

**Switch-disconnector, DMVS, 160 A, 4 pole, Stop Function optional,
Without rotary handle and drive shaft, 9 mm connection hole**



**Part no. DMVS-160N/4
1814188**

General specifications		
Product name		Eaton DMVS Switch-disconnector
Part no.		DMVS-160N/4
EAN		8711426847378
Product Length/Depth		206 millimetre
Product height		75 millimetre
Product width		185 millimetre
Product weight		1.72 kilogram
Certifications		Lloyds IEC/EN 60204 IEC/EN 60947 EAC KEMA VDE 0660 CE IEC/EN 60947-3 RoHS
Product Tradename		DMVS
Product Type		Switch-disconnector
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		Four-pole
General information		
Accessories		Auxiliary contact fitted by user. Connection materials included with supplied equipment.
Actuator color		Other
Actuator type		Other
Connection type		9 mm connection hole
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
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)	1280 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	1248 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	160 A
Rated operational current (Ie) at AC-21, 500 V	160 A
Rated operational current (Ie) at AC-21, 690 V	160 A
Rated operational current (Ie) at AC-22, 380 V, 400 V, 415 V	160 A
Rated operational current (Ie) at AC-22, 500 V	160 A
Rated operational current (Ie) at AC-22, 690 V	160 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	160 A
Rated operational current (Ie) at AC-23A, 500 V	156 A
Rated operational current (Ie) at AC-23A, 690 V	140 A
Rated operational power at AC-23A, 400 V, 50 Hz	90 kW
Rated operational power at AC-23A, 500 V, 50 Hz	110 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)	160 A
Uninterrupted current	Rated uninterrupted current Iu is specified for max. cross-section.
Short-circuit rating	
Breaking current	33 kA (at In = 250) 40 kA (at In = 500)
Let-through energy	Max. 380 kA ² s (at In = 250) Max. 1700 kA ² s (at In = 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	1.8 W
Heat dissipation capacity Pdis	0 W
Heat dissipation per pole, current-dependent Pvid	2.3 W
Rated operational current for specified heat dissipation (In)	160 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 disconnector (low voltage) (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])			
Version as main switch			No
Version as maintenance-/service switch			No
Version as safety switch			No
Version as emergency stop installation			Yes
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		160
Rated permanent current at AC-23, 400 V	A		160
Rated permanent current at AC-21, 400 V	A		160
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		90
Switching power at 400 V	kW		90
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			Complete device in housing
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			No
Colour control element			Other
Type of control element			Other
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		185
Height	mm		75
Depth	mm		206

