DATASHEET - DMV-400/3/M4/P-G

Switch-disconnector, DMV, 400 A, 3 pole, STOP function, with grey knob, With metal shaft for a control panel depth of 400 mm, 11 mm connection bore

Powering Business Worldwide

Part no. DMV-400/3/M4/P-G
6099272

General specifications	
Product name	Eaton DMV Switch-disconnector
Part no.	DMV-400/3/M4/P-G
EAN	8711426109063
Product Length/Depth	300 millimetre
Product height	150 millimetre
Product width	150 millimetre
Product weight	1.7 kilogram
Certifications	RoHS IEC/EN 60947 KEMA IEC/EN 60204 Lloyds EAC CE IEC/EN 60947-3 VDE 0660
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
Number of poles	Three-pole
General information	
Accessories	Auxiliary contact fitted by user.
Actuator color	Gray
Actuator type	Short thumb-grip
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	Ground mounting Intermediate 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	240 mm^2, Flat conductor connection with busbars

Screw size	M10 x 20, Terminal screw
Tightening torque	28 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	2664 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	2032 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	400 A
Rated operational current (Ie) at AC-21, 500 V	400 A
Rated operational current (Ie) at AC-21, 690 V	400 A
Rated operational current (Ie) at AC-22, 380 V, 400 V, 415 V	400 A
Rated operational current (Ie) at AC-22, 500 V	400 A
Rated operational current (Ie) at AC-22, 690 V	315 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	333 A
Rated operational current (Ie) at AC-23A, 500 V	254 A
Rated operational current (Ie) at AC-23A, 690 V	140 A
Rated operational power at AC-23A, 400 V, 50 Hz	400 kW
Rated operational power at AC-23A, 500 V, 50 Hz	180 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)	400 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. 380 kA^2s (at In = 250) Max. 1700 kA^2s (at In = 500)
Rated conditional short-circuit current (Iq)	100 kA at In = 250 50 kA
Rated short-time withstand current (Icw)	12 kA 12 kA, Contacts, 1 second
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	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	3.75 W
Rated operational current for specified heat dissipation (In)	400 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 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			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	400
Rated permanent current at AC-23, 400 V		A	333
Rated permanent current at AC-21, 400 V		A	400
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	400
Switching power at 400 V		kW	400
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