## DATASHEET - DMV-160N/3

Switch-disconnector, DMV, 160 A, 3 pole, Stop Function optional, Without rotary handle and drive shaft, Screw terminal, drilling dimension 6,5 mm



Part no. DMV-160N/3 1814178

Preduct name  Exat DMV Switch-disconnector    Fork  DMV 160/3    Preduct Length Orgh  IM 160/3	General specifications	
Print a.  Privat. Length (Parkall (Pa		Eaton DMV Switch-disconnector
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Product Spe      Switch-disconnector        Product Sub Type      None        Catalog Notes      Carrent for a time of 2.2 econds valide contracts        Features & Functions      Carrent for a time of 2.2 econds valide contracts        Features & Functions      Version as mains switch        Functions      Version as mains switch        Functions      Optional Stop Function        Number of poles      Optional Stop Function        Accessories      Auxiliary contact find by user: connection materials included with supplied equipment.        Actuator type      Other        Actuator type      Other        Degree of protection from side)      IPP        Degree of protection from side)      IPP        Undergree      Surface mourting surface        Product Stap y      IIII        Product Stap y      IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		CE RoHS IEC/EN 60947 IEC/EN 60947-3 KEMA IEC/EN 60204 EAC
Product Shype    None      Catalog Netes    Current for a men of 25 seconds symble      Features & Functions    Features & Functions      Features & Functions    Version as emergency stop installation      Features & Functions    Version as emergency stop installation      Functions    Optional Sop Function      Number of poles    Three-pole      General information    Mailer context field by user:      Accessories    Other      Accessories    Other      Connection type    Defered      Degree of protection    Mailer context field by user:      Restards type    Standard with supplied equipment.      Mounding protection    Other      Degree of protection from side)    Defered      Degree of protection from side)    None NetA Other      Degree of protection from side)    None Standard Without and with supplied equipment.      Mounting protein    Standard Without and with supplied equipment.      Mounting protein    Standard Without and Withou	Product Tradename	DMV
Catalog Notes    Current for a time of 0.2 seconds withile contracts withile		Switch-disconnector
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Version as mainbanch.'service switch        Functions      Optional Stop Function        Number of poles      Three-pole        General information      Axiliary content fitted by user. Connection materials included witsupplied equipment.        Accessories      Axiliary content fitted by user. Connection materials included witsupplied equipment.        Actuator color      Axiliary color materials included witsupplied equipment.        Actuator type      Other        Connection materials included witsupplied equipment.      Other        Actuator type      Other        Connection materials included witsupplied equipment.      Other        Actuator type      Other        Connection materials included witsupplied equipment.      Other        Actuator type      Other        Degree of protection      NEMA Other        Budge of protection (front side)      Internation        Mounting method      Surface mounting        Mounting method      Mainwitch        Mounting method      Mainwitch        Product Category      Internation        Statel inputse withstand voltage (Uimp)      Biod values as par EN ISO 13849-1, table C.1        Statel inputse withstand voltage (Uimp)      Forod </td <td>Features &amp; Functions</td> <td></td>	Features & Functions	
Number of poles      Inree-pole        General information      Infree-pole        Accessories      Auxiliary contact fitted by user. Connection materials included with supplied equipment.        Actuator color      Auxiliary contact fitted by user. Connection materials included with supplied equipment.        Actuator type      Other        Connection fype      Serve terminal, drilling dimension 6,5 mm        Degree of protection (front side)      IMA Other        Degree of protection (front side)      IMA Other        Idespan, mechanical      NUMD Operations        Mounting position      Surface mounting        Nounting position      Mines switch        Product Category      Mines switch        Rated impulse withstand voltage (Uimp)      Mines spreter        Safety parameter (EN ISO 13849-1)      Mounting        Suitable for      Source FIN ISO 13849-1, table C.1        Ambient operating temperature - min      Source        Ambient operating temperature - min      Source        Ambient operating temperature - min      Source	Features	Version as main switch
General information    Accessories      Accessories    Accessories      Accessories    Accessories      Accessories    Connection materials included with supplied equipment.      Actuator color    Other      Actuator type    Other      Connection fype    Serve terminal, drilling dimension 6,5 mm      Degree of protection (front side)    MAD Other      Degree of protection (front side)    MOD Operations      Mounting method    Surface mounting      Mounting position    As required      Overvoltage category    II      Pollution degree    Surface mounting      Safety parameter (EN ISO 13849-1)    Boot overvoltage as per EN ISO 13849-1, table C.1      Suitable for    Sourd Category      Suitable for    Sourd Category      Ambient operating temperature - min    As four overvoltage as per EN ISO 13849-1, table C.1      Ambient operating temperature - min    Sourie - Source overvoltage overvo	Functions	Optional Stop Function
Accessories    Accessories    Auxiliary contact fitted by user. Connection materials included with supplied equipment.      Actuator type    Other      Actuator type    Other      Connection type    Screw terminal, drilling dimension 6,5 mm      Degree of protection    MEMA Other      Degree of protection (front side)    MEMA Other      Idregan, mechanical    Mexima      Mounting position    Surface mounting      Overvoltage category    III      Pollution degree    Sonov      Rated inpulse withstand voltage (Uimp)    Main switch Switch-disconnector      Suitable for    Sonov      Suitable for    Sonov      Ambient operature - min    Strew for an and mounting for an an an and mounting for an an an an and mounting for an	Number of poles	Three-pole
Actuator color      Connection materials included with supplied equipment.        Actuator type      Other        Connection type      Other        Connection type      Screw terminal, drilling dimension 6,5 mm        Degree of protection      MEMA Other        Degree of protection (front side)      IMMA Other        Idespan, mechanical      Mounting method        Mounting position      Mounting position        Overvoltage category      III        Pollution degree      Score X        Pollution degree      Score X        Stabel for      Score X        Suitable for      Score X        Arbient operating temperature - min      Arbient operating temperature - min        Arbient storage temperature - min      Score X	General information	
Actuator type    Uther      Connection type    Screw terminal, drilling dimension 6,5 mm      Degree of protection    NEMA Other      Degree of protection (front side)    IP20      Idrespan, mechanical    MOUD Operations      Mounting method    Surface mounting      Mounting nostion    Surface mounting      Overvoltage category    III      Pollution degree    As required      Product Category    8000 V      Stateb for    Stored mounting      Suitable for    Stored mounting      Suitable for    Stored mounting      Ambient operating temperature - min    -25 °C      Ambient operating temperature - min    -25 °C      Ambient storage temperature - min    -25 °C	Accessories	Auxiliary contact fitted by user. Connection materials included with supplied equipment.
Connection type      Screw terminal, drilling dimension 6,5 mm        Degree of protection      NEMA Other        Degree of protection (front side)      IP20        Idespan, mechanical      0,000 Operations        Mounting method      Surface mounting        Mounting position      Surface mounting        Overvoltage category      III        Pollution degree      3        Product Category      Main switch        Safety parameter (EN ISO 13849-1)      6000 V        Suitable for      Solon V        Content control tomestion      Solon V        Ambient operating temperature - min      Solon S        Ambient operating temperature - min      Solon S        Ambient operating temperature - min      Solon S	Actuator color	Other
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Degree of protection (front side)    IP20      Lifespan, mechanical    0,000 Operations      Mounting method    Surface mounting      Mounting position    As required      Overvoltage category    III      Pollution degree    3      Product Category    Main switch      Rated impulse withstand voltage (Uimp)    8000 V      Safety parameter (EN ISO 13849-1)    B100 values as per EN ISO 13849-1, table C.1      Suitable for    Cond mounting Distribution board installation      Climatic environmental conditions    -25 °C      Ambient operating temperature - min    55 °C      Ambient storage temperature - min    Gord	Connection type	Screw terminal, drilling dimension 6,5 mm
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Mounting position    As required      Overvoltage category    III      Pollution degree    3      Product Category    Main switch switch-disconnector      Rated impulse withstand voltage (Uimp)    6000 V      Safety parameter (EN ISO 13849-1)    6000 V      Suitable for    Fold values as per EN ISO 13849-1, table C.1      Climatic environmental conditions    Four of the service	Lifespan, mechanical	10,000 Operations
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    Fround mounting Distribution board installation      Climatic environmental conditions    -25 °C      Ambient operating temperature - min    55 °C      Ambient storage temperature - min    -30 °C	Mounting method	Surface mounting
Pollution degree    3      Product Category    Main switch Switch-disconnector      Rated impulse withstand voltage (Uimp)    8000 V      Safety parameter (EN ISD 13849-1)    8000 V      Suitable for    B10d values as per EN ISD 13849-1, table C.1      Climatic environmental conditions    For our dimounting Distribution board installation      Ambient operating temperature - min    For O      Ambient operating temperature - min    For O      Ambient storage temperature - min    For O      Ambient storage temperature - min    For O	Mounting position	As required
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    Fround mounting Distribution board installation      Climatic environmental conditions    Fround mounting Distribution board installation      Ambient operating temperature - min    Fround mounting Distribution board installation      Ambient storage temperature - min    Fround mounting Distribution board installation	Overvoltage category	III
Rated impulse withstand voltage (Uimp)    Switch-disconnector      Safety parameter (EN ISO 13849-1)    8000 V      Suitable for    B10d values as per EN ISO 13849-1, table C.1      Climatic environmental conditions    Ground mounting Distribution board installation      Ambient operating temperature - min    -25 °C      Ambient storage temperature - min    55 °C      Ambient storage temperature - min    -30 °C	Pollution degree	3
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		Switch-disconnector
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Climatic environmental conditions  Distribution board installation    Ambient operating temperature - min  -25 °C    Ambient storage temperature - min  55 °C    Ambient storage temperature - min  -30 °C		B10d values as per EN ISO 13849-1, table C.1
Ambient operating temperature - min-25 °CAmbient operating temperature - max55 °CAmbient storage temperature - min30 °C	Suitable for	
Ambient operating temperature - max  55 °C    Ambient storage temperature - min  -30 °C	Climatic environmental conditions	
Ambient storage temperature - min -30 °C	Ambient operating temperature - min	-25 °C
	Ambient operating temperature - max	55 °C
Ambient storage temperature - max 80 °C	Ambient storage temperature - min	-30 °C
	Ambient storage temperature - max	0° 08

Terminal capacities	
Terminal capacity	75 mm <sup>2</sup> , Flat conductor connection with busbars
Screw size	M6 x 16, Terminal screw
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 (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	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 (lu)	160 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Breaking current	50 kA (at ln = 160) 14.5 kA (at ln = 100)
Let-through energy	Max. 600 kA²s (at In = 160) Max. 67 kA²s (at In = 100)
Rated conditional short-circuit current (Iq)	100 kA 50 kA at ln = 160
Rated short-time withstand current (Icw)	8 kA, Contacts, 1 second 8 kA
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.
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)

Low-voltage industrial components (Loodon // Switch disconnector flow voltage)	(20000210)	
Electric engineering, automation, process control engineering / Low-voltage switch [AKF060018])	technology / Off-load s	switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03
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 lcw	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
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		Yes
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	131
Height	mm	70
Depth	mm	168
Width in number of modular spacings		