

Switch-disconnector, DMV, 250 A, 3 pole, STOP function, with grey knob, With metal shaft for a control panel depth of 400 mm, 9 mm connection hole



**Part no. DMV-250/3/M4/P-G
6099271**

General specifications		
Product name		Eaton DMV Switch-disconnector
Part no.		DMV-250/3/M4/P-G
EAN		8711426109049
Product Length/Depth		300 millimetre
Product height		150 millimetre
Product width		150 millimetre
Product weight		1.6 kilogram
Certifications		RoHS IEC/EN 60204 CE IEC/EN 60947-3 KEMA VDE 0660 Lloyds IEC/EN 60947 EAC
Product Tradename		DMV
Product Type		Switch-disconnector
Product Sub Type		None
Catalog Notes		Current for a time of 0.3 seconds
Features & Functions		
Features		Version as main switch
Fitted with:		Gray knob Metal shaft for a control panel depth of 400 mm
Functions		Interlockable STOP function
Locking facility		Lockable in the 0 (Off) position
Locking mechanism		Padlocking feature SVC
Number of poles		Three-pole
General information		
Accessories		Auxiliary contact fitted by user.
Actuator color		Gray
Actuator type		Short thumb-grip
Connection type		9 mm connection hole
Degree of protection		NEMA 12
Degree of protection (front side)		IP65
Lifespan, mechanical		10,000 Operations
Mounting method		Rear mounting
Mounting position		As required
Overvoltage category		III
Pollution degree		3
Product Category		Main switch Switch-disconnector
Rated impulse withstand voltage (Uimp)		8000 V
Safety parameter (EN ISO 13849-1)		B10d values as per EN ISO 13849-1, table C.1
Suitable for		Intermediate mounting Ground mounting
Switching angle		90 °
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		120 mm ² , Flat conductor connection with busbars
Screw size		M8 x 20, Terminal screw
Tightening torque		14 Nm, Screw terminals
Electrical rating		
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)		2000 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)		1760 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)		1120 A
Rated insulation voltage (Ui)		1000 V
Rated operational current (Ie) at AC-21, 400 V, 415 V		250 A
Rated operational current (Ie) at AC-21, 500 V		250 A
Rated operational current (Ie) at AC-21, 690 V		250 A
Rated operational current (Ie) at AC-22, 380 V, 400 V, 415 V		250 A
Rated operational current (Ie) at AC-22, 500 V		250 A
Rated operational current (Ie) at AC-22, 690 V		250 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V		250 A
Rated operational current (Ie) at AC-23A, 500 V		220 A
Rated operational current (Ie) at AC-23A, 690 V		140 A
Rated operational power at AC-23A, 400 V, 50 Hz		250 kW
Rated operational power at AC-23A, 500 V, 50 Hz		160 kW
Rated operational power at AC-23A, 690 V, 50 Hz		132 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)		250 A
Uninterrupted current		Rated uninterrupted current Iu is specified for max. cross-section.
Short-circuit rating		
Breaking current		40 kA (at In = 500) 33 kA (at In = 250)
Let-through energy		Max. 1700 kA ² s (at In = 500) Max. 380 kA ² s (at In = 250)
Rated conditional short-circuit current (Iq)		50 kA 100 kA at In = 250
Rated short-time withstand current (Icw)		12 kA, Contacts, 1 second 12 kA
Short-circuit protection rating		500/250, 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		4.5 W
Heat dissipation capacity Pdis		0 W
Heat dissipation per pole, current-dependent Pvid		3.75 W
Rated operational current for specified heat dissipation (In)		250 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 8.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecI@ss10.0.1-27-37-14-03 [AKF060013])		
Version as main switch		Yes
Version as maintenance-/service switch		No
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	250
Rated permanent current at AC-23, 400 V	A	250
Rated permanent current at AC-21, 400 V	A	250
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current Icw	kA	12
Rated operation power at AC-23, 400 V	kW	250
Switching power at 400 V	kW	250
Conditioned rated short-circuit current Iq	kA	50
Number of poles		3
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		No
Suitable for intermediate mounting		Yes
Colour control element		Grey
Type of control element		Short thumb-grip
Interlockable		Yes
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12

