

**Switch-disconnector, DMV, 2000 A, 3 pole, Stop Function optional,
Without rotary handle and drive shaft**
Part no. **DMV-2000N/3**
Catalog No. **1814065**

Delivery program

Product range		Switch-disconnector Main switch maintenance switch	
Part group reference		DMV	
Stop Function		optional	
		Without rotary handle and drive shaft	
Notes		visible contacts	
Information about equipment supplied		auxiliary contact fitted by user. including connection materials	
Number of poles		3 pole	
Auxiliary contacts			
	N/O	0	
	N/C	0	
			
Degree of Protection		IP00 IP20 with terminal cover	
Design		surface mounting	
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	750
Rated uninterrupted current	I _u	A	2000
Note on rated uninterrupted current I _u			Rated uninterrupted current I _u is specified for max. cross-section.

Technical data

General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204 Switch-disconnector according to IEC/EN 60947-3
Certifications			CE, RoHS, KEMA, EAC, Lloyds
Ambient temperature			
Operation	θ	°C	-25 - +55
Storage	θ	°C	-30 - +80
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U _{imp}	kV	12
Rated insulation voltage	U _i	V	1000
Mounting position			As required

Contacts

Mechanical variables			
Number of poles			3 pole
Auxiliary contacts			
	N/O	0	
	N/C	0	
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	I _u	A	2000
Note on rated uninterrupted current I _u			Rated uninterrupted current I _u is specified for max. cross-section.
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	50000
Note on rated short-time withstand current I _{cw}			Current for a time of 1 second

Heat dissipation per pole, current-dependent	P_{vid}	W	58.3
Switching capacity			
Rated breaking capacity $\cos \varphi$ to IEC 60947-3		A	
400/415 V		A	10000
500 V		A	7272
690 V		A	5040
Safe isolation to EN 61140			
Current heat loss per contact at I_e		W	44.75
Lifespan, mechanical	Operations		5000
AC			
AC-21A			
Rated operational current switch			
400 V 415 V	I_e	A	2000
500 V	I_e	A	2000
690 V	I_e	A	2000
AC-22A			
Rated operational current switch			
400 V 415 V	I_e	A	2000
500 V	I_e	A	2000
690 V	I_e	A	1600
AC-23A			
Rated operational current switch			
400 V 415 V	I_e	A	1250
500 V	I_e	A	909
690 V	I_e	A	630
Motor rating AC-23A, 50 - 60 Hz	P	kW	
400 V 415 V	P	kW	750
500 V	P	kW	630
690 V	P	kW	630

Terminal capacities

Flat conductor connection with busbars	mm ²	1500
Terminal screw		M12 x 50 (2 x)
Tightening torque for terminal screw	Nm	40

Technical safety parameters:

Notes		B10 _d values as per EN ISO 13849-1, table C1
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Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	2000
Heat dissipation per pole, current-dependent	P_{vid}	W	58.3
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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	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 Iu	A 2000
Rated permanent current at AC-23, 400 V	A 1250
Rated permanent current at AC-21, 400 V	A 2000
Rated operation power at AC-3, 400 V	kW 0
Rated short-time withstand current Icw	kA 50
Rated operation power at AC-23, 400 V	kW 750
Switching power at 400 V	kW 750
Conditioned rated short-circuit current Iq	kA 0
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

Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other