

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

**Part no. DCM-63/4
1314006**

General specifications		
Product name		Eaton DCM Switch-disconnector
Part no.		DCM-63/4
EAN		8711426771673
Product Length/Depth		146 millimetre
Product height		74 millimetre
Product width		84 millimetre
Product weight		0.46 kilogram
Certifications		IEC/EN 60204 CE Lloyds IEC/EN 60947-3 VDE 0660 IEC/EN 60947 EAC KEMA RoHS
Product Tradename		DCM
Product Type		Switch-disconnector
Product Sub Type		None
Catalog Notes		1 padlock, # 5 mm Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions		
Features		Version as maintenance-/service switch Version as main switch
Fitted with:		Black rotary handle and drive shaft
Locking facility		Lockable in the 0 (Off) position
Number of poles		Four-pole
General information		
Actuator color		Black
Actuator type		Short thumb-grip
Connection type		Vertical
Degree of protection		NEMA Other
Degree of protection (front side)		IP20
Lifespan, mechanical		10,000 Operations
Mounting method		Surface mounting
Mounting position		As required
Overvoltage category		III
Pollution degree		3
Product Category		Main switch Switch-disconnector
Rated impulse withstand voltage (Uimp)		6000 V
Safety parameter (EN ISO 13849-1)		B10d values as per EN ISO 13849-1, table C.1
Suitable for		Distribution board installation Ground mounting
Climatic environmental conditions		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		55 °C
Ambient storage temperature - min		-30 °C
Ambient storage temperature - max		80 °C
Terminal capacities		
Terminal capacity		2.5 - 16 mm ² , solid 1.5 - 25 mm ² , flexible

Stripping length (main cable)		14 mm
Electrical rating		
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)		504 A
Rated insulation voltage (Ui)		690 V
Rated operational current (Ie) at AC-21, 400 V, 415 V		63 A
Rated operational current (Ie) at AC-22, 380 V, 400 V, 415 V		63 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V		63 A
Rated operational power at AC-23A, 400 V, 50 Hz		63 kW
Rated operational power at AC-3, 380/400 V, 50 Hz		0 kW
Rated operational voltage (Ue) at AC - max		415 V
Rated uninterrupted current (Iu)		63 A
Uninterrupted current		Rated uninterrupted current Iu is specified for max. cross-section.
Short-circuit rating		
Breaking current		7 kA
Let-through energy		Max. 12 kA ² s
Rated conditional short-circuit current (Iq)		0 kA
Rated short-circuit making capacity (Icm)		1.4 kA _{eff}
Rated short-time withstand current (Icw)		1.5 kA 1,5 kA, Contacts, 1 second
Short-circuit protection rating		50, Fuse, Contacts
Contacts		
Number of auxiliary contacts (change-over contacts)		0
Number of auxiliary contacts (normally closed contacts)		0
Number of auxiliary contacts (normally open contacts)		0
Design verification		
Equipment heat dissipation, current-dependent P _{vid}		1.3 W
Heat dissipation capacity P _{diss}		0 W
Heat dissipation per pole, current-dependent P _{vid}		3.9 W
Rated operational current for specified heat dissipation (I _n)		63 A
Static heat dissipation, non-current-dependent P _{vs}		0 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0

Low-voltage industrial components (EG000017) / Switch disconnecter (low voltage) (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ec@ss13-27-37-14-03 [AKF060018])			
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			No
Colour control element			Black
Type of control element			Short thumb-grip
Interlockable			No
Type of electrical connection of main circuit			Screw connection
With pre-assembled cabling			No
Degree of protection (IP), front side			IP20
Degree of protection (NEMA)			Other
Width		mm	84
Height		mm	74
Depth		mm	146
Width in number of modular spacings			4