## DATASHEET - DMV-160N/3+TC

Switch-disconnector, DMV, 160 A, 3 pole, Stop Function optional, Without rotary handle and drive shaft, Tunnel terminal



Part no.

DMV-160N/3+TC 1814175

General specifications	
Product name	Eaton DMV Switch-disconnector
Part no.	DMV-160N/3+TC
EAN	8711426848597
Product Length/Depth	180 millimetre
Product height	80 millimetre
Product width	210 millimetre
Product weight	0.91 kilogram
Certifications	EAC IEC/EN 60947 RoHS IEC/EN 60947-3 CE Lloyds IEC/EN 60204 VDE 0660 KEMA
Product Tradename	DMV
Product Type	Switch-disconnector
Product Sub Type	None
Catalog Notes	Current for a time of 0.2 seconds visible contacts Without rotary handle and drive shaft
Features & Functions	
Features	Version as main switch Version as maintenance-/service switch 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
Connection type	Tunnel terminal
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	
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 Distribution board installation
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°08

Terminal capacities	
Terminal capacity	6 - 70 mm², flexible with ferrules to DIN 46228
Tightening torque	7 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	1232 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	848 A
Rated insulation voltage (Ui)	1000 V
Rated operational current (le) 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	125 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	125 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	154 A
Rated operational current (Ie) at AC-23A, 500 V	106 A
Rated operational power at AC-23A, 400 V, 50 Hz	90 kW
Rated operational power at AC-23A, 500 V, 50 Hz	75 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 lu is specified for max. cross-section.
Short-circuit rating	
Breaking current	14.5 kA (at ln = 100) 50 kA (at ln = 160)
Let-through energy	Max. 600 kA <sup>2</sup> s (at In = 160) Max. 67 kA <sup>2</sup> s (at In = 100)
Rated conditional short-circuit current (Iq)	50 kA at ln = 160 100 kA
Rated short-time withstand current (Icw)	8 kA 8 kA, Contacts, 1 second
Short-circuit protection rating	160/100, 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	3.9 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.
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10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
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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 and a standard for the standard standard and the standard standard standard standard standard standard		
Electric engineering, automation, process control engineering / Low-voltage switt [AKF060018])	ch technology / Uπ-load	switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-0
Version as main switch		Yes
Version as maintenance-/service switch		Yes
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 lu	А	160
Rated permanent current at AC-23, 400 V	А	154
Rated permanent current at AC-21, 400 V	А	160
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current Icw	kA	8
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		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
Notor drive optional		No
Motor drive integrated		No
/oltage 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		Yes
Suitable for intermediate mounting		No
Colour control element		Other
Type of control element		Other
nterlockable		No
Type of electrical connection of main circuit		Screw connection
Nith pre-assembled cabling		No
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other
Width	mm	210
Height	mm	80
Depth	mm	180
Width in number of modular spacings		