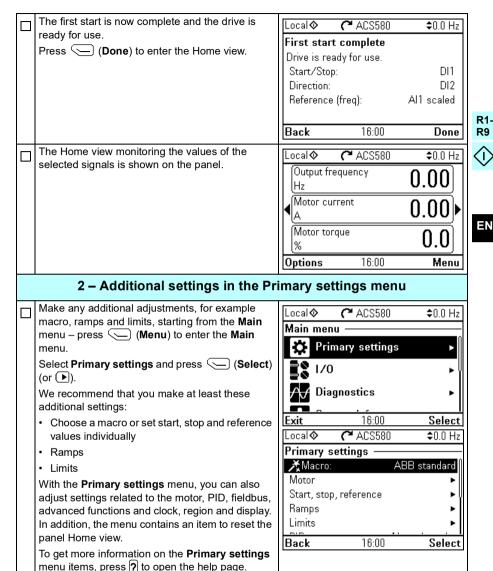
Refer to the motor nameplate for the following nominal value settings of the motor. Enter the values exactly as shown on the motor nameplate.

Example of a nameplate of an induction (asynchronous) motor:



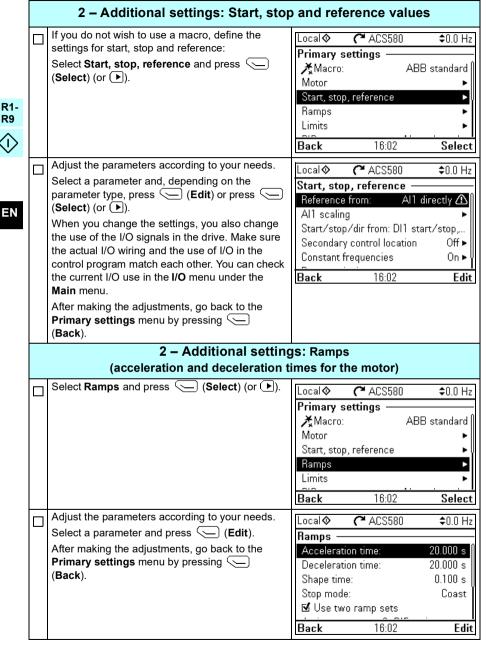
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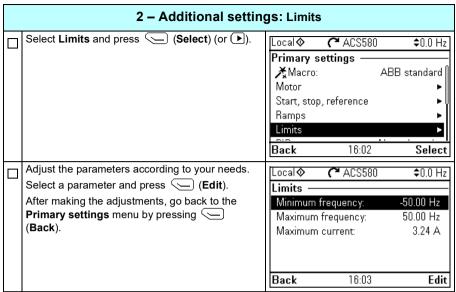
Check that the motor data is correct. Values are l ncal C ACS580 ‡nn Hz predefined on the basis of the drive size but you Motor nominal values should verify that they correspond to the motor. Find the values on the motor's Start with the motor type. nameplate, and enter them here: Motor nominal cosΦ and nominal torque are Type: Asynchronous motor ▶ optional. Current: Press (Next) to continue. 400.0 V ▶ Voltage: 15:56 Back Next This step is optional, and requires rotating the Local 🔷 C ACS580 ‡n n Hz motor. Do not do this if it could cause any risk, or if Direction test? the mechanical set-up does not allow it. Spin the motor to check direction? To do the direction test, select **Spin the motor** Not now and press (Next). Spin the motor Back 15:58 Next Press the Start key (on the panel to start the Local C ACS580 **\$**0.0 Hz drive Press Start Warning: Until set-up is done, safeties are not active and motor speed is 5 Press Start now to spin the motor, then check the direction of rotation. Back 15:59 Check the direction of the motor : ACS580 Local**⊘** \$5.0 Hz If it is forward, select Yes, motor is spinning Is this forward? forward and press (Next) to continue. Selecting "No, fix direction" tells the drive to change direction, and labels If the direction is not forward, select No, fix the new direction "forward". **direction** and press (Next) to continue. Yes, motor is spinning forward No, fix direction Back 15:59 Next If you want to make a backup of the settings made Local 🔷 C ACS580 **\$**0.0 Hz so far, select **Backup** and press (Next). Make backup? If you do not want to make a backup, select **Not** Copies all settings into a backup file now and press (Next). stored in the control panel. To restore a backup, go to Menu > Backups. Not now Backup Back 16:00 Next





R9





R1-R9



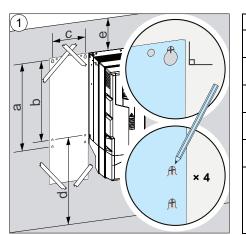
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R1-R9

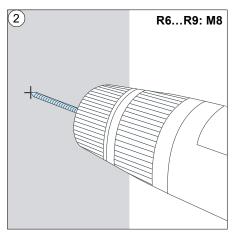


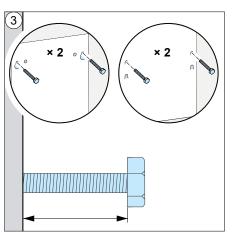
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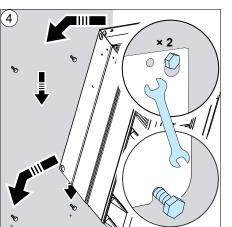
R6...R9 Figures A

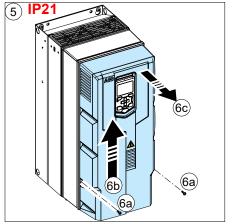


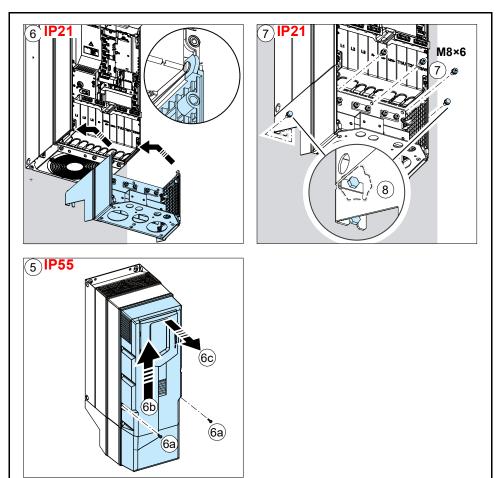
	R6	R7	R8	R9	
а	571/	623/	701/	718/	
(mm/in)	22.5	24.5	27.6	28.3	
b	b 531/		658/	658/	
(mm/in)	20.9	23.0	25.9	25.9	
С	213/	245/	263/	345/	
(mm/in)	8.4	9.7	10.3	13.6	
d >	300/	300/	300/	300/	
(mm/in)	11.8	11.8	11.8	11.8	
e >	155/	155/	155/	200/	
(mm/in)	6.1	6.1	6.1	7.9	
kg/lb	IP21	IP21	IP21	IP21	
Λ	42/94	54/119	69/152	97/214	
\i\	IP55	IP55	IP55	IP55	
	43/95	56/124	77/170	103/227	

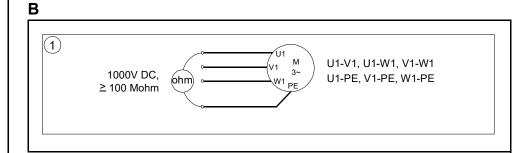


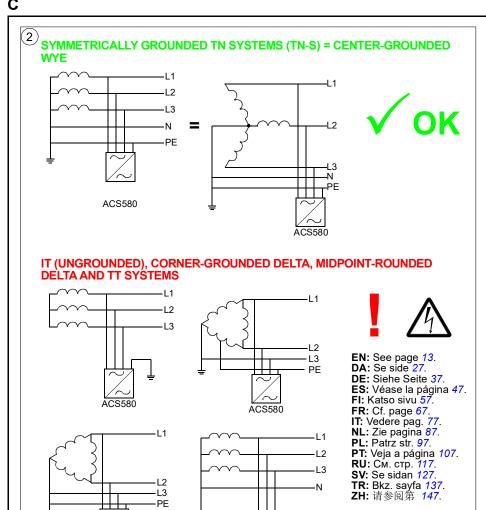


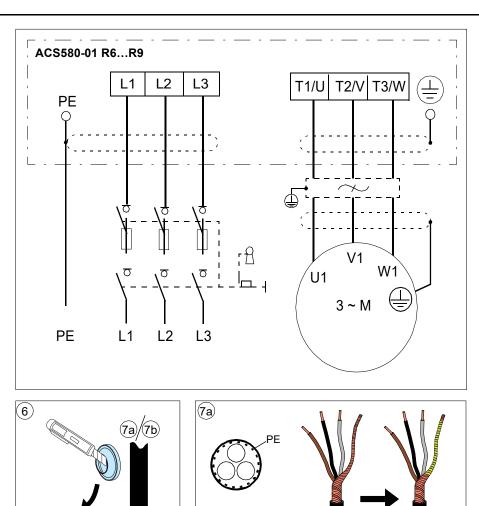


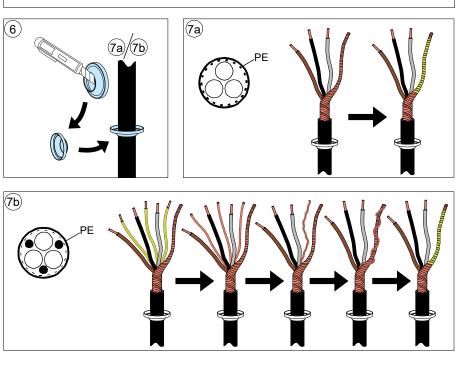


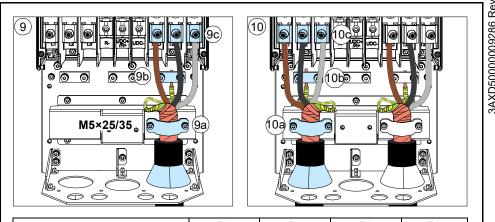




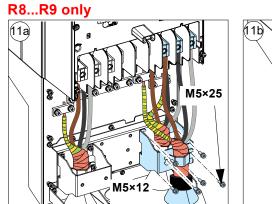


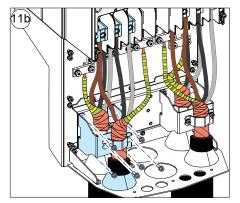


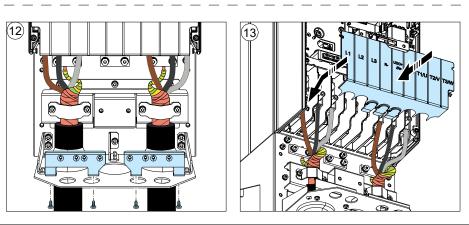




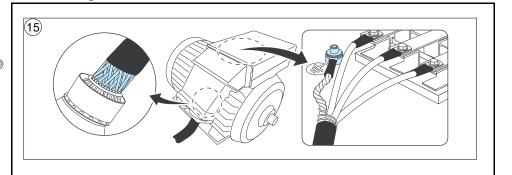
	R6		R7		R8		R9	
	N⋅m	lbf∙ft	N⋅m	lbf∙ft	N·m	lbf∙ft	N·m	lbf·ft
L1, L2, L3, T1/U, T2/V, T3/W	30	22	40	30	40	30	70	52
PE , ⊕	10	7	10	7	10	7	10	7
	1.2	0.9	1.2	0.9	1.2	0.9	1.2	0.9

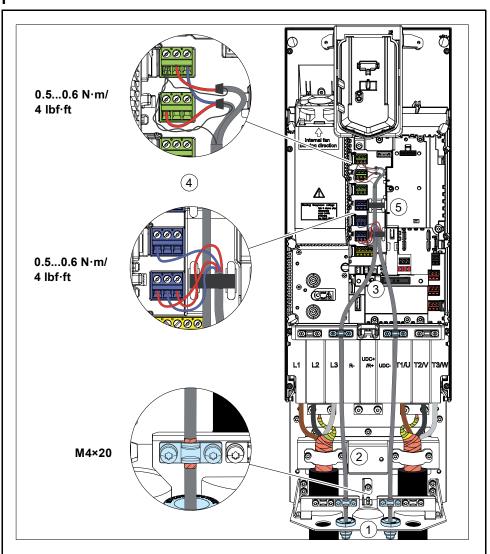


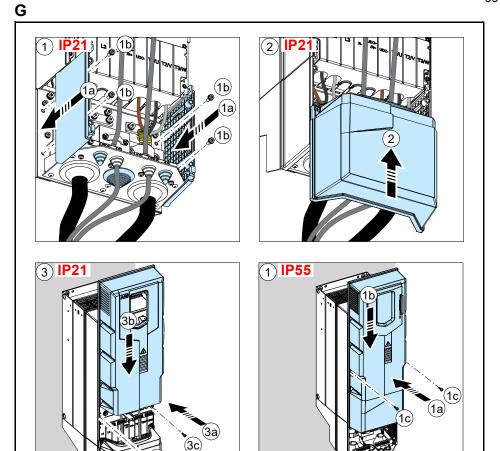




R6...R9 Figures E







Further information

Product and service inquiries

Address any inquiries about the product to your local ABB representative, quoting the type designation and serial number of the unit in question. A listing of ABB sales, support and service contacts can be found by navigating to www.abb.com/searchchannels.

Product training

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