

Switch-disconnector, DMM, 40 A, 4 pole, With black rotary handle and drive shaft, Vertical connection

Part no. **DMM-40/4**

1314057

EL Number
(Norway)

4309094

General specifications	
Product name	Eaton DMM Switch-disconnector
Part no.	DMM-40/4
EAN	8711426325708
Product Length/Depth	146 millimetre
Product height	74 millimetre
Product width	84 millimetre
Product weight	0.63 kilogram
Certifications	IEC/EN 60947-3 RoHS KEMA EAC VDE 0660 IEC/EN 60204 IEC/EN 60947 Lloyds CE
Product Tradename	DMM
Product Type	Switch-disconnector
Product Sub Type	None
Catalog Notes	1 padlock, # 5 mm Rated Short-time Withstand Current (I _{cw}) for a time of 1 second
Features & Functions	
Features	Version as main switch Version as maintenance-/service switch
Fitted with:	Black rotary handle and drive shaft
Locking facility	Lockable in the 0 (Off) position
Number of poles	Four-pole
General information	
Accessories	Auxiliary contact fitted by user.
Actuator color	Black
Actuator type	Short thumb-grip
Connection type	Vertical
Degree of protection	NEMA Other
Degree of protection (front side)	IP20
Lifespan, mechanical	8,500 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 (U _{imp})	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		1.5 - 25 mm ² , flexible with ferrules to DIN 46228 2.5 - 16 mm ² , solid
Stripping length (main cable)		14 mm
Electrical rating		
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)		320 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)		264 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)		200 A
Rated insulation voltage (Ui)		1000 V
Rated operational current (Ie) at AC-21, 400 V, 415 V		40 A
Rated operational current (Ie) at AC-21, 500 V		40 A
Rated operational current (Ie) at AC-21, 690 V		40 A
Rated operational current (Ie) at AC-22, 380 V, 400 V, 415 V		40 A
Rated operational current (Ie) at AC-22, 500 V		40 A
Rated operational current (Ie) at AC-22, 690 V		40 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V		40 A
Rated operational current (Ie) at AC-23A, 500 V		33 A
Rated operational current (Ie) at AC-23A, 690 V		25 A
Rated operational power at AC-23A, 400 V, 50 Hz		22 kW
Rated operational power at AC-23A, 500 V, 50 Hz		22 kW
Rated operational power at AC-23A, 690 V, 50 Hz		22 kW
Rated operational power at AC-3, 380/400 V, 50 Hz		0 kW
Rated operational voltage (Ue) at AC - max		690 V
Rated uninterrupted current (Iu)		40 A
Uninterrupted current		Rated uninterrupted current Iu is specified for max. cross-section.
Short-circuit rating		
Breaking current		9.6 kA (at In = 50) 9.7 kA (at In = 80)
Let-through energy		Max. 10 kA ² s (at In = 50) Max. 44 kA ² s (at In = 80)
Rated conditional short-circuit current (Iq)		100 kA 50 kA at In = 80
Rated short-time withstand current (Icw)		1 kA 1 kA, Contacts, 1 second
Short-circuit protection rating		80/50, 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 Pvid		0.5 W
Heat dissipation capacity Pdis		0 W
Heat dissipation per pole, current-dependent Pvid		4 W
Rated operational current for specified heat dissipation (In)		40 A
Static heat dissipation, non-current-dependent Pvs		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	690
Rated operating voltage	V	690 - 690
Rated permanent current Iu	A	40
Rated permanent current at AC-23, 400 V	A	40
Rated permanent current at AC-21, 400 V	A	40
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current Icw	kA	1
Rated operation power at AC-23, 400 V	kW	22
Switching power at 400 V	kW	0
Conditioned rated short-circuit current Iq	kA	100
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