DATASHEET - DDC-1000/2/M4/P-G



DC switch disconnector, 1000 A, 2 pole, 1 N/O, 1 N/C, with grey knob, rear mounting



Part no. DDC-1000/2/M4/P-G Catalog No. 6098955

-			
110	IVORV	nro	arom
υc	livery	DIU	uranı

Don'tory program			
Product range			DC switch-disconnector Main switch maintenance switch
Part group reference			DDC
			with grey knob
Information about equipment supplied			auxiliary contact fitted by user.
Notes			With metal shaft for a control panel depth of 400 mm
Number of poles			2 pole
Auxiliary contacts			
1		N/0	1
7		N/C	1
Degree of Protection			IP20
Design			rear mounting
Rated uninterrupted current	Iu	Α	1000
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.

Technical data

General

Ambient temperature Operation 8°C -25 - +55 Storage 8°C -30 - 80 Overvoltage category/pollution degree Rated impulse withstand voltage Rated insulation voltage Number of poles Auxiliary contacts Rated uninterrupted current l _u is specified for max. cross-section.	Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204 Switch-disconnector according to IEC/EN 60947-3
Operation 8 °C -25 +55 Storage 8 °C -30 +80 Overvoltage category/pollution degree III/3 Rated impulse withstand voltage U _{Imp} kV 12 Rated insulation voltage U _I V 1200 Mounting position Auxiliary contacts Mechanical variables	Certifications			CE, RoHs
Storage Overvoltage category/pollution degree Rated impulse withstand voltage Rated insulation voltage Mounting position Contacts Mechanical variables Number of poles Auxiliary contacts Number of poles Auxiliary contacts Fleetrical characteristics Rated uninterrupted current ! U Note on rated uninterrupted current! U Rated short-time withstand current (1 s current) Note on rated uninterrupted current ! U Note on rated uninterrupted current! U Note on rated uninterrup	Ambient temperature			
Overvoltage category/pollution degree Rated impulse withstand voltage Rated insulation voltage Vi Vi Vo 1200 Mounting position As required Contacts Mechanical variables Number of poles Auxiliary contacts Number of poles Auxiliary contacts I N/O 1 Electrical characteristics Rated uninterrupted current Iu Note on rated uninterrupted current Iu Rated short-time withstand current (1 s current) Vimp Vimp Vi Vi 1200 As required As required Pole As required	Operation	8	°C	-25 - +55
Rated impulse withstand voltage Rated insulation voltage Vi Vi Vi Voi As required Contacts Mechanical variables Number of poles Auxiliary contacts I Nor of 1 Electrical characteristics Rated uninterrupted current I vi Note on rated uninterrupted current I vi Note on rated uninterrupted current I vi Nor of vi Rated short-time withstand current (1 s current) Vimp kV 12 1200 As required As required	Storage	9	°C	-30 - +80
Rated insulation voltage Mounting position Contacts Mechanical variables Number of poles Auxiliary contacts N/O 1 Electrical characteristics Rated uninterrupted current (1 s current) Note on rated uninterrupted current (1 s current) Via 200 As required As required As pole Applied A pression of 200 A pr	Overvoltage category/pollution degree			III/3
Mounting position Contacts Mechanical variables Number of poles Auxiliary contacts N/O 1 Electrical characteristics Rated uninterrupted current !u Rated short-time withstand current (1 s current) As required 2 pole 2 pole 1	Rated impulse withstand voltage	U_{imp}	kV	12
Contacts Mechanical variables Number of poles Auxiliary contacts N/O N/O Electrical characteristics Rated uninterrupted current Iu Note on rated uninterrupted current Iu Rated short-time withstand current (1 s current) Nechanical variables Pole Pol	Rated insulation voltage	Ui	V	1200
Mechanical variables Image: Contact of poles Image: Contact of poles Image: Contact of poles Image: Contact of pole	Mounting position			As required
Number of poles Auxiliary contacts N/O 1 Electrical characteristics Rated uninterrupted current lu Note on rated uninterrupted current (1 s current) Rated short-time withstand current (1 s current) Page 2 pole N/O 1 1 000 Rated uninterrupted current lu is specified for max. cross-section.	Contacts			
Auxiliary contacts N/O 1 Lectrical characteristics Rated uninterrupted current lu Note on rated uninterrupted current lu Rated short-time withstand current (1 s current) Note on rated uninterrupted current lu Rated short-time withstand current (1 s current) Note on rated uninterrupted current lu s current lu Rated short-time withstand current (1 s current) Note on rated uninterrupted current lu is specified for max. cross-section.	Mechanical variables			
N/O 1 N/O N/C 1 N	Number of poles			2 pole
Electrical characteristics Rated uninterrupted current Note on rated uninterrupted current (1 s current) Rated short-time withstand current (1 s current) Note on rated uninterrupted current (1 s current) Low Arms Note on Arms 1 u 1 u 1 u 1 u 1 u 1 u 1 u 1	Auxiliary contacts			
Electrical characteristics Rated uninterrupted current Note on rated uninterrupted current (1 s current) Rated short-time withstand current (1 s current) Low Arms Rated Short-time withstand current (1 s current) Rated Short-time withstand current (1 s current) Low Arms Rated Short-time withstand current (1 s current)			N/0	1
Rated uninterrupted current Note on rated uninterrupted current! Rated short-time withstand current (1 s current) Iu A 1000 Rated uninterrupted current Iu is specified for max. cross-section.			N/C	1
Note on rated uninterrupted current I _u Rated uninterrupted current I _u is specified for max. cross-section. Rated short-time withstand current (1 s current) I _{cw} A _{rms} 25000	Electrical characteristics			
Rated short-time withstand current (1 s current) I _{cw} A _{rms} 25000	Rated uninterrupted current	Iu	Α	1000
	Note on rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Note on rated short-time withstand current low Current for a time of 1 second	Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	25000
	Note on rated short-time withstand current lcw			Current for a time of 1 second

Rated short-circuit making capacity	I _{cm}	kA _{eff}	54.5
Heat dissipation per pole, current-dependent	P_{vid}	W	53
Switching capacity			
Lifespan, mechanical	Operations		5000
DC			
Utilization category DC21B			
Rated operational current switch			
480 V	l _e	Α	1000
600 V	l _e	Α	1000
1000 V	l _e	Α	1000
Terminal capacities			
Flat conductor connection with busbars		mm^2	2 x (60 x 5)
Terminal screw			M12 (2 x)
Tightening torque for terminal screw		Nm	28

Design verification as per IEC/EN 61439

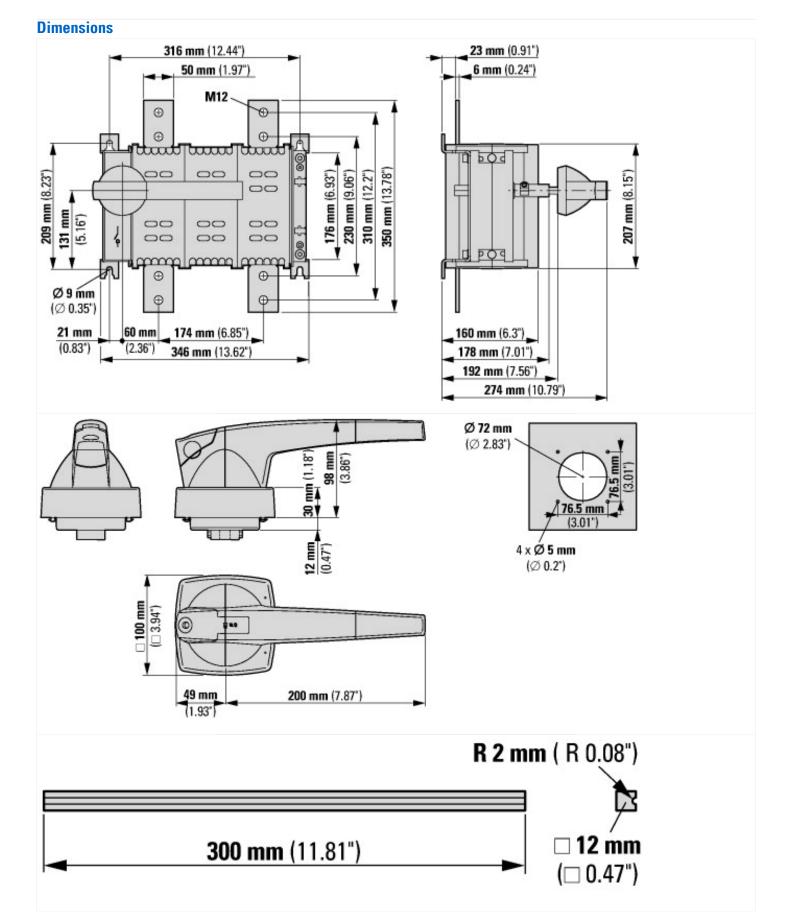
2001g.: 1011110u.to.: 40 por 120, 211 01 100			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	1000
Heat dissipation per pole, current-dependent	P _{vid}	W	53
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
EC/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 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.

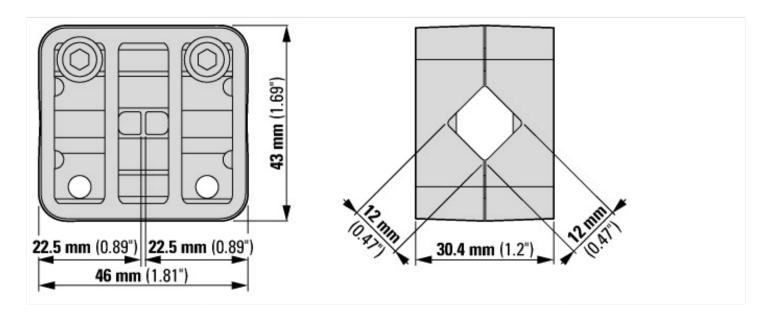
Technical data ETIM 7.0

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])	ii teeiiilology / Oli	1000 000	inclin, circuit broaken, contain assument, circuit also allicotto (care sorto.c.) 27 or 11 oc
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	1	0
Rated operating voltage	V	1	1000 - 1000
Rated permanent current lu	Α	١	1000
Rated permanent current at AC-23, 400 V	Α	١	0
Rated permanent current at AC-21, 400 V	А	١	0
Rated operation power at AC-3, 400 V	kV	W	0
Rated short-time withstand current lcw	k.A	Α	25
Rated operation power at AC-23, 400 V	kV	W	0
Switching power at 400 V	k\	W	0
Conditioned rated short-circuit current Iq	k.A	Α	0
Number of poles			2
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			No
Colour control element			Grey
Type of control element			Long turning handle
Interlockable			Yes
Type of electrical connection of main circuit			Screw connection
Degree of protection (IP), front side			IP20
Degree of protection (NEMA)			Other





Assets (links)

Instruction Leaflets

IL008015ZU2018_05

Additional product information (links)

IL008015ZU Switch disconnector DDC, DC-Switch (Box 3)		
IL008015ZU Switch disconnector DDC, DC- Switch (Box 3)	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL008015ZU2018_05.pdf	
Technical overview cam switch, switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2	
System overview cam switch T	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4	
System overview switch-disconnector P	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6	
Key to part numbers Cam switch	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8	
Key to part numbers Switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8	
Switches for ATEX	http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html	