

Switch-disconnector, 3 pole, 160 A, Without rotary handle and drive shaft, surface mounting, 9 mm connection hole



Part no. DMVS-160N/3 Article no. 1814186

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				
\ ¹		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 0	
Motor rating AC-23A, 50 - 60 Hz				
400 V	P	kW	90	
Rated uninterrupted current	I _u	Α	160	
Connection technique			9 mm connection hole	

Technical data

General

		IEC/EN 60947, VDE 0660, IEC/EN 60204, Switch-disconnector according to IEC/EN 60947-3
		CE, RoHs, KEMA, GOST-R, Lloyds
θ	°C	-25 - +55
θ	°C	-30 - +80
		III/3
U_{imp}	kV	8
Ui	V	1000
		As required
		Finger and back-of-hand proof
	9 U _{imp}	8 °C

Contacts

Contacts			
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	160
Note on rated uninterrupted current !u	ű		Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating			
fuse			500/250
Rated conditional short-circuit current	la	kA	In = 500: 50
nateu conuntonal Short-chicuit current	Iq	KA	In = 500. 50 In = 250: 100
Breaking current		kA	In = 500: 40 In = 250: 33
max. let-through energy		kA²s	In = 500: 1700 In = 250: 380
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	12000
Note on rated short-time withstand current lcw			Current for a time of 0.3 seconds
Switching capacity			
Rated breaking capacity $\cos \phi$ to IEC 60947-3		Α	
400/415 V		Α	1280
500 V		Α	1248
690 V		Α	1120
Safe isolation to EN 61140			
Current heat loss per contact at I _e		W	2.3
Lifespan, mechanical	Operations		10000
AC			
AC-21A			
Rated operational current switch			
400 V 415 V	I _e	Α	160
500 V	I _e	A	160
690 V	I _e	A	160
AC-22A	C		
Rated operational current switch			
400 V 415 V	I _e	A	160
500 V			
	l _e	A	160
690 V	l _e	Α	160
AC-23A			
Rated operational current switch			
400 V 415 V	le	Α	160
500 V	l _e	Α	156
690 V	l _e	Α	140
Motor rating AC-23A, 50 - 60 Hz	P	kW	
400 V 415 V	P	kW	90
500 V	Р	kW	110
690 V	P	kW	132
Terminal capacities			
Flat conductor connection with busbars		mm ²	120
Terminal screw			M8 x 20
Max. tightening torque		Nm	14
Technical safety parameters:			
Notes			B10 _d values as per EN ISO 13849-1, table C1

D	esian	verification	as	per	IEC	/EN	61439	9
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Technical data for design verification

Rated operational current for specified heat dissipation	In	Α	160
Heat dissipation per pole, current-dependent	P _{vid}	W	2.3
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 switch gear must be observed. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

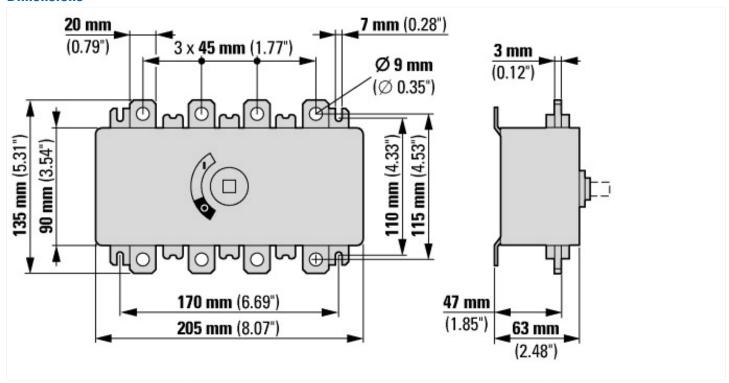
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

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])

[ANTU0UU1U])		
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	Α	160
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	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	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