DATASHEET - DMM-125/4+CM



Switch-disconnector, DMM, 125 A, 4 pole, With blue rotary handle (Type C) and drive shaft, Vertical connection



Part no. DMM-125/4+CM Catalog No. 1314207

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		Switch-disconnector Main switch maintenance switch
		DMM
		With blue rotary handle (Type C) and drive shaft
		auxiliary contact fitted by user.
		4 pole
1	N/0	0
	N/C	0
		1 padlock, # 5 mm
		Lockable in the 0 (Off) position
		IP20
		flush mounting
		L1 L2 L3 1 1 3 15 N 2 4 6 N T1 T2 T3
		$\frac{1}{2} - \frac{1}{4} \frac{3}{6} + \frac{1}{6} \frac{5}{N}$
P	kW	$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$
	kW A	$ \begin{array}{c c} 1 & 13 & 15 \\ \hline 1 & 13 & 6 \end{array} $ $ \begin{array}{c c} N \\ \hline 1 & T2 & T3 \end{array} $
		$ \frac{1}{2} \frac{1}{4} \frac{1}{6} \frac{1}{N} $ T1 T2 T3 $ \frac{1}{0} \times \times \times \times $ 59
		N/O N/C

Technical data General

		IEC/EN 60947, VDE 0660, IEC/EN 60204 Switch-disconnector according to IEC/EN 60947-3
		CE, RoHs, KEMA, EAC, Lloyds
θ	°C	-25 - +55
θ	°C	-30 - +80
		III/3
U_{imp}	kV	6
Ui	V	1000
	8 U _{imp}	8 °C

Mounting position			As required
Contacts			
Mechanical variables			
Number of poles			4 pole
Auxiliary contacts			
		N/0	0
		N/C	0
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	lu	Α	125
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Short-circuit rating			
fuse			125
Rated conditional short-circuit current	Iq	kA	50
Breaking current		kA	14.5
max. let-through energy		kA²s	140
Rated short-time withstand current (1 s current)	I _{cw}	A_{rms}	2500
Note on rated short-time withstand current lcw			Current for a time of 1 second
Heat dissipation per pole, current-dependent	P _{vid}	W	4.5
Switching capacity			
Rated breaking capacity cos φ to IEC 60947-3		A	
400/415 V		Α .	480
500 V		A	520
690 V		Α	352
Safe isolation to EN 61140		147	45
Current heat loss per contact at I _e		W	4.5
Lifespan, mechanical	Operations		10000
AC AC-21A			
Rated operational current switch			
400 V 415 V	1	Α	125
500 V	l _e	A	125
	I _e		
690 V	l _e	Α	125
AC-22A			
Rated operational current switch 400 V 415 V		Α	125
	l _e		
500 V	l _e	A	125
690 V	l _e	Α	125
AC-23A			
Rated operational current switch		٨	125
400 V 415 V	l _e	A	125
500 V	l _e	A	66
690 V	l _e	Α	42
Motor rating AC-23A, 50 - 60 Hz	P	kW	-
400 V 415 V	P	kW	59
500 V	P	kW	45
690 V Terminal capacities	P	kW	37
Flexible with ferrules to DIN 46228		mm ²	
flexible			6 - 70
		mm ²	
Stripping length		mm	21
Tightening torque for terminal screw Technical safety parameters:		Nm	7
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	In	Α	125
Heat dissipation per pole, current-dependent	P _{vid}	W	4.5
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 7.0

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@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	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	125
Rated permanent current at AC-23, 400 V	Α	125
Rated permanent current at AC-21, 400 V	Α	125
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current lcw	kA	2.5
Rated operation power at AC-23, 400 V	kW	30

Switching power at 400 V	kW	0
Conditioned rated short-circuit current Iq	kA	50
Number of poles		4
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		No
Suitable for intermediate mounting		Yes
Colour control element		Other
Type of control element		Toggle
Interlockable		No
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other

Dimensions

