DATASHEET - DMM-160/4/I5/C-G

Part no.

Catalog No.

EL-Nummer

(Norway)



Switch-disconnector, DMM, 160 A, 4 pole, with grey knob, cylinder lock, in CI-K5 enclosure





DMM-160/4/I5/C-G 172805

1405712

Delivery program

Product range Information about equipment supplied MMM switch-disconnector Notes MMM switch-disconnector Notes MMM switch-disconnector Notes of poles axiliary contact fitted by user. Axidiary contacts in CFX anchosure Notes of poles Availary contact fitted by user. Axidiary contacts in CFX anchosure Information about equipment supplied NO Axidiary contacts VIIII NO Information about equipment supplied NO Axidiary contacts NO Information about equipment supplied Information about equipment supplied Information about equipment supplied Information about equipment supplied Information about equipment supplied Information about equipment supplied Information about equipment supplied <th>Bonnony program</th> <th></th> <th></th> <th></th>	Bonnony program			
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Information about equipment supplied Image: Section of the dy user: Sect	Part group reference			DMM
Notes In CL-XS enclosure In CL-XS enclosure Auxiliary contacts 4 pole Auxiliary contacts NO - Image: Contact Sequence NO - Design Image: Contact Sequence eyidar lock Contact sequence Image: Contact Sequence Image: Contact Sequence Contact sequence Image: Contact Sequence Image: Contact Sequence Moor reting AC-22A, 50 - 60 Hz Image: Contact Sequence Image: Contact Sequence Moor reting AC-22A, 50 - 60 Hz Image: Contact Sequence Image: Contact Sequence Moor reting AC-22A, 50 - 60 Hz Image: Contact Sequence Image: Contact Sequence Moor reting AC-22A, 50 - 60 Hz Image: Contact Sequence Image: Contact Sequence Moor reting AC-22A, 50 - 60 Hz Image: Contact Sequence Image: Contact Sequence Moor reting AC-22A, 50 - 60 Hz Image: Contact Sequence Image: Contact Sequence Moor reting AC-22A, 50 - 60 Hz Image: Contact Sequence Image: Contact Sequence Moor Reting AC-22A, 50 - 60 Hz Image: Contact Sequence Image: Contact Sequence Moor Reting Ac-22A, 50 - 60 Hz Image: Contact				with grey knob
Number of poles 4 pole Auxiliary contacts NO 0 V NC NC 0 Voids garangement NC Vinder lock 195 Degree of Protection Image: Second garangement Image: Second garangement 195 Design Image: Second garangement Image: Second garangement Image: Second garangement Design Image: Second garangement Image: Second garangement Image: Second garangement Design Image: Second garangement Image: Second garangement Image: Second garangement Design Image: Second garangement Image: Second garangement Image: Second garangement Design Image: Second garangement Image: Second garangement Image: Second garangement Design Image: Second garangement Image: Second garangement Image: Second garangement Design Image: Second garangement Image: Second garangement Image: Second garangement Design Image: Second garangement Image: Second garangement Image: Second garangement Design Image: Second garangement Image: Second garangement	Information about equipment supplied			auxiliary contact fitted by user.
Auxiliary contacts NO Image: Contact sequence V N/C N/C P N/C N/C Vinder lock P Degree of Protection C C resemunting Design C C Surface mounting Contact sequence Image: Contact sequence Image: Contact sequence Image: Contact sequence Motor reting AC-23A, 50 - 60 Hz Image: Contact sequence Image: Contact sequence Image: Contact sequence Motor reting AC-23A, 50 - 60 Hz Image: Contact sequence Image: Contact sequence Image: Contact sequence Motor reting AC-23A, 50 - 60 Hz Image: Contact sequence Image: Contact sequence Image: Contact sequence Motor reting AC-23A, 50 - 60 Hz Image: Contact sequence Image: Contact sequence Image: Contact sequence Motor reting AC-23A, 50 - 60 Hz Image: Contact sequence Image: Contact sequence Image: Contact sequence Motor reting AC-23A, 50 - 60 Hz Image: Contact sequence Image: Contact sequence Image: Contact sequence Motor reting AC-23A, 50 - 60 Hz Image: Contact sequence Image: Contact sequence Image:	Notes			in CI-K5 enclosure
NO NO V V Incking arrangement V Degree of Protection V Design V V V V V V V V V V V V V V V V V V V V V V V V V V V NOV N Reted uniterrupted current V V N	Number of poles			4 pole
NC NC Vider lock locking arrangement MC Vider lock Degree of Protection MC IP5 Dasign Inter mounting Inter mounting Contact sequence Inter sequence Inter sequence Motor rating AC-23A, 50-60 Hz Inter sequence Inter sequence You Antor rating AC-23A, 50-60 Hz Inter sequence You Antor rating AC-23A, 50-60 Hz Inter sequence You Antor sequence Inter sequence	Auxiliary contacts			
1111Noting arrangementVinder lockP65DesignNotine mountingNotine mountingNoting AC-23A, 50 - 60 HzNotine mountingNotine mountingMovPartNotine mountingMovPartNotine mountingMovPartNotine mountingMovPartNotine mountingMathematicationPartNotine mounting	1		N/0	0
Degree of Protection P65 Design Image: Sing and S	7		N/C	0
Design Image: Surface mounting Contact sequence Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz Image: Surface mounting Motor rating AC-23A, 50 - 60 Hz<	locking arrangement			cylinder lock
Contact sequence I <td>Degree of Protection</td> <td></td> <td></td> <td>IP65</td>	Degree of Protection			IP65
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Design			surface mounting
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
400 VPkW80Rated uninterrupted currentIuA160	Contact sequence			$ \begin{array}{c} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{4} \\ \frac{1}{6} $
Rated uninterrupted current I _u A 160	Motor rating AC-23A, 50 - 60 Hz			
	400 V	Р	kW	80
	Rated uninterrupted current	l _u	А	160
Note on rated uninterrupted current l _u specified for max. cross-section.	Note on rated uninterrupted current !u			Rated uninterrupted current $\boldsymbol{I}_{\boldsymbol{u}}$ is specified for max. cross-section.

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	θ	°C	-25 - +60
Storage	θ	°C	-40 - +80
Overvoltage category/pollution degree			111/3
Rated impulse withstand voltage	U _{imp}	kV	6
Rated insulation voltage	Ui	V	1000

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Mounting position			As required
Contacts Machanical variables			
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	A	160
Note on rated uninterrupted current $!_u$			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Short-circuit rating			
fuse			160
Rated conditional short-circuit current	lq	kA	415 V: 30 690 V: 50
Breaking current		kA	13.5
max. let-through energy		kA²s	86,9
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	7.4
Switching capacity			
Rated breaking capacity $\cos \phi$ to IEC 60947-3		A	
400/415 V		A	1080
500 V		A	528
690 V		A	336
Safe isolation to EN 61140			
Current heat loss per contact at I _e		W	7.4
Lifespan, mechanical	Operations		10000
AC			
AC-21A			
Rated operational current switch			
400 V 415 V	le	A	160
500 V	le	A	160
690 V	l _e	A	160
AC-22A			
Rated operational current switch			
400 V 415 V	Ι _e	Α	160
500 V	le	А	160
690 V	le	Α	160
AC-23A			
Rated operational current switch			
400 V 415 V	le	Α	140
500 V	le	А	66
690 V	I _e	A	42
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
400 V 415 V	Р	kW	80
500 V	Р	kW	45
690 V	Р	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:			P10 volume on per EN ISO 12840 1 toble C1
Notes			B10 _d values as per EN ISO 13849-1, table C1

Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	160
Heat dissipation per pole, current-dependent	P _{vid}	W	7.4
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 switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

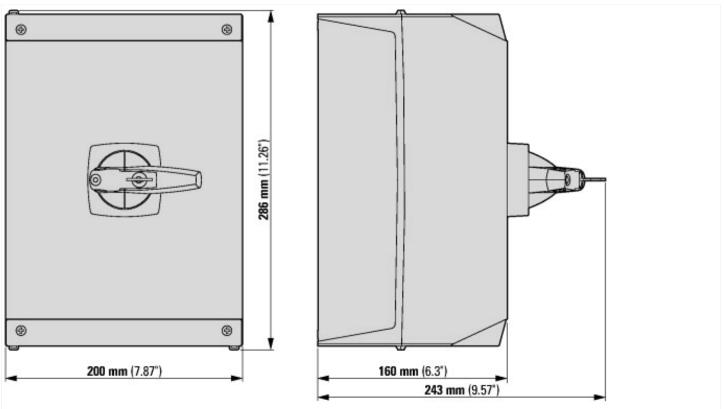
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

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	160
Rated permanent current at AC-23, 400 V	А	140
Rated permanent current at AC-21, 400 V	А	160
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current Icw	kA	2.5
Rated operation power at AC-23, 400 V	kW	0

Switching power at 400 V Conditioned rated short-circuit current Ig	kW	0
Conditioned rated short-circuit current la		
	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		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
Degree of protection (NEMA)		Other

Dimensions



Assets (links)

Declaration of CE Conformity 00003270 Instruction Leaflets IL008006ZU2018_05

Additional product information (links)

IL008006Z Switch-disconnectors

IL008006Z Switch-disconnectors

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL008006ZU2018_05.pdf