DATASHEET - DDC-1250/2/M4/P-G



DC switch disconnector, 1250 A, 2 pole, 1 N/O, 1 N/C, with grey knob, rear mounting



Part no. DDC-1250/2/M4/P-G Catalog No. 6098958

-			
110	IVORV	nro	arom
υc	livery	DIU	uranı

- ·			
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			
•		N/0	1
7		N/C	1
Degree of Protection			IP20
Design			rear mounting
Rated uninterrupted current	Iu	Α	1250
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ 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
Ambient temperature			
Operation	9	°C	-25 - +55
Storage	θ	°C	-30 - +80
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U_{imp}	kV	12
Rated insulation voltage	Ui	V	1200
Mounting position			As required
Contacts			
Mechanical variables			
Number of poles			2 pole
Auxiliary contacts			
		N/0	1
		N/C	1
Electrical characteristics			
Rated uninterrupted current	I _u	Α	1250
Note on rated uninterrupted current $\boldsymbol{I}_{\boldsymbol{u}}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
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	83
Switching capacity			
Lifespan, mechanical	Operations		5000
DC			
Utilization category DC21B			
Rated operational current switch			
480 V	I _e	Α	1250
600 V	I _e	Α	1250
1000 V	I _e	Α	1250
Terminal capacities			
Flat conductor connection with busbars		mm^2	2 x (80 x 5)
Terminal screw			M12 (2 x)
Tightening torque for terminal screw		Nm	28

Design verification as per IEC/EN 61439

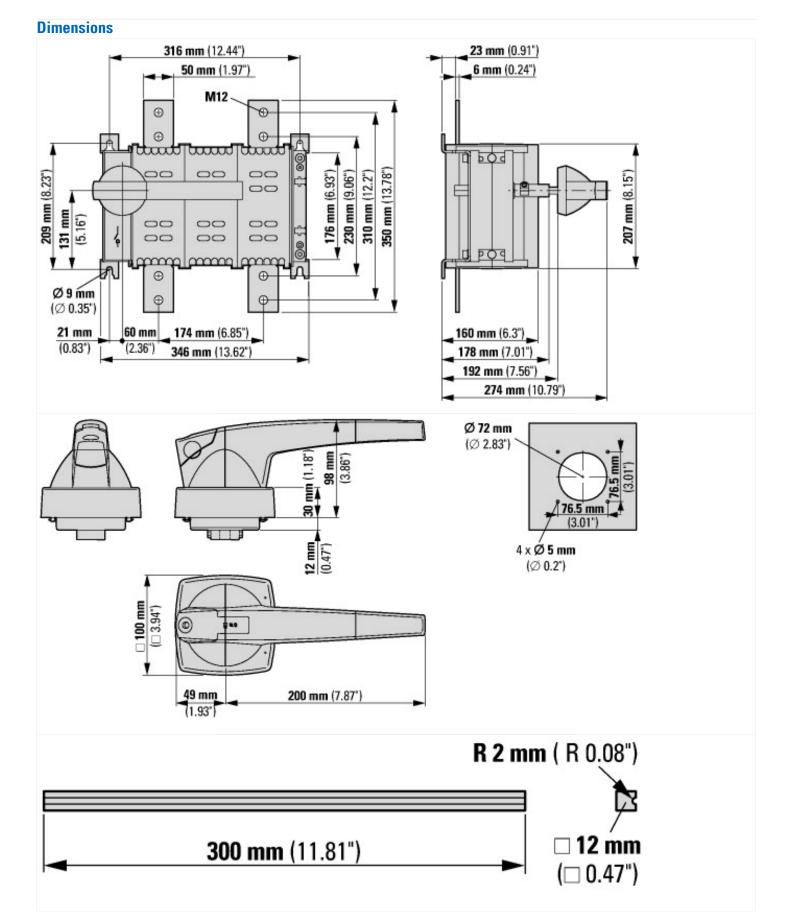
Design vernication as per icu/civ 01459			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	1250
Heat dissipation per pole, current-dependent	P _{vid}	W	83
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	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 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.

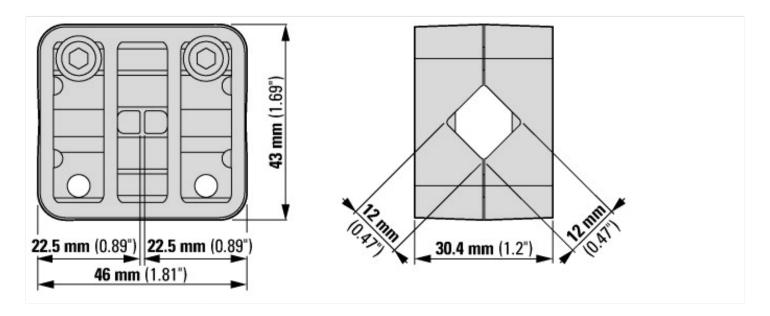
Technical data ETIM 7.0

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

Varsion as aminotenine-Service which 9 Yes Version as anitherance-Service which 6 7 No Number of swincing which 6 7 10 10 Max. rated operating voltage Use AC 8 0 10 <th>[AKF060013])</th> <th>37.</th> <th></th> <th></th>	[AKF060013])	37.		
Version as safety switch No Version as seregring switch No Version as seregring switch No Must read operating voltage No Max. read operating voltage No Rated permanent current at AC-23,400 V No Rated operation power at AC-3,400 V No Rated operation power at AC-3,400 V No Stated operation power at AC-3,400 V No Stated operation power at AC-23,400 V No Switching power at AC-23,400 V No Number of awaiisting contacts as normally clead contact No Number of awaiisting contacts as normally clead contact No Number of awaiisting contacts as normally open contact No Motor drive optional No Motor drive optional No Motor drive integrated No Swita	Version as main switch			Yes
Version as emergency stop installation I No Version as reversing switch I No Number of switches I I Name of switches I V Rated operating voltage I V Rated permanent current at AC-23,400 V A 20 Rated operation power at AC-3,400 V A 0 Rated short-time withstand current so I N 0 Rated short-time withstand current sq I N 0 Rated operation power at AC-3,400 V I N 0 Rated operation power at AC-3,400 V I N 0 Rated operation power at AC-3,400 V I N 0 Conditioned rated short-circuit current lq I N 0 Conditioned rated short-circuit current lq I N 0 Number of poles I I 0 0 Number of suxiliary contacts as normally closed contact I I 0 0 Number of policial switzers at Lange-over contact I <	Version as maintenance-/service switch			Yes
Version as reversing switch Image: Imag	Version as safety switch			No
Number of switches Include operation voltage Ue AC V 0 Rated operation voltage V 1000-1000 Rated operation voltage V 1000-1000 Rated permanent current at AC-23, 400 V A 0 Rated permanent current at AC-23, 400 V K 0 Rated operation power at AC-3, 400 V KW 0 Rated short-time withstand current low W 0 Rated short-time withstand current low W 0 Switching power at AC-23, 400 V W 0 Switching power at 400 V W 0 Conditioned rated short-circuit current lq W 0 Number of poles W 0 Number of auxiliary contacts as normally closed contact W 0 Motor drive optional W 0 Motor drive optional W 0 Motor drive optional W 0 Value class optional W 0 Switable for fort mounting 4-blo W 0 Suitable for fort mounting 4-blo W 0 <td>Version as emergency stop installation</td> <td></td> <td></td> <td>No</td>	Version as emergency stop installation			No
Max. rated operation voltage Ue AC V 0 1000-1000 Rated operating voltage V 1250 1	Version as reversing switch			No
Rated operating voltage V 1000-1000 Rated permanent current at AC-23,400 V A 1250 Rated permanent current at AC-23,400 V A 0 Rated son-time withstand current at AC-21,400 V A 0 Rated son-time withstand current at AC-23,400 V B A 25 Rated son-time withstand current at AC-23,400 V B AW 0 Rated son-time withstand current at AC-23,400 V B AW 0 Rated son-time withstand current lew B B 0 0 Number of polos B B 0 0 0 Number of auxiliary contacts as normally open contact B B B 0 0 0 0 0 0 0 0 0 0 0<	Number of switches			1
Rated permanent current lu A 1250 Rated permanent current at AC-23, 400 V A 0 Rated permanent current at AC-21, 400 V A 0 Rated operation power at AC-3, 400 V A 0 Rated operation power at AC-3, 400 V A 2 Rated operation power at AC-23, 400 V W 0 Switching power at 400 V W 0 Conditioned rated short-circuit current Iq KA 0 Number of auxiliary contacts as normally closed contact KA 0 Number of auxiliary contacts as normally copen contact KA 0 Number of auxiliary contacts as change-over contact KA 0 Motor drive optional KA 0 Motor drive integrated KA No Voltage release optional KA No Suitable for fort mounting 4-tola KA No Suitable for front mounting 4-tola KA No Suitable for front mounting centre KA No Suitable for front mounting centre KA No Suitable for	Max. rated operation voltage Ue AC		V	0
Rated permanent current at AC-23, 400 V A 0 Rated permanent current at AC-21, 400 V AW 0 Rated operation power at AC-3, 400 V AW 0 Rated short-time withstand current low AW 0 Rated permanent autorent low withstand current low AW 0 Rated permanent autorent low withstand current low AW 0 Rated permanent autorent low withstand current low AW 0 Conditioned rated short-circuit current lq AW 0 Conditioned rated short-circuit current lq AW 0 Number of poles BW 0 Number of auxiliary contacts as normally closed contact BW 0 Number of auxiliary contacts as normally open contact BW 0 Notor drive optional BW 0 0 Motor drive optional BW 0 0 Nottage release optional BW 0 0 Suitable for front mounting 4-hole BW 0 0 Suitable for front mounting 4-hole BW 0 0	Rated operating voltage		V	1000 - 1000
Rated permanent current at AC-21, 400 V A 0 Rated operation power at AC-3, 400 V kW 0 Rated short-time withstand current lcw kW 25 Rated short-time withstand current lcw kW 0 Switching power at AC-23, 400 V kW 0 Switching power at 400 V kW 0 Conditioned rated short-circuit current lq kW 2 Number of plose y 2 Number of auxiliary contacts as normally closed contact y 0 Number of auxiliary contacts as normally open contact y 0 Motor drive optional y 0 Motor drive integrated y 0 Voltage release optional y 0 Device construction y 0 Suitable for ground mounting y 0 Suitable for front mounting 4-hole y 0 Suitable for first mounting active y 0 Suitable for intermediate mounting y 0 Suitable for intermediate mounting y 0	Rated permanent current lu		Α	1250
Rated operation power at AC-3,400 V kW 25 Rated short-time withstand current low kW 0 Switching power at ACV-23,400 V kW 0 Switching power at 400 V kW 0 Conditioned rated short-circuit current lq kW 0 Number of poles A 2 Number of auxiliary contacts as normally closed contact C 0 Number of auxiliary contacts as change-over contact C 0 Motor drive optional C 0 Motor drive integrated C No Voltage release optional C No Device construction C W No Suitable for ground mounting C No No Suitable for front mounting 4-hole No No Suitable for front mounting centre No No Suitable for front mounting centre No No Suitable for intermediate mounting No No Colour control element No No Type of control element C	Rated permanent current at AC-23, 400 V		Α	0
Rated short-time withstand current low Rated operation power at AC-23, 400 V Withing 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 popen contact Number of auxiliary contacts as change-over contact Notor drive integrated Notor drive integrated Notage release optional Notice construction Suitable for ground mounting Suitable for front mounting centre Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side	Rated permanent current at AC-21, 400 V		Α	0
Rated operation power at AC-23,400 V Switching power at 400 V Conditioned rated short-circuit current lq Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as normally closed contact Number of auxiliary contacts	Rated operation power at AC-3, 400 V		kW	0
Switching power at 400 V kW 0 Conditioned rated short-circuit current Iq kA 0 Number of poles 4 2 Number of auxiliary contacts as normally closed contact 6 2 Number of auxiliary contacts as normally open contact 6 0 Number of auxiliary contacts as change-over contact 6 0 Motor drive optional 6 No Motor drive integrated 7 No Voltage release optional 8 No Suitable for ground mounting 8 Yes Suitable for front mounting 4-hole 9 No Suitable for front mounting 4-hole No No Suitable for distribution board installation No No Suitable for intermediate mounting No No Colour control element No No Type of control element No <td>Rated short-time withstand current lcw</td> <td></td> <td>kA</td> <td>25</td>	Rated short-time withstand current lcw		kA	25
Conditioned rated short-circuit current Iq KA 0 Number of poles 2 2 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 6 Motor drive optional 6 7 8 Motor drive integrated 6 8 9 8 Voltage release optional 6 9 9 8 9 9 Suitable for ground mounting 6 9	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 change-over contact Notor drive optional Notor drive integrated Notor drive integrated built-in technique Notor drive integrated b	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 No Motor drive optional No No No No No Suitage release optional Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for first mediate mounting 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	Conditioned rated short-circuit current Iq		kA	0
Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Notor drive optional Motor drive integrated 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 front mounting centre Suitable for front mounting tentre Suitable for fortn tmounting tentre Suitable for fortn mounting centre 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 poles			2
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 front mounting centre Suitable for fortn mounting centre Suitable for fortn mounting centre Suitable for font mounting centre 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	Number of auxiliary contacts as normally closed contact			0
Motor drive optionalNoMotor drive integratedNoVoltage release optionalNoDevice constructionBuilt-in device fixed built-in techniqueSuitable for ground mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoColour control elementGreyType of control elementLong turning handleInterlockableYesType of electrical connection of main circuitScrew connectionDegree of protection (IP), front sideIP20	Number of auxiliary contacts as normally open contact			0
Motor drive integratedNoVoltage release optionalNoDevice constructionBuilt-in device fixed built-in techniqueSuitable for ground mountingYesSuitable for front mounting 4-holeNoSuitable for distribution board installationNoSuitable for distribution board installationNoSuitable for intermediate mountingNoColour control elementGreyType of control elementLong turning handleInterlockableYesType of electrical connection of main circuitScrew connectionDegree of protection (IP), front sideIP20	Number of auxiliary contacts as change-over contact			0
Voltage release optional Device construction Suitable for ground mounting Suitable for front mounting 4-hole 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 Built-in device fixed built-in technique No No Colour control element No No Colour control element Long turning handle Yes Screw connection IP20	Motor drive optional			No
Device construction Built-in device fixed built-in technique Yes Suitable for ground mounting 4-hole Suitable for front mounting 4-hole 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	Motor drive integrated			No
Suitable for ground mounting 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 Yes Yes Yes Yes Yes Interlockable Protection (IP), front side Interlockable Interlockabl	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 Corey Crey Crey Crey Crew connection Colour control element Corey Crew connection Colour control element Col	Device construction			Built-in device fixed built-in technique
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 Crey Long turning handle Yes Screw connection IP20	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 Res No Res Serew connection P20	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 Long turning handle Yes Screw connection IP20	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 Long turning handle Yes Screw connection IP20	Suitable for distribution board installation			No
Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Long turning handle Yes Screw connection IP20	Suitable for intermediate mounting			No
Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP20	Colour control element			Grey
Type of electrical connection of main circuit Degree of protection (IP), front side Screw connection IP20	Type of control element			Long turning handle
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			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	