## **DATASHEET - DMM-125/1+CM**



Switch-disconnector, DMM, 125 A, 3P + N (solid), With blue rotary handle (Type C) and drive shaft, Vertical connection  $\,$ 



Part no. DMM-125/1+CM Catalog No. 1314206

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Delivery program			
Product range			Switch-disconnector Main switch maintenance switch
Part group reference			DMM
			With blue rotary handle (Type C) and drive shaft
Information about equipment supplied			auxiliary contact fitted by user.
Number of poles			3P + N (solid)
Auxiliary contacts			
4		N/0	0
7		N/C	0
Notes			1 padlock, #5 mm
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			IP20
Design			flush mounting
Contact sequence			$ \begin{array}{c ccccc} L1 & L2 & L3 \\ \hline                                   $
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	59
Rated uninterrupted current	l <sub>u</sub>	Α	125
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ 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
Certifications			CE, RoHs, KEMA, EAC, Lloyds
Ambient temperature			
Operation	8	°C	-25 - +55
Storage	8	°C	-30 - +80
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	$U_{imp}$	kV	6
Rated insulation voltage	Ui	V	1000

		As required
		3P + N (solid)
	N/0	0
	N/C	0
U <sub>e</sub>	V AC	690
lu	Α	125
		Rated uninterrupted current $I_{\rm u}$ is specified for max. cross-section.
		125
Iq	kA	50
	kA	14.5
	kA²s	140
I <sub>cw</sub>	A <sub>rms</sub>	2500
		Current for a time of 1 second
P <sub>vid</sub>	W	4.5
	Α	
	Α	480
	Α	520
	Α	352
	W	4.5
Operations		10000
I <sub>e</sub>	Α	125
	Α	125
		125
·e	,,	
1	۸	125
		125
le	А	125
l <sub>e</sub>	Α	125
I <sub>e</sub>	Α	66
l <sub>e</sub>	Α	42
P	kW	
P	kW	59
P	kW	45
P	kW	37
	mm <sup>2</sup>	
	$mm^2$	6 - 70
	mm	21
	Nm	7
		B10 <sub>d</sub> values as per EN ISO 13849-1, table C1
	Iq Iq Icw Pvid Operations Ie Ie Ie Ie Ie Pe Pe Pe	Ue VAC Iu A  Iq KA KA KA²s I <sub>CW</sub> Arms  Pvid W  Pvid W  Operations  Ie A Ie

## Design verification as per IEC/EN 61439

Technical data for design verification

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Rated operational current for specified heat dissipation	In	Α	125
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	4.5
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	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. $\label{eq:specification}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

### **Technical data ETIM 7.0**

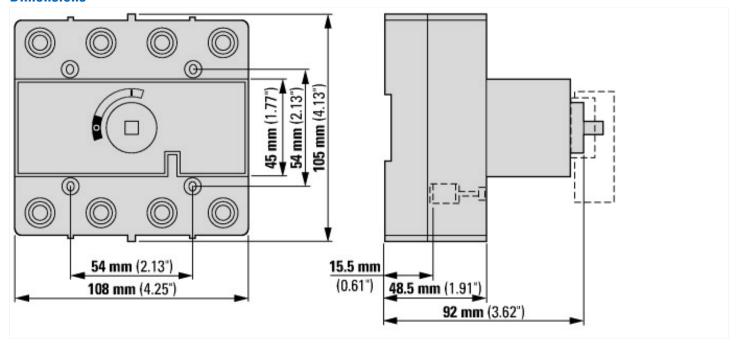
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

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])

[AKI 000013])		
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		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		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**



### Assets (links)

**Declaration of CE Conformity** 

00003270

**Instruction Leaflets** 

IL008025ZU2018\_05

### **Additional product information (links)**

IL008025ZU Switch-disconnector DCM, DMM

 $IL008025ZU\ Switch-disconnector\ DCM,\ DMM \\ ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL008025ZU2018\_12.pdf$