DATASHEET - DMM-125/3/I5/C-G



Switch-disconnector, DMM, 125 A, 3 pole, with grey knob, cylinder lock, in CI-K5 enclosure



Part no. DMM-125/3/I5/C-G

Catalog No. 172859

EL-Nummer 1405700

(Norway)

Delivery program

Delivery program			
Product range			Switch-disconnector Main switch maintenance switch
Part group reference			DMM
			with grey knob
Information about equipment supplied			auxiliary contact fitted by user.
Notes			in CI-K5 enclosure
Number of poles			3 pole
Auxiliary contacts			
· C		N/0	0
7		N/C	0
locking arrangement			cylinder lock
Degree of Protection			IP65
Design			surface mounting
Contact sequence			L1 L2 L3 $ \frac{1}{2} \frac{1}{4} \frac{1}{6} $ T1 T2 T3 $ \frac{1}{0} \times \times \times $
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	59
Rated uninterrupted current	I _u	Α	125
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.

Technical data

Conoral

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	9	°C	-25 - +60
Storage	9	°C	-40 - +80
Overvoltage category/pollution degree			III/3

Rated impulse withstand voltage	U_{imp}	kV	6
	Ui	V	1000
Rated insulation voltage	Ui	V	
Mounting position Contacts			As required
Mechanical variables			
Number of poles			3 pole
Auxiliary contacts			о рого
Adamary contacts		N/O	0
		N/C	0
Electrical characteristics		IV/ C	
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	Iu	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	415 V: 30 690 V: 50
Breaking current		kA	13.7
max. let-through energy		kA ² s	134
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	2500
Note on rated short-time withstand current lcw	•••	.1113	Current for a time of 1 second
Heat dissipation per pole, current-dependent	P _{vid}	W	4.5
Switching capacity	' VIQ	••	1.0
Rated breaking capacity cos φ to IEC 60947-3		Α	
400/415 V		A	1000
500 V		A	528
690 V		A	336
Safe isolation to EN 61140			
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	I _e	A	125
500 V	I _e	A	125
690 V		A	125
	l _e	A	123
AC-22A			
Rated operational current switch			405
400 V 415 V	l _e	A	125
500 V	l _e	Α	125
690 V	l _e	Α	125
AC-23A			
Rated operational current switch			
400 V 415 V	l _e	Α	125
500 V	le	Α	66
690 V	l _e	Α	42
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
400 V 415 V	Р	kW	59
500 V	Р	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
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Notes B10_d values as per EN ISO 13849-1, table C1

Design verification as per IEC/EN 61439

Design vermoation as per 120/214 01703			
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	40
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			UV resistance only in connection with protective shield.
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. $\label{eq:specifications}$
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

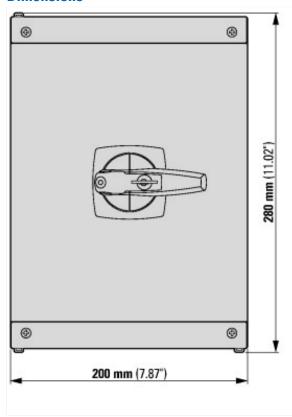
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

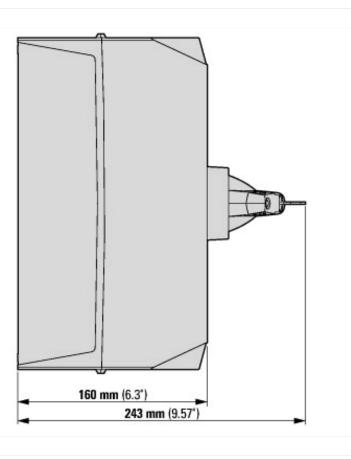
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

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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 Rated short-time withstand current low Rated operation power at AC-23, 400 V RW 0 Switching power at 400 V RW 0 Conditioned rated short-circuit current Iq RATED poles RUMBER of poles RUMBER of poles RUMBER of auxiliary contacts as normally closed contact RUMBER of auxiliary contacts as normally open contact RUMBER of auxiliary contacts as normally open contact RUMBER of auxiliary contacts as change-over contact RUMBER of auxiliary contacts as contacts a			
Rated operation power at AC-23, 400 V Switching power at 400 V Conditioned rated short-circuit current Iq Number of poles Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as shange-over contact Motor drive optional Motor drive integrated Motor drive integrated Voltage release optional Device construction Suitable for front mounting Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre Suitable for intermediate mounting Suitable for intermediate mounting Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side MV SVA SVA SVA SVA SCEW connection LW O O O O O O O O O O O O O	Rated operation power at AC-3, 400 V	kW	0
Switching power at 400 V kW 0 Conditioned rated short-circuit current Iq kA 50 Number of poles 3 3 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Motor drive optional No No Motor drive integrated No No Voltage release optional No Complete device in housing Suitable for ground mounting Yes No Suitable for front mounting 4-hole No No Suitable for distribution board installation No No Suitable for intermediate mounting No No Suitable for intermediate mounting No No Colour control element No No Type of control element Short thumb-grip Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side Fes	Rated short-time withstand current lcw	kA	2.5
Conditioned rated short-circuit current Iq KA 50 Number of poles 3 3 Number of auxiliary contacts as normally closed contact 6 6 Number of auxiliary contacts as normally open contact 6 6 Number of auxiliary contacts as change-over contact 6 7 Motor drive optional 8 7 8 Motor drive integrated 8 9 No Voltage release optional 8 9 No Device construction 8 9 Complete device in housing Suitable for ground mounting 7 7 8 Suitable for front mounting 4-hole 9 9 No Suitable for distribution board installation 9 9 No Suitable for intermediate mounting 9 9 No Colour control element 9 9 No Type of control element 9 9 Short thumb-grip Interlockable 9 9 Short thumb-grip Type of electrical connection of main circuit	Rated operation power at AC-23, 400 V	kW	0
Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact No Motor drive optional Motor drive integrated No Voltage release optional No Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for front mounting entre Suitable for distribution board installation Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side	Switching power at 400 V	kW	0
Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact No Motor drive optional No No Voltage release optional No Oevice construction Suitable for ground mounting Suitable for ground mounting 4-hole Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side Degree of protection (IP), front side O O O O O O O O O O O O O	Conditioned rated short-circuit current Iq	kA	50
Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Notor drive optional Notor drive integrated Notor drive in housing Suitable for ground mounting Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting entre Suitable for firont mounting centre Notor Suitable for intermediate mounting Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side Degree of protection (IP), front side	Number of poles		3
Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No No Voltage release optional Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre Suitable for intermediate mounting Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side	Number of auxiliary contacts as normally closed contact		0
Motor drive optional Motor drive integrated No No Voltage release optional No Device construction Complete device in housing Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Suitable for intermediate mounting Colour control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side	Number of auxiliary contacts as normally open contact		0
Motor drive integratedNoVoltage release optionalNoDevice constructionComplete device in housingSuitable for ground mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoColour control elementGreyType of control elementShort thumb-gripInterlockableYesType of electrical connection of main circuitScrew connectionDegree of protection (IP), front sideIP65	Number of auxiliary contacts as change-over contact		0
Voltage release optional No Device construction Complete device in housing 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 No Colour control element Grey Type of control element Short thumb-grip Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65	Motor drive optional		No
Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Complete device in housing Yes No Some No Some No Some Some	Motor drive integrated		No
Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Grey Type of control element Short thumb-grip Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Suitable for ground mounting No Suitable for front mounting centre No Sorew connection Serey Short thumb-grip Fes Screw connection IP65	Voltage release optional		No
Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No Colour control element Grey Short thumb-grip Yes Type of electrical connection of main circuit Degree of protection (IP), front side No No No Suitable for intermediate mounting No Servey Servey Short thumb-grip Servey Ser	Device construction		Complete device in housing
Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No Colour Control element Grey Short thumb-grip Yes Screw connection IP65	Suitable for ground mounting		Yes
Suitable for distribution board installation Suitable for intermediate mounting No Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No Grey Short thumb-grip Yes Screw connection IP65	Suitable for front mounting 4-hole		No
Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No Grey Short thumb-grip Yes Screw connection Degree of protection (IP), front side No Grey Short thumb-grip Yes Interlockable Fes IP65	Suitable for front mounting centre		No
Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Grey Short thumb-grip Yes Screw connection IP65	Suitable for distribution board installation		No
Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Short thumb-grip Yes Screw connection IP65	Suitable for intermediate mounting		No
Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65	Colour control element		Grey
Type of electrical connection of main circuit Degree of protection (IP), front side Screw connection IP65	Type of control element		Short thumb-grip
Degree of protection (IP), front side	Interlockable		Yes
	Type of electrical connection of main circuit		Screw connection
Degree of protection (NEMA) Other	Degree of protection (IP), front side		IP65
	Degree of protection (NEMA)		Other

Dimensions





Additional product information (links)

ILUU8UU6Z Switch-disconnectors	

IL008006Z Switch-disconnectors https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL008006ZU2018_05.pdf