



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)
<b>Auxiliary contacts</b>			
		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			
<b>Motor rating AC-23A, 50 - 60 Hz</b>			
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**

<b>General</b>			
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

<b>Mechanical variables</b>			
Number of poles			3P + N (solid)
Auxiliary contacts			
		N/O	0
		N/C	0
<b>Electrical characteristics</b>			
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.
<b>Short-circuit rating</b>			
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

<b>Rated breaking capacity <math>\cos \phi</math> to IEC 60947-3</b>			
400/415 V		A	480
500 V		A	520
690 V		A	352
<b>Safe isolation to EN 61140</b>			
Current heat loss per contact at $I_e$		W	2.9
Lifespan, mechanical	Operations		10000
<b>AC</b>			
<b>AC-21A</b>			
Rated operational current switch			
400 V 415 V	$I_e$	A	80
500 V	$I_e$	A	80
690 V	$I_e$	A	80
<b>AC-22A</b>			
Rated operational current switch			
400 V 415 V	$I_e$	A	80
500 V	$I_e$	A	80
690 V	$I_e$	A	80
<b>AC-23A</b>			
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

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

## Technical safety parameters:

<b>Notes</b>			B10 <sub>d</sub> 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 <sub>vid</sub>	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	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.2">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.2</a>
System overview cam switch T	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.4">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.4</a>
System overview switch-disconnector P	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.6">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.6</a>
Key to part numbers Cam switch	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8</a>
Key to part numbers Switch-disconnector	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8</a>
Switches for ATEX	<a href="http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html">http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html</a>