DATASHEET - DMV-400N/3

Switch-disconnector, DMV, 400 A, 3 pole, Stop Function optional, Without rotary handle and drive shaft



Part no.	DMV-400N/3 1814411	r owening be
General specifications		
Product name		Eaton DMV Switch-disconnector
Part no.		DMV-400N/3
EAN		8711426213388
Product Length/Depth		206 millimetre
Product height		75 millimetre
Product width		185 millimetre
Product weight		1.788 kilogram
Certifications Product Tradename		IEC/EN 60204 EAC CE IEC/EN 60947-3 IEC/EN 60947 VDE 0660 Lloyds KEMA RoHS DMV
		Switch-disconnector
Product Type Product Sub Type		None
Catalog Notes		Current for a time of 0.3 seconds visible contacts Without rotary handle and drive shaft
Features & Functions		
Features		Version as emergency stop installation
Functions		Optional Stop Function
Number of poles		Three-pole
General information		
Accessories		Auxiliary contact fitted by user. Connection materials included with supplied equipment.
Actuator color		Other
Actuator type		Other
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)		8000 V
Safety parameter (EN ISO 13849-1)		B10d values as per EN ISO 13849-1, table C.1
Suitable for		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		30 °C
Terminal capacities		
Terminal capacity		240 mm², 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	180 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 (lu)	400 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Breaking current	33 kA (at ln = 250) 40 kA (at ln = 500)
Let-through energy	Max. 380 kA²s (at ln = 250) Max. 1700 kA²s (at ln = 500)
Rated conditional short-circuit current (Iq)	50 kA at In = 500 100 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	11.4 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	9 W
Rated operational current for specified heat dissipation (In)	400 A
Static heat dissipation, non-current-dependent Pvs	
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.
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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 disconnector (low voltage) (EC000216)

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Area description work a AC-23, 400 V Image: Area description of AGO AC	Rated permanent current at AC-21, 400 V	А	400		
Rete operation power at A2-33, 40V Image: Rete operation of the sector of	Rated operation power at AC-3, 400 V	kW	0		
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Widthmm185Heightmm75Depthmm206	Degree of protection (IP), front side		IP20		
Heightnm5Depthnm26	Degree of protection (NEMA)		Other		
Depth mm 206	Width	mm	185		
	Height	mm	75		
Width in number of modular spacings	Depth	mm	206		
	Width in number of modular spacings				