

## Switch-disconnector, DCM, 63 A, 4 pole, With blue rotary handle and drive shaft, Vertical connection

Part no. **DCM-63/4+CM**  
Catalog No. **1314007**

## Delivery program

Product range			Switch-disconnector Main switch maintenance switch
Part group reference			DCM
Number of poles			With blue rotary handle and drive shaft
			4 pole
<b>Auxiliary contacts</b>			
	N/O	0	
	N/C	0	
Notes			1 padlock, # 5 mm
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			IP20
Design			flush mounting
<b>Motor rating AC-23A, 50 - 60 Hz</b>			
400 V	P	kW	30
Rated uninterrupted current	I <sub>u</sub>	A	63
Note on rated uninterrupted current I <sub>u</sub>			Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.
Connection technique			Vertical connection

## Technical data

<b>General</b>			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204 Switch-disconnector according to IEC/EN 60947-3
Certifications			CE, RoHS, KEMA, EAC, Lloyds
Ambient temperature			
Operation	θ	°C	-25 - +55
Storage	θ	°C	-30 - +80
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U <sub>imp</sub>	kV	6
Rated insulation voltage	U <sub>i</sub>	V	690
Mounting position			As required

**Contacts**

<b>Mechanical variables</b>			
Number of poles			4 pole
Auxiliary contacts			
	N/O	0	
	N/C	0	
<b>Electrical characteristics</b>			
Rated operational voltage	U <sub>e</sub>	V AC	415
Rated uninterrupted current	I <sub>u</sub>	A	63
Note on rated uninterrupted current I <sub>u</sub>			Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.
<b>Short-circuit rating</b>			
fuse			50
Rated conditional short-circuit current	I <sub>q</sub>	kA	50

Breaking current		kA	7
max. let-through energy		kA <sup>2</sup> s	12
Rated short-time withstand current (1 s current)	I <sub>cw</sub>	A <sub>rms</sub>	1500
Note on rated short-time withstand current I <sub>cw</sub>			Current for a time of 1 second
Rated short-circuit making capacity	I <sub>cm</sub>	kA <sub>eff</sub>	1.4
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	3.9

### Switching capacity

Rated breaking capacity cos φ to IEC 60947-3		A	
400/415 V		A	504
Safe isolation to EN 61140			
Current heat loss per contact at I <sub>e</sub>		W	3.9
Lifespan, mechanical	Operations		10000
AC			
AC-21A			
Rated operational current switch			
400 V 415 V	I <sub>e</sub>	A	63
AC-22A			
Rated operational current switch			
400 V 415 V	I <sub>e</sub>	A	63
AC-23A			
Rated operational current switch			
400 V 415 V	I <sub>e</sub>	A	63
Motor rating AC-23A, 50 - 60 Hz	P	kW	
400 V 415 V	P	kW	30

### Terminal capacities

Solid		mm <sup>2</sup>	2.5 - 16
Flexible with ferrules to DIN 46228		mm <sup>2</sup>	
flexible		mm <sup>2</sup>	1.5 - 25
Stripping length		mm	14
Tightening torque for terminal screw		Nm	2

### Technical safety parameters:

Notes		B10 <sub>d</sub> values as per EN ISO 13849-1, table C1
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### Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I <sub>n</sub>	A	63
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	3.9
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.

10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

Version as main switch	Yes
Version as maintenance-/service switch	Yes
Version as safety switch	No
Version as emergency stop installation	No
Version as reversing switch	No
Number of switches	1
Max. rated operation voltage Ue AC	V 415
Rated operating voltage	V 415 - 415
Rated permanent current Iu	A 63
Rated permanent current at AC-23, 400 V	A 63
Rated permanent current at AC-21, 400 V	A 63
Rated operation power at AC-3, 400 V	kW 0
Rated short-time withstand current Icw	kA 1.5
Rated operation power at AC-23, 400 V	kW 63
Switching power at 400 V	kW 0
Conditioned rated short-circuit current Iq	kA 0
Number of poles	4
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change-over contact	0
Motor drive optional	No
Motor drive integrated	No
Voltage release optional	No
Device construction	Built-in device fixed built-in technique
Suitable for floor mounting	Yes
Suitable for front mounting 4-hole	No
Suitable for front mounting centre	No
Suitable for distribution board installation	Yes
Suitable for intermediate mounting	Yes
Colour control element	Other
Type of control element	Short thumb-grip
Interlockable	No
Type of electrical connection of main circuit	Screw connection
Degree of protection (IP), front side	IP20
Degree of protection (NEMA)	Other

