

Switch-disconnector, 3 pole, 630 A, Without rotary handle and drive shaft, surface mounting $\,$



Part no. DMV-630N/3 Article no. 1814442

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			
γ'		N/0	0
7		N/C	0
Degree of Protection			IP00 IP20 with terminal cover
Design			surface mounting
Contact sequence			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	375

Technical data

Rated uninterrupted current

General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, Switch-disconnector according to IEC/EN 60947-3
Certifications			CE, RoHs, KEMA, GOST-R, Lloyds
Ambient temperature			
Operation	8	°C	-25 - +55
Storage	8	°C	-30 - +80
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U_{imp}	kV	12
Rated insulation voltage	Ui	V	1000
Mounting position			As required
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Contacts			

Α

630

Mechanical variables

Number of poles			3 pole
Auxiliary contacts			
		N/0	0
		N/C	0
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	I _u	Α	630
Note on rated uninterrupted current !u			Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating			
fuse			1000/630
Rated conditional short-circuit current	Iq	kA	In = 1000: 50
	.4		In = 630: 100
Breaking current		kA	In = 1000: 70 In = 630: 65
max. let-through energy		kA ² s	In = 1000: 4200 In = 630: 3200
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	36000
Note on rated short-time withstand current lcw			Current for a time of 0.3 seconds
Switching capacity			
Rated breaking capacity cos φ to IEC 60947-3		Α	
400/415 V		Α	5040
500 V		Α	4600
690 V		Α	3496
Safe isolation to EN 61140			
Current heat loss per contact at I _e		W	17.5
Lifespan, mechanical	Operations		5000
AC			
AC-21A			
Rated operational current switch			
400 V 415 V	I _e	Α	630
500 V	I _e	Α	630
690 V	I _e	А	630
AC-22A Rated operational current switch			
400 V 415 V		^	630
	l _e	A	
500 V	I _e	Α	630
690 V	I _e	Α	630
AC-23A			
Rated operational current switch			
400 V 415 V	I _e	Α	630
500 V	l _e	Α	575
690 V	I _e	Α	437
Motor rating AC-23A, 50 - 60 Hz	P	kW	
400 V 415 V	P	kW	375
500 V	P	kW	425
690 V	P	kW	425
Terminal capacities			
Flat conductor connection with busbars		mm^2	400
Terminal screw			M10 x 30
Max. tightening torque		Nm	20
Technical safety parameters:			

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	630

Heat dissipation per pole, current-dependent	P_{vid}	W	17.5
Equipment heat dissipation, current-dependent	P _{vid}	W	0
		W	
Static heat dissipation, non-current-dependent	P _{vs}		
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 switch gear must be observed. $\label{eq:specification}$
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 6.0

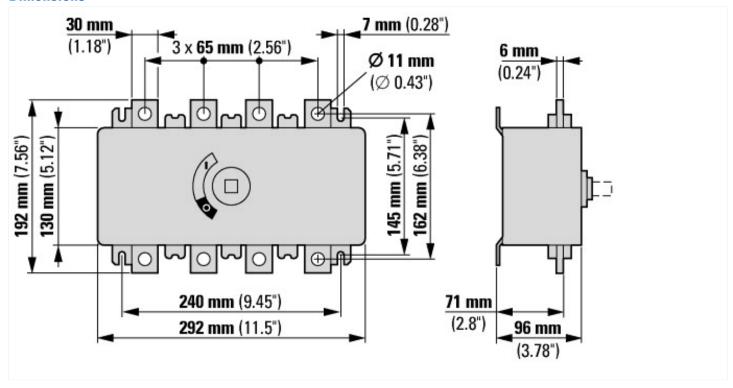
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03 [AKF060010])

p and decertory		
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
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	А	630
Rated permanent current at AC-21, 400 V	Α	630
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current lcw	kA	36
Rated operation power at AC-23, 400 V	kW	375
Switching power at 400 V	kW	375
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 ground mounting	Yes
Suitable for front mounting 4-hole	No
Suitable for front mounting center	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	No
Colour control element	-
Type of control element	-
Interlockable	No
Type of electrical connection of main circuit	Screw connection
Degree of protection (IP), front side	IP20

Dimensions



Additional product information (links)

IL008008Z Switch-disconnectors

IL008008Z Switch-disconnectors ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL008008ZU2016_11.pdf