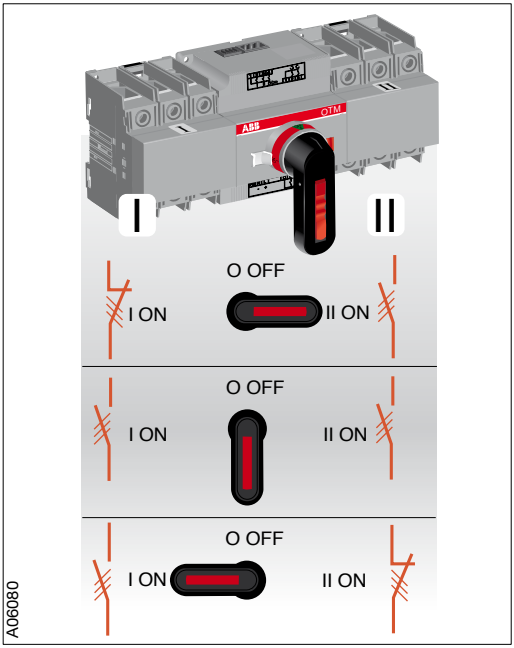
Motorized change-over switches OTM_F_C_

Installation instruction
34OTM_F_C_ / 1SCC303009M0201

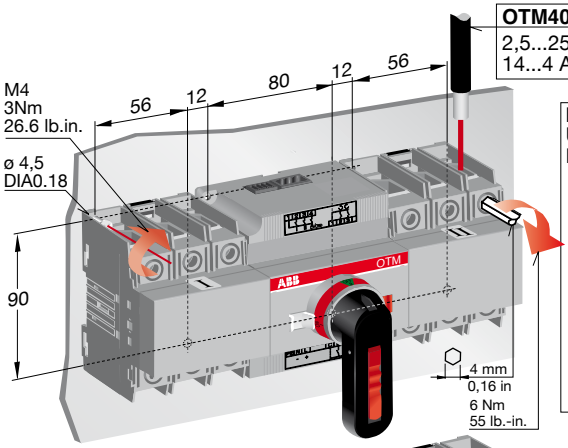


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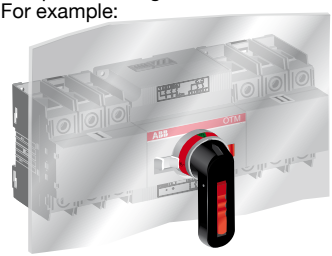
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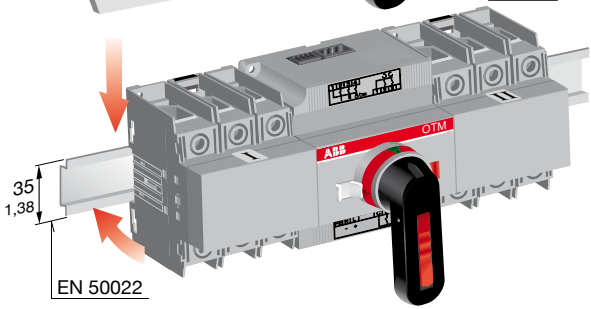


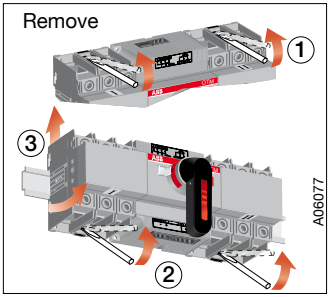
OTM40	OTM63-125
2,5...25mm² / 2 x 2,5 -16mm²	10...70mm²
14...4 AWG / 2 x 14 - 6 AWG	8...2/0 AWG



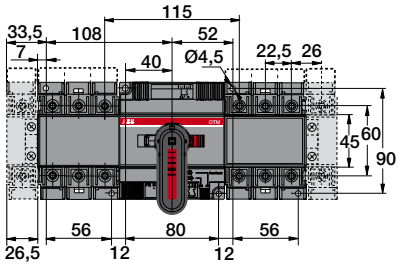
Note:
Use protection against direct contact.
For example:

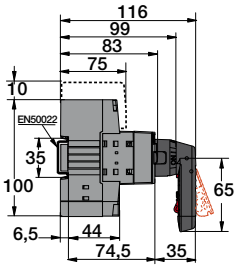


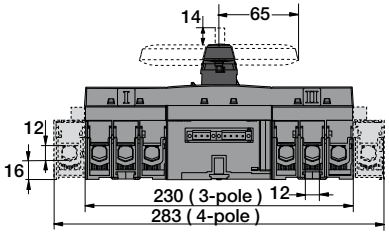




OTM30-125F_C_

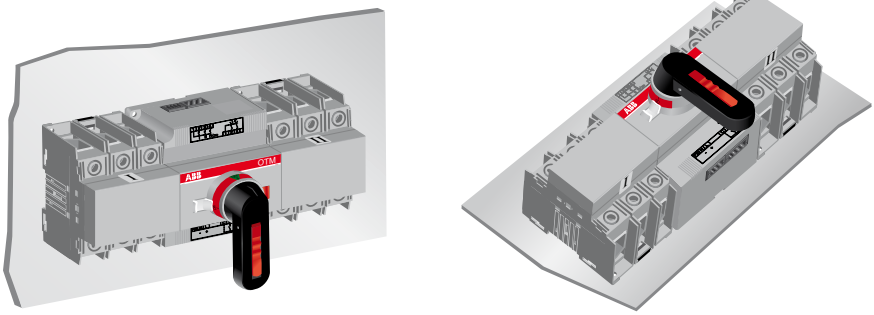






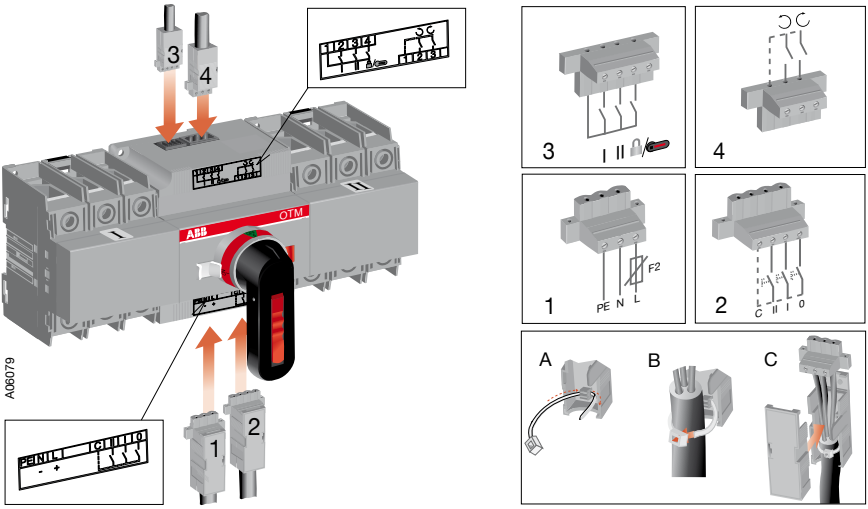
M00352/OTM30-125F_C_M A

Mounting positions



Control Circuit

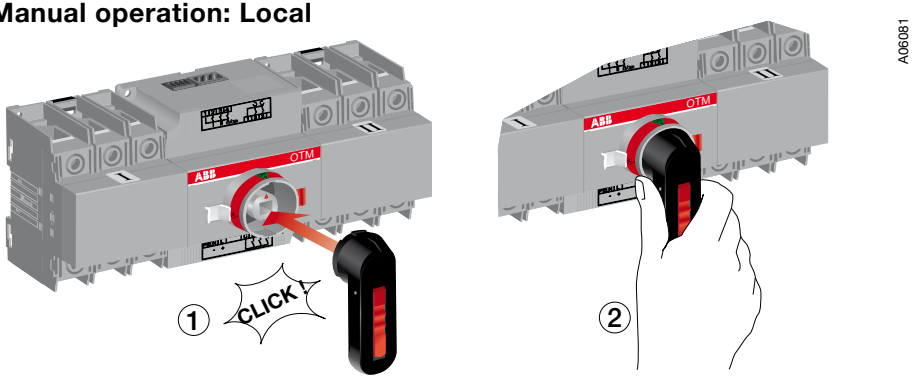
Only an authorised electrician may perform the electrical installation and maintenance of motorized switch. Do not attempt any installation or maintenance actions when a motorized switch is connected to the electrical mains. Before starting work, make sure that the switch is de-energised.



1. Terminal for motor operator voltage supply
2. Control terminal for push buttons
3. Terminal for state information (also used with the automatic control unit)
4. Control terminal for automatic control unit (If used OMD controller)

Do not couple power for the control terminal. See the correct terminal for the power supply.

Manual operation: Local



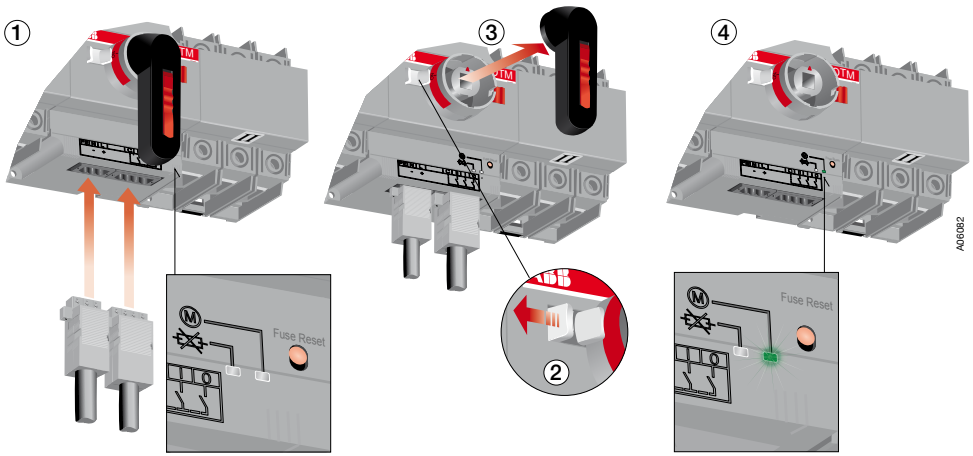
Electrical operation is prevented when the handle is attached to the switch panel.

Electrical operation: Remote

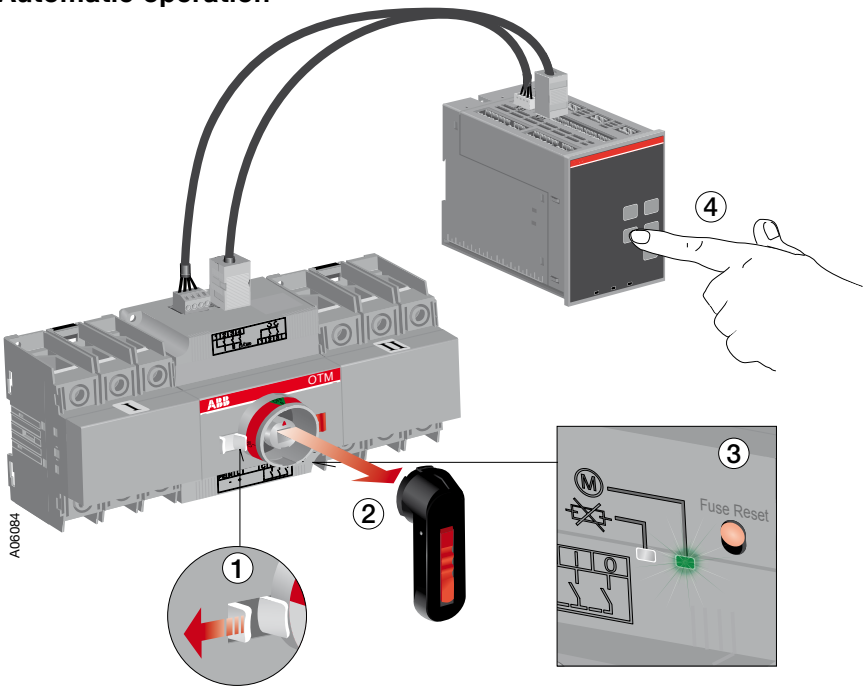
Never open any covers on the product. There may be dangerous external control voltages inside the motorized switch even if the voltage is turned off.

Never handle control cables when the voltage of the motorized switch or external control circuits are connected.

Exercise sufficient caution when handling the unit.

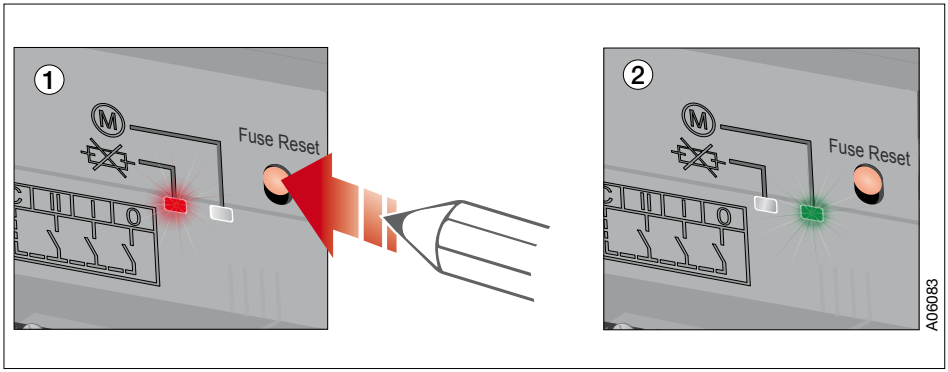


Automatic operation

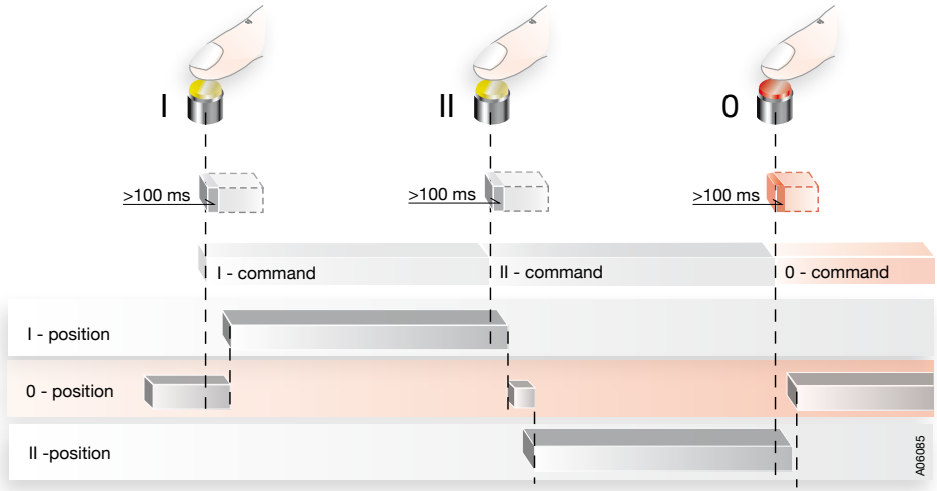


See detailed installation instructions for OMD controllers from OMD user manuals.

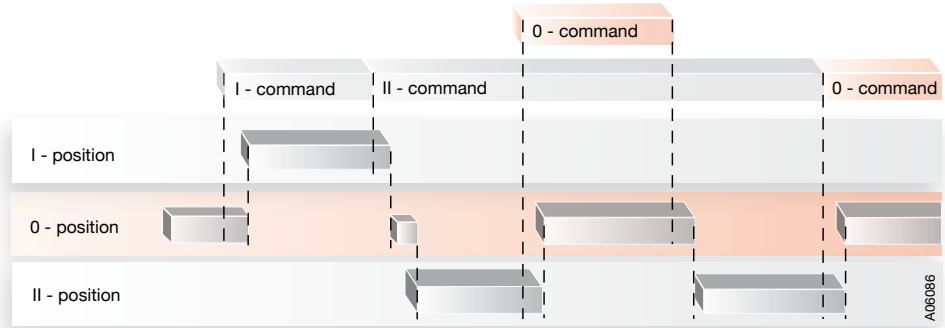
Resetting Fuse



Impulse control



Continuous control

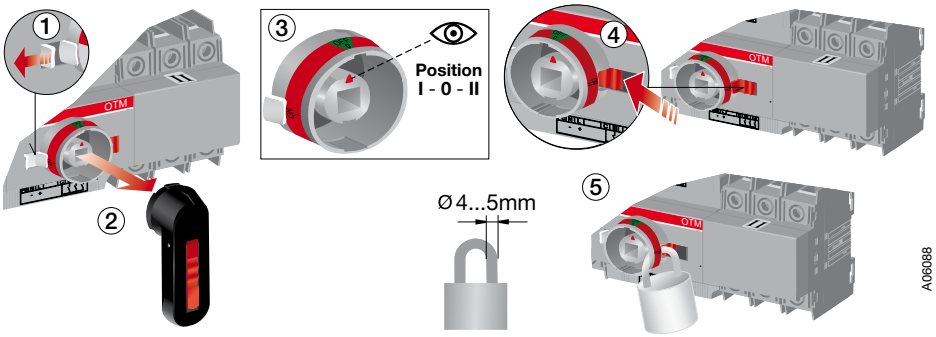


If a new command is given before the switch has reached the position of the previous command, the internal protection may operate.

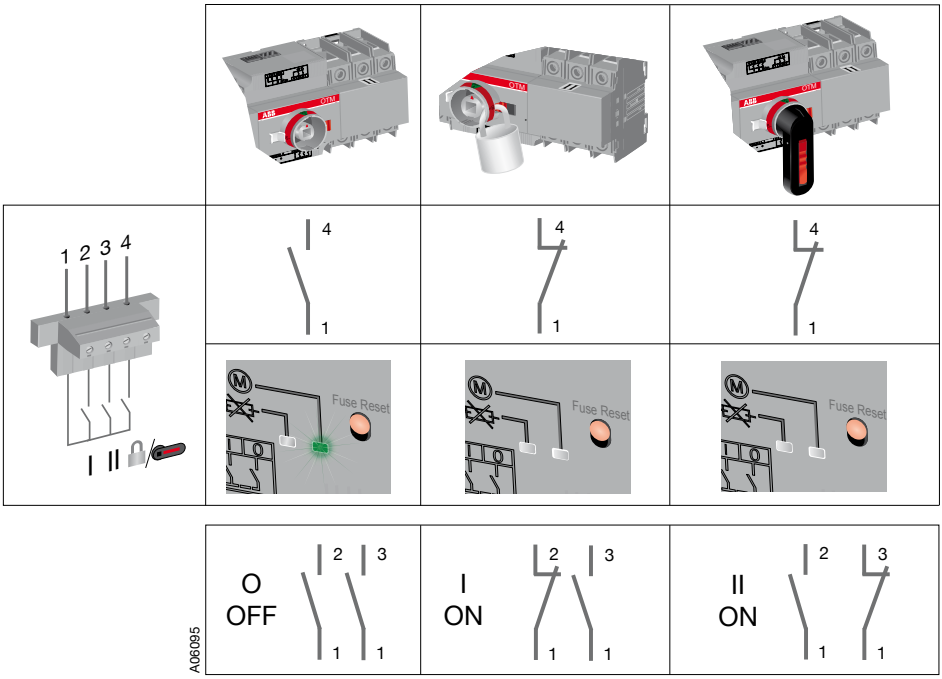
Locking

Prevent manual and electrical operation.

Locking possible at any position. Check position before locking.



State information



Technical data

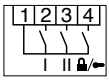
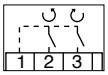
Motor operator, control circuit	Value	Cabling/Rating
Rated operational voltage U [V]	110-240 Vac/dc 50-60Hz	
	24 Vdc	
Operating voltage range	0.85... 1.1 x U	
Operating angle	90° 0-I, I-0, 0-II, II-0; 180° I-0-II	
Operating time	See Table 2	
Protection degree	IP 20, front panel	
Rated impulse withstand voltage Uimp	4 kV	
Voltage supply	**PE N L**	1,5 -2,5mm^2
F2	Max. MCB 16A	
Control terminal for the push-buttons	**C II I 0**	1,5 -2,5mm^2
Maximum cable length	100 m	
Terminal for state information Also used with the automatic control unit		1,5mm^2 3A AC-1/250V
Common, voltage supply	**1**	
Position of change-over switch I	**2**	
Position of change-over switch II	**3**	
Handle attached or motor operator locked	**4**	
SCPD	Max. MCB C2A	
Control terminal for automatic control unit If used OMD_ controller		1,5-2,5mm^2
Common, voltage supply from motor operator	**1**	24VDC
Close switch I or open switch II	**2**	24VDC 500mW
Close switch II or open switch I	**3**	24VDC 500mW
Operating temperature	-25... +55 °C	
Transportation and storage temperature	-40... +70 °C	
Altitude	Max. 2000m	

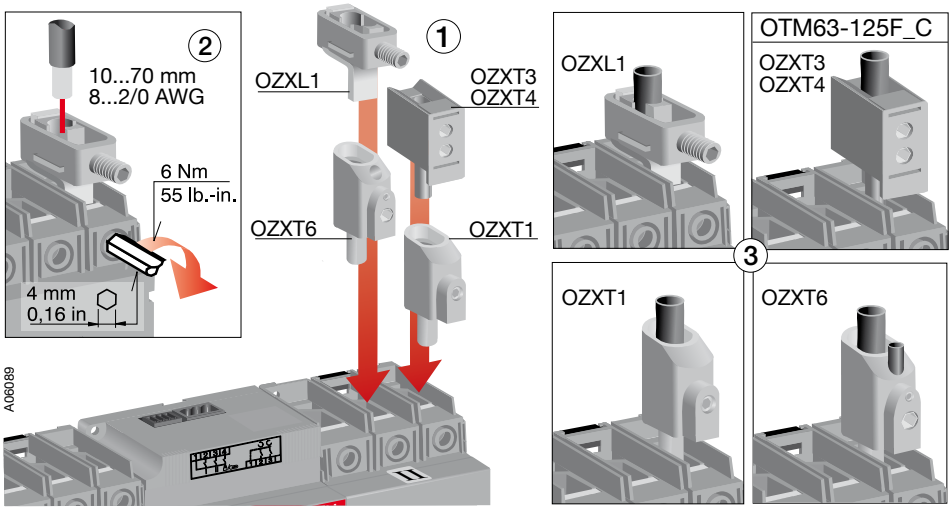
Table 1 General technical data of motor operators

Type	Voltage U_e [V]	Nominal current [a] I_n [A]	Current Inrush [a] [A]	Operating time [a] I-0, 0-I, 0-II, II-0 [s]	Operating transfer time [a] I-II or II-I [s]	OFF-time when operating [a] I-II or II-I [s]
OTM40...125_C	110-240 Vac/dc	0,2 - 0,5	1,5 - 3,0	0,5 - 1,0	1,2 - 1,5	0,4 - 0,8
	24 Vdc					

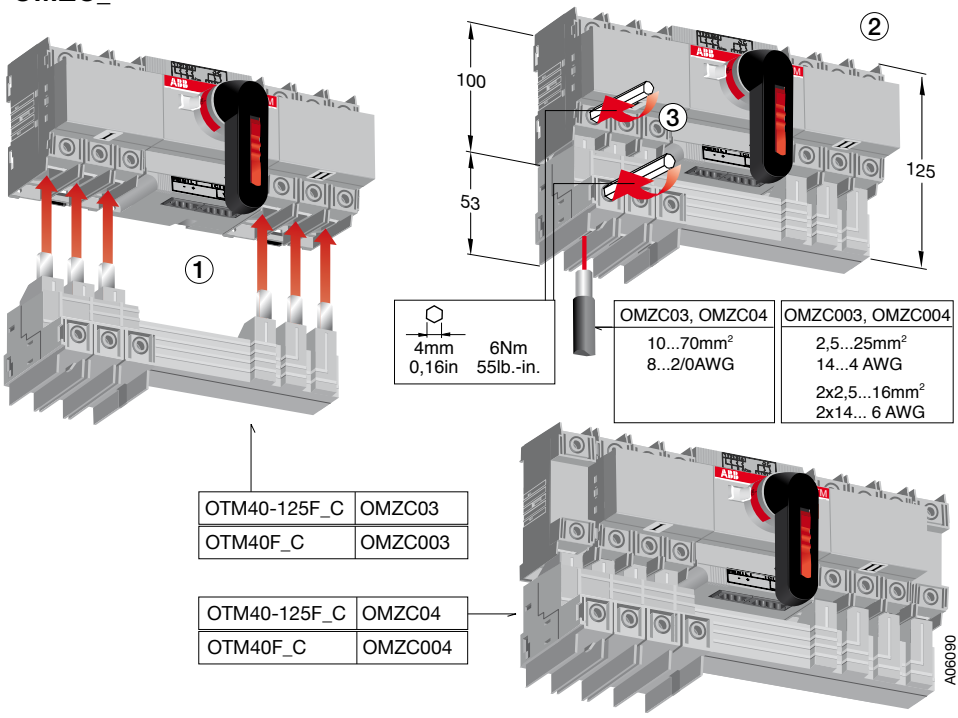
a) Under nominal conditions

Table 2 Specified technical data of motor operators

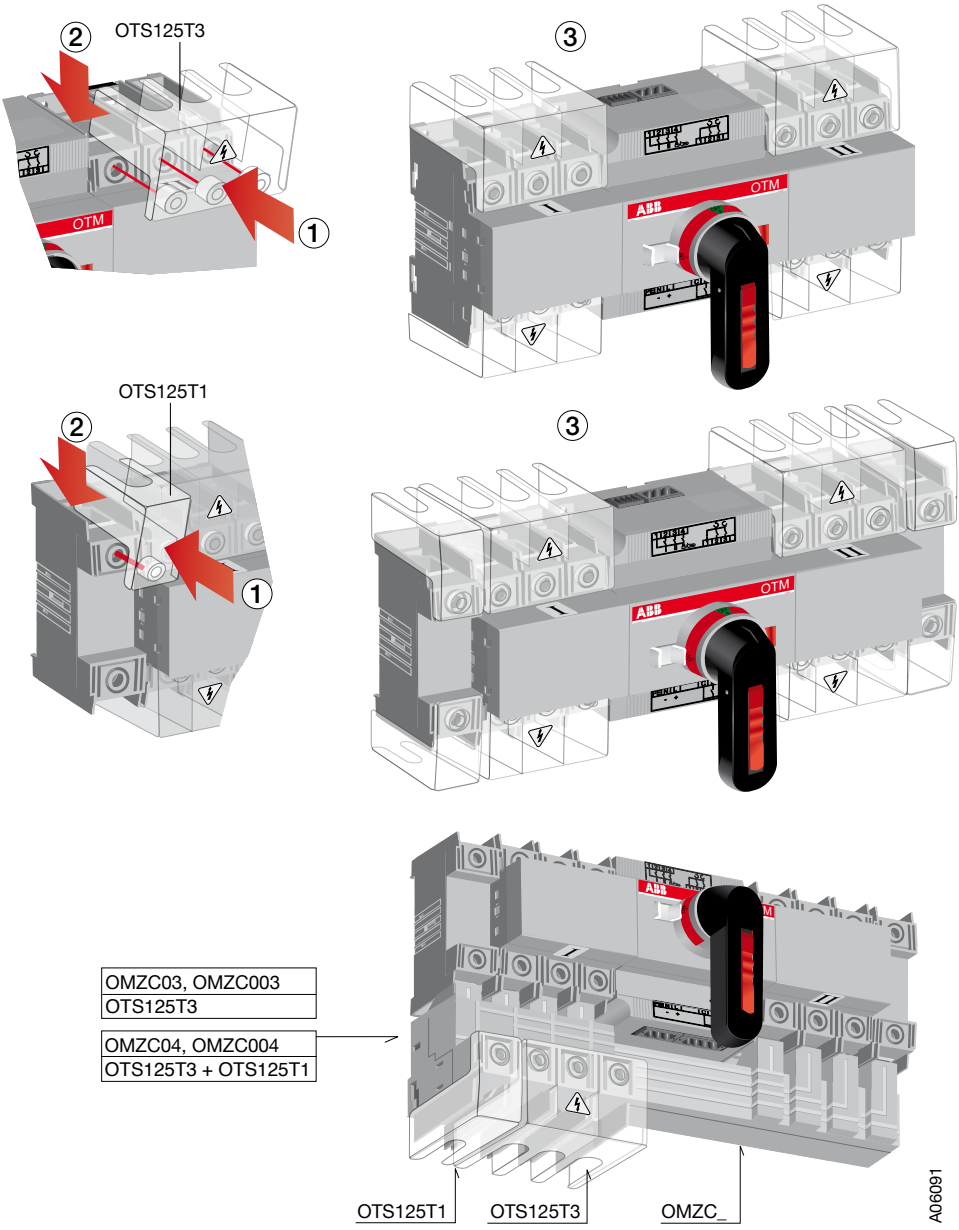
OZX_


2
10...70 mm
8...2/0 AWG
6 Nm
55 lb.-in.
4 mm
0,16 in
1
OZXL1
OZXT3
OZXT4
OZXT6
OZXT1
A06089
OZXL1
OTM63-125F_C
OZXT3
OZXT4
3
OZXT1
OZXT6

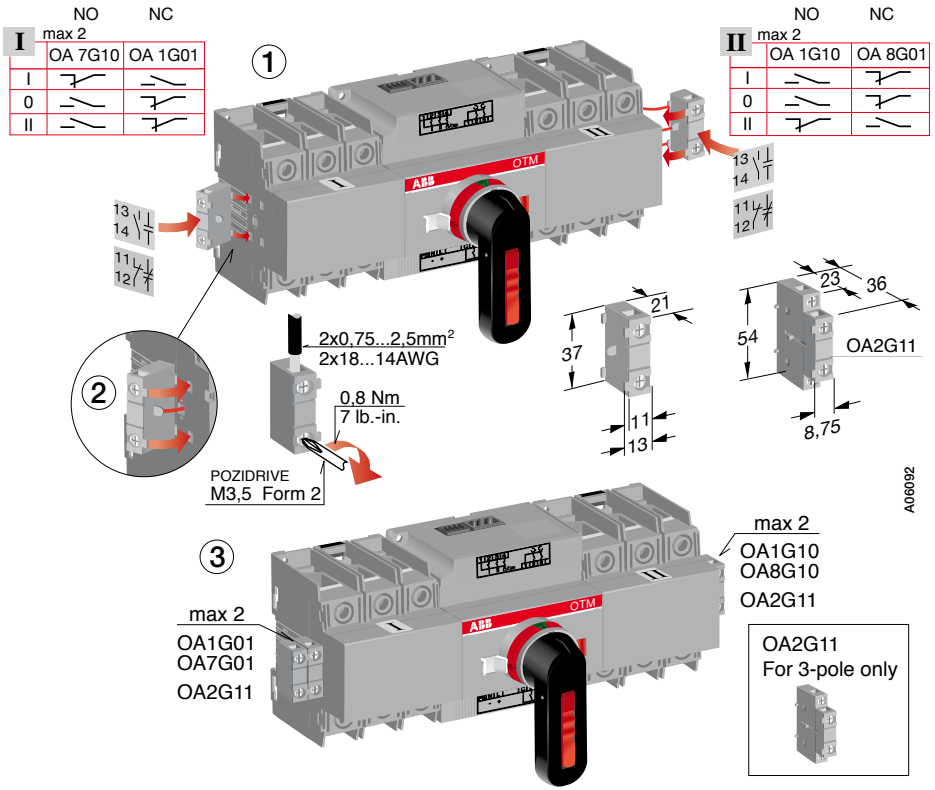
OMZC_


1
2
3
100
53
125
4mm
0,16in
6Nm
55lb.-in.
OMZC03, OMZC04
10...70mm²
8...2/0AWG
OMZC003, OMZC004
2,5...25mm²
14...4 AWG
2x2,5...16mm²
2x14... 6 AWG
OTM40-125F_C
OMZC03
OTM40F_C
OMZC003
OTM40-125F_C
OMZC04
OTM40F_C
OMZC004
A06090

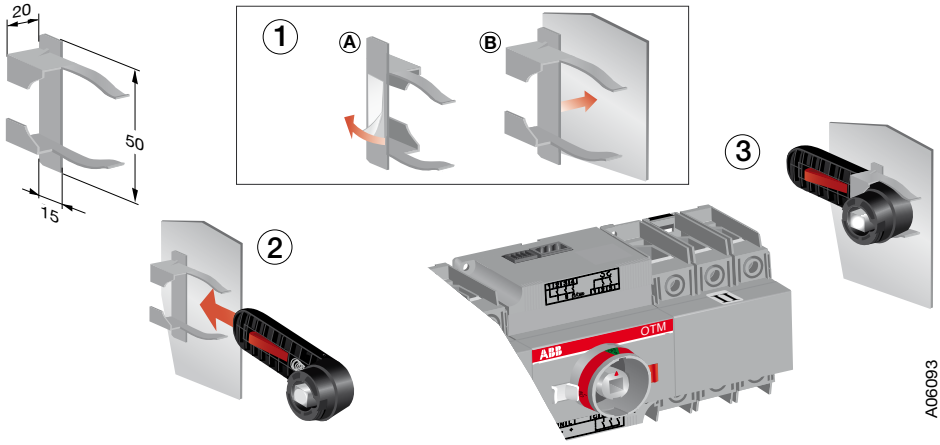
OTS_


2
OTS125T3
1
OTM
3
ABB
OTM
OTS125T1
2
1
3
ABB
OTM
OMZC03, OMZC003
OTS125T3
OMZC04, OMZC004
OTS125T3 + OTS125T1
OTS125T1
OTS125T3
OMZC_
A06091

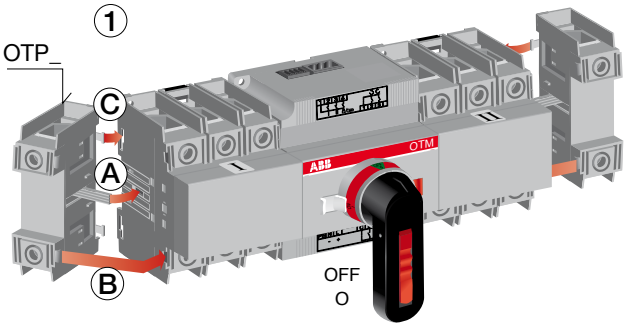
OA_


I
max 2
NO NC
OA 7G10 OA 1G01
I
0
II
II
max 2
NO NC
OA 1G10 OA 8G01
I
0
II
1
2
3
ABB OTM
13 14
11 12
2x0.75...2.5mm²
2x18...14AWG
0,8 Nm
7 lb.-in.
POZIDRIVE
M3,5 Form 2
21
37
11
13
23
36
54
OA2G11
8,75
A06092
max 2
OA1G10
OA8G10
OA2G11
max 2
OA1G01
OA7G01
OA2G11
OA2G11
For 3-pole only

OTVS0

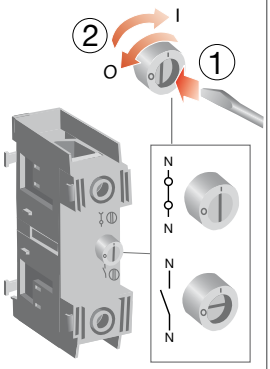

20
50
15
1
A
B
2
3
ABB OTM
A06093

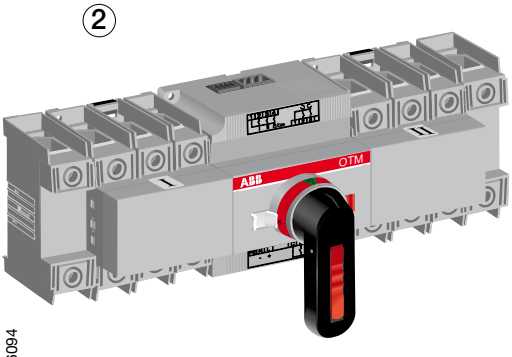
OTP_

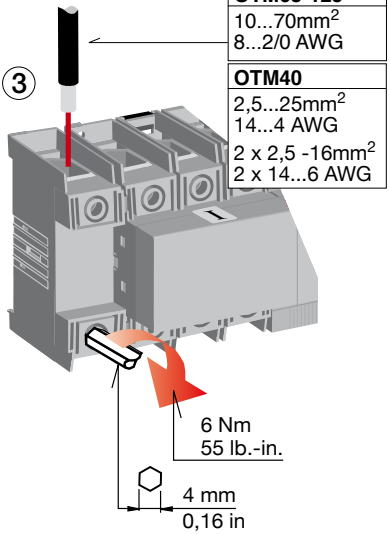


OTM40	OTPS60FP	OTPL60FP	OTPN60FP	OTPE60FP
OTM63-125	OTPS125FP	OTPL125FP	OTPN125FP	OTPE125FP
	(N)7 L4 (N)8 T4	N N	N N	PE PE

OTPD60FP
OTPD125FP







OTM63-125
10...70mm^2 8...2/0 AWG
OTM40
2,5...25mm^2 14...4 AWG
2 x 2,5 -16mm^2 2 x 14...6 AWG

A06094

Printed by: Waasa Graphics Oy, Vaasa Finland
Producted by: GRAFIMER, Vaasa, Finland



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Low Voltage Switches
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FI-65101 VAASA, Finland
Telephone +358 10 22 11
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