



Switch-disconnector, DMM, 80 A, 3P + N (solid), With black rotary handle and drive shaft, Vertical connection



Part no. **DMM-80/1**
 Catalog No. **199969**

Delivery program

Product range			Switch-disconnector Main switch maintenance switch
Part group reference			DMM With black rotary handle and drive shaft
Information about equipment supplied			auxiliary contact fitted by user.
Number of poles			3P + N (solid)
Auxiliary contacts			
		N/O	0
		N/C	0
Notes			1 padlock, # 5 mm
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			IP20
Design			surface mounting
Contact sequence			
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	45
Rated uninterrupted current	I_u	A	80
Note on rated uninterrupted current I_u			Rated uninterrupted current I_u is specified for max. cross-section.
Connection technique			Vertical connection

Technical data

General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204 Switch-disconnector according to IEC/EN 60947-3
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	1000
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	690
Rated uninterrupted current	I_u	A	80
Note on rated uninterrupted current I_u			Rated uninterrupted current I_u is specified for max. cross-section.
Short-circuit rating			
fuse			80
Rated conditional short-circuit current	I_q	kA	415 V: 30 690 V: 50
Breaking current		kA	13.5
max. let-through energy		kA^2s	86,9
Rated short-time withstand current (1 s current)	I_{cw}	A_{rms}	2500
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	2.9

Switching capacity

Rated breaking capacity $\cos \phi$ to IEC 60947-3			
400/415 V		A	480
500 V		A	520
690 V		A	352
Safe isolation to EN 61140			
Current heat loss per contact at I_e		W	2.9
Lifespan, mechanical	Operations		10000
AC			
AC-21A			
Rated operational current switch			
400 V 415 V	I_e	A	80
500 V	I_e	A	80
690 V	I_e	A	80
AC-22A			
Rated operational current switch			
400 V 415 V	I_e	A	80
500 V	I_e	A	80
690 V	I_e	A	80
AC-23A			
Rated operational current switch			
400 V 415 V	I_e	A	80
500 V	I_e	A	66
690 V	I_e	A	42
Motor rating AC-23A, 50 - 60 Hz			
400 V 415 V	P	kW	45
500 V	P	kW	45
690 V	P	kW	37

Terminal capacities

Flexible with ferrules to DIN 46228		mm^2	
flexible		mm^2	6 - 70
Stripping length		mm	21
Tightening torque for terminal screw		Nm	7

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			
Heat dissipation per pole, current-dependent	P _{vid}	W	2.9
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55

Additional product information (links)

Technical overview cam switch, switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2
System overview cam switch T	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4
System overview switch-disconnector P	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6
Key to part numbers Cam switch	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
Key to part numbers Switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
Switches for ATEX	http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html