

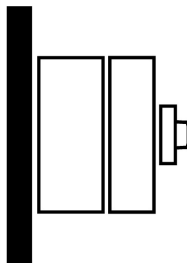
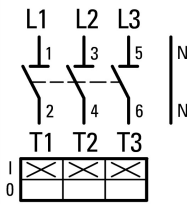


Switch-disconnector, DCM, 40 A, 3P + N (solid), Stop Function optional,
Without rotary handle and drive shaft, Horizontal Connection



Part no. DCM-40/1-SK+HC
Catalog No. 1314104

Delivery program

Product range			Switch-disconnector Main switch maintenance switch
Part group reference			DCM
Stop Function			optional
			Without rotary handle and drive shaft
Number of poles			3P + N (solid)
Auxiliary contacts			
		N/O	0
		N/C	0
Degree of Protection			IP20
Design			surface mounting
			
Contact sequence			
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	20
Rated uninterrupted current	I_u	A	40
Note on rated uninterrupted current I_u			Rated uninterrupted current I_u is specified for max. cross-section.
Connection technique			Horizontal Connection

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	6
Rated insulation voltage	U_i	V	690
Mounting position			As required

Contacts

Mechanical variables			
Number of poles			3P + N (solid)
Auxiliary contacts			
		N/O	0
		N/C	0
Electrical characteristics			
Rated operational voltage	U _e	V AC	415
Rated uninterrupted current	I _u	A	40
Note on rated uninterrupted current I _u			Rated uninterrupted current I _u is specified for max. cross-section.
Short-circuit rating			
fuse			50
Rated conditional short-circuit current	I _q	kA	50
Breaking current		kA	7
max. let-through energy		kA ² s	12
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	1000
Note on rated short-time withstand current I _{cw}			Current for a time of 1 second
Rated short-circuit making capacity	I _{cm}	kA _{eff}	2.2
Heat dissipation per pole, current-dependent	P _{vid}	W	3

Switching capacity

Rated breaking capacity cos φ to IEC 60947-3		A	
400/415 V		A	320
Safe isolation to EN 61140			
Current heat loss per contact at I _g		W	3
Lifespan, mechanical	Operations		10000
AC			
AC-21A			
Rated operational current switch			
400 V 415 V	I _e	A	40
AC-22A			
Rated operational current switch			
400 V 415 V	I _e	A	40
AC-23A			
Rated operational current switch			
400 V 415 V	I _e	A	40
Motor rating AC-23A, 50 - 60 Hz	P	kW	
400 V 415 V	P	kW	20

Terminal capacities

Solid		mm ²	2.5 - 16
Flexible with ferrules to DIN 46228		mm ²	
flexible		mm ²	1.5 - 25
Stripping length		mm	14
Tightening torque for terminal screw		Nm	2

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	40
Heat dissipation per pole, current-dependent	P _{vid}	W	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

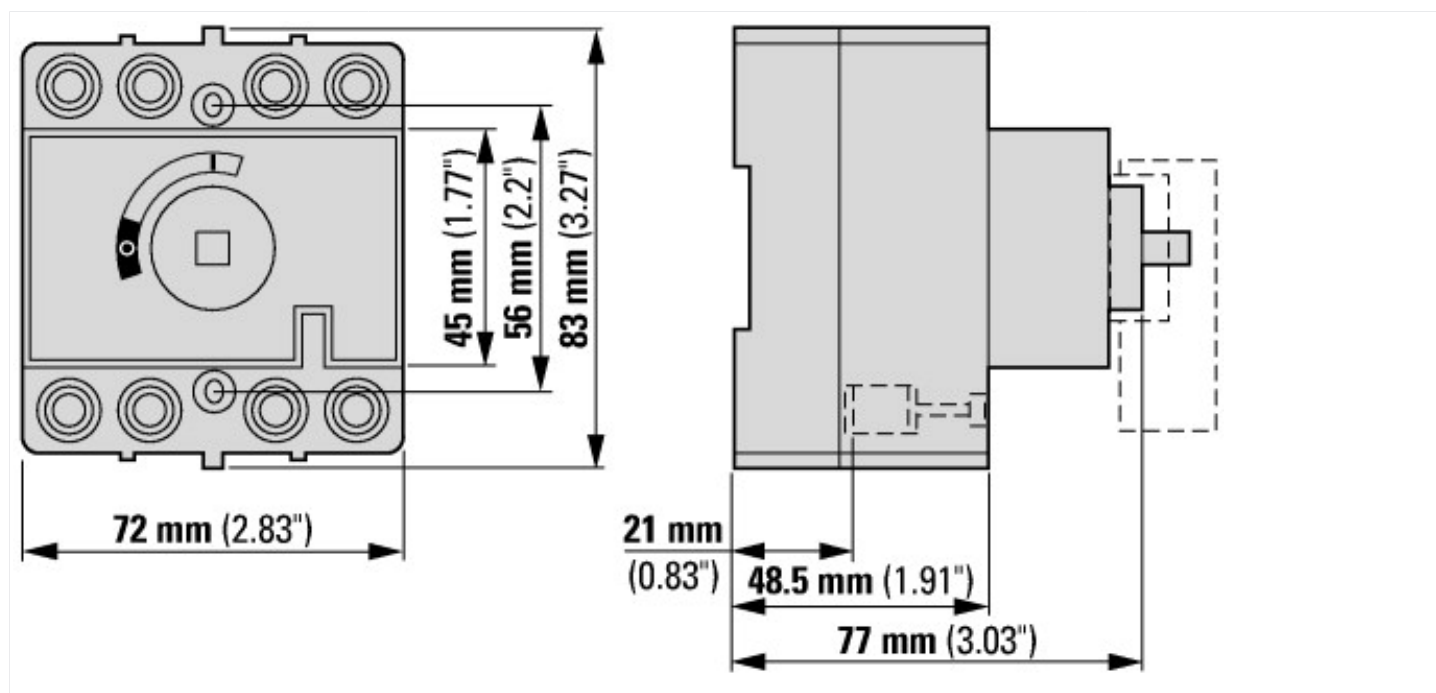
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 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 7.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecI@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			No
Version as reversing switch			No
Number of switches			1
Max. rated operation voltage Ue AC		V	415
Rated operating voltage		V	415 - 415
Rated permanent current Iu		A	40
Rated permanent current at AC-23, 400 V		A	40
Rated permanent current at AC-21, 400 V		A	40
Rated operation power at AC-3, 400 V		kW	0
Rated short-time withstand current Icw		kA	1
Rated operation power at AC-23, 400 V		kW	0
Switching power at 400 V		kW	20
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		Built-in device fixed built-in technique
Suitable for ground 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

Dimensions



Assets (links)

Declaration of CE Conformity

00003056

Instruction Leaflets

IL008025ZU2018_05

Additional product information (links)

IL008025ZU Switch-disconnector DCM, DMM	
IL008025ZU Switch-disconnector DCM, DMM	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL008025ZU2018_12.pdf