#### DATASHEET - DDC-800/2/M4/P-G



DC switch disconnector, 800 A, 2 pole, 1 N/O, 1 N/C, with grey knob, rear mounting

DDC-800/2/M4/P-G

6098952



Part no. Catalog No.

**Delivery program** Product range DC switch-disconnector Main switch maintenance switch DDC Part group reference 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 N/C 1 7 IP20 Degree of Protection Design rear mounting Rated uninterrupted current Ιu А 800 Note on rated uninterrupted current !u Rated uninterrupted current Iu 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	θ	°C	-25 - +55
Storage	θ	°C	-30 - +80
Overvoltage category/pollution degree			111/3
Rated impulse withstand voltage	U <sub>imp</sub>	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	Iu	А	800
Note on rated uninterrupted current $!_{\rm u}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Rated short-time withstand current (1 s current)	I <sub>cw</sub>	A <sub>rms</sub>	25000
Note on rated short-time withstand current lcw			Current for a time of 1 second

Rated short-circuit making capacity	I <sub>cm</sub>	kA <sub>eff</sub>	54.5
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	34
Switching capacity			
Lifespan, mechanical	Operations		5000
DC			
Utilization category DC21B			
Rated operational current switch			
480 V	le	А	800
600 V	le	А	800
1000 V	le	А	800
Terminal capacities			
Solid		mm <sup>2</sup>	2 x 240
Flat conductor connection with busbars		mm <sup>2</sup>	2 x (50 x 5)
Terminal screw			M12
Tightening torque for terminal screw		Nm	28

# Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	I <sub>n</sub>	А	800
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	34
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 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.

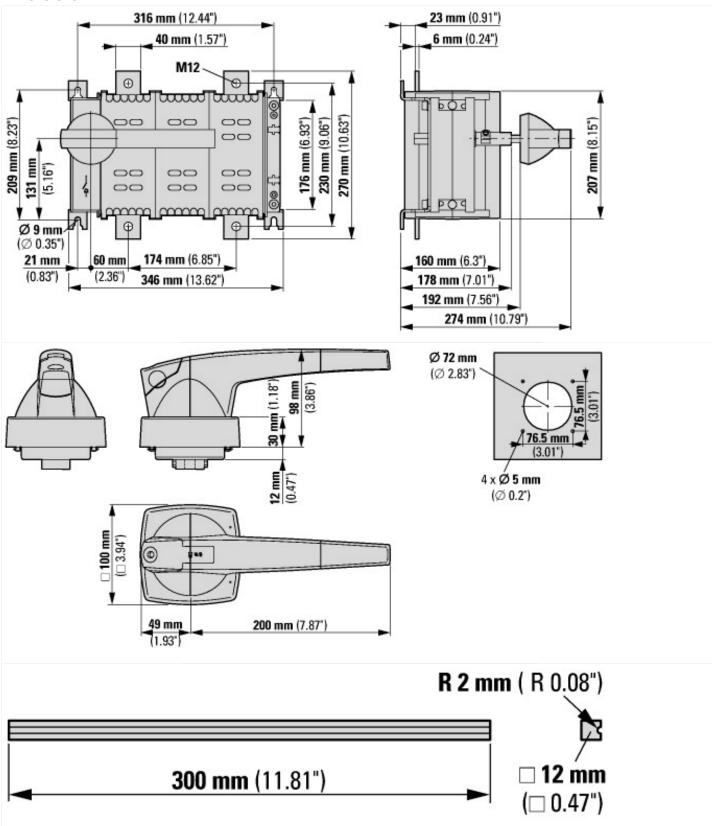
#### **Technical data ETIM 7.0**

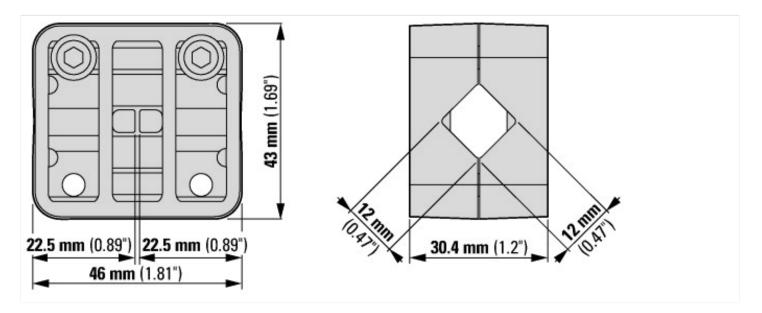
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

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 maintenance-javrice switch         Image: Provide state sta	[AKF000013])		
Version as safety switch         Image: Provide and State	Version as main switch		Yes
Version as energency stop installation         Non-         Non-           Version as revensing switch         Non-         Non-           Number of switchs         Non-         Non-           Name of switchs         Non-         Non-           Rade operation prover at AC-3, 400 V         Non-         Non-           Rade operation prover at AC-3, 400 V         Non-         Non-           Rade operation prover at AC-3, 400 V         Non-         Non-           Switching prover at 400 V         Non-         Non-           Switching prover at 400 V         Non-         Non-           Number of axiliary contacts as normally close contact         Non-         Non-           Number of axiliary contacts as normally close contact         Non-         Non-           Number of axiliary contacts as normally close contact         Non-         Non-           Number of axiliary contacts as normally close contact	Version as maintenance-/service switch		Yes
Version as reversing switch         I         I           Number of switches         I         I           Max. resed operation voltage Ue AC         V         0           Rated operation power at AC-23, 400 V         V         0           Rated operation power at AC-3, 400 V         V         0           Rated operation power at AC-3, 400 V         V         0           Switching power at 400 V         V         0           Number of auxiliary contacts as normally closed contact         V         0           Number of auxiliary contacts as normally closed contact         V         0           Number of auxiliary contacts as normally closed contact         V         0           Number of auxiliary contacts as normally closed contact         V         No           Number of auxiliary contacts as normally closed contact         No         No           Switabe for fort mounting contact         V         No           Swit	Version as safety switch		No
Number of switches         I         I           Max. rated operation voltage Ue AC         V         0           Rated operation voltage Ue AC         V         000-1000-1000-1000-1000-1000-1000-1000	Version as emergency stop installation		No
Aractadoperation voltage Ue AC         V         0           Rated operation voltage Ue AC         V         000-1000           Rated operation voltage Ue AC         A         0           Rated permanent current ta AC-23, 400 V         A         0           Rated operation power at AC-3, 400 V         K         0           Rated operation power at AC-3, 400 V         K         0           Rated operation power at AC-3, 400 V         K         0           Rated operation power at AC-3, 400 V         K         0           Switching contract current lq         K         0           Number of auxiliary contacts as normally closed contact         K         0           Number of auxiliary contacts as change-over contact         K<	Version as reversing switch		No
And operation outsign         Image: status of the sta	Number of switches		1
Rated permanent current lu         A         800           Rated permanent current at AC-23, 400 V         A         0           Rated permanent current at AC-21, 400 V         KA         0           Rated permanent current at AC-23, 400 V         KA         0           Rated operation power at AC-23, 400 V         KA         0           Rated operation power at AC-23, 400 V         KA         0           Switching power at AC-23, 400 V         KM         0           Conditioned rated short-circuit current lq         KM         0           Switching power at AC-23, 400 V         KM         0           Conditioned rated short-circuit current lq         KM         0           Number of auxiliary contacts as normally copen contact         KM         0           Number of auxiliary contacts as normally copen contact         M         0           Number of auxiliary contacts as normally copen contact         M         0           Number of auxiliary contacts as normally copen contact         M         0           Number of auxiliary contacts as normally copen contact         M         0           Number of auxiliary contacts as normally copen contact         M         0           Sutable for drive integrated         N         N           Sutable for fort mount	Max. rated operation voltage Ue AC	V	0
Rated permanent current at AC-23, 400 V       A       0         Rated operation power at AC-3, 400 V       KW       0         Rated operation power at AC-3, 400 V       KM       5         Rated operation power at AC-3, 400 V       KM       0         Rated operation power at AC-3, 400 V       KM       0         Switching power at 400 V       KW       0         Conditioned rated short-circuit current Iq       KW       0         Number of auxiliary contacts as normally closed contact       KW       0         Number of auxiliary contacts as change-over contact       KM       0         Motor drive optional       KM       0       0         Number of auxiliary contacts as change-over contact       KM       0       0         Number of auxiliary contacts as change-over contact       KM       No       No         Notar drive prisonal       KM       No       No       No         Sutable for ground mounting       KM       No       No       No       No         Sutable for front mounting centre       KM       No	Rated operating voltage	V	1000 - 1000
Astack permanent current at AC-21, 400 V         A         0           Rated operation power at AC-3, 400 V         KW         0           Rated operation power at AC-23, 400 V         KW         0           Rated operation power at AC-23, 400 V         KW         0           Switching power at 400 V         KW         0           Conditioned rated short-circuit current lq         KW         0           Number of auxiliary contacts as normally closed contact         KW         0           Number of auxiliary contacts as normally closed contact         F         0           Number of auxiliary contacts as normally closed contact         F         0           Number of auxiliary contacts as normally closed contact         F         F         0           Number of auxiliary contacts as change-over contact         F         F         0           Number of auxiliary contacts as change-over contact         F         F         0           Number of auxiliary contacts as change-over contact         F         F         No           Number of auxiliary contacts as change-over contact         F         No         No           Sutable for front mounting 4-hole         F         No         No         No           Sutable for front mounting 4-hole         F         No	Rated permanent current lu	А	800
Aade operation power at AC-3, 400 V         Image: Add operation power at AC-33, 400 V         Image: Add operation power at AC-23, 400 V	Rated permanent current at AC-23, 400 V	А	0
Add short-time withstand current low       Image: Add short-timad short-timad short-time withstand current low	Rated permanent current at AC-21, 400 V	А	0
Rated operation power at AC-23, 400 V         IM         IM         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Conditioned rated short-circuit current lq         Image: Power at 400 Condit current lq         Image: Power at 400 Conditioned r	Rated operation power at AC-3, 400 V	kW	0
Withing power at 400 V         Image: Margin and and and and and and and and and an	Rated short-time withstand current lcw	kA	25
Kan         Kan         Construction of the second of the s	Rated operation power at AC-23, 400 V	kW	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 drauxiliary contacts as change-over contact         0           Motor drive pitroinal         0           Motor drive integrated         0           Notard review pitroinal         0           Notard review pitroinal         0           Suitable for ground mounting         0           Suitable for front mounting 4-hole         0           Suitable for intermediate mounting	Switching power at 400 V	kW	0
Aumber of auxiliary contacts as normally closed contact         0           Number of auxiliary contacts as normally open contact         0           Number of auxiliary contacts as normally open contact         0           Motor drive optional         0           Motor drive integrated         No           Voltage release optional         No           Device construction         No           Suitable for ground mounting 4-hole         Yes           Suitable for first mounting centre         No           Suitable for intermediate mounting         No           Suitable for intermediate mounting         Yes           Suitable for intermediate mounting         No           Suitable for intermediate mounting         Yes           Colour control element         Yes           Type of control element         Yes           Stree of protection (I/P), front side         Yes           Stree of protection (I/P), front side         Yes	Conditioned rated short-circuit current Iq	kA	0
Number of auxiliary contacts as normally open contact       Image: Control of auxiliary contacts as normally open contact       Image: Control of auxiliary contacts as normally open contact         Number of auxiliary contacts as normally open contact       Image: Control of auxiliary contacts as normally open contact       Image: Control of auxiliary contacts as normally open contact         Number of auxiliary contacts as normally open contact       Image: Control of auxiliary contacts as normally open contact       Image: Control of auxiliary contacts as normally open contact         Notor drive ontorion       Image: Control of auxiliary contacts as normally open contact       Image: Control of auxiliary contacts as normally open contact         Suitable for front mounting 4-hole       Image: Control of auxiliarion       Image: Control of auxiliarion         Suitable for intermediate mounting       Image: Control of auxiliarion       Image: Control of auxiliarion         Suitable for intermediate mounting       Image: Control of auxiliarion       Image: Control of auxiliarion         Suitable for intermediate mounting       Image: Control of auxiliarion       Image: Control of auxiliarion         Suitable for intermediate mounting       Image: Control of auxiliarion       Image: Control of auxiliarion         Suitable for intermediate mounting       Image: Control of auxiliarion       Image: Control of auxiliarion         Suitable for intermediate mounting       Image: Control of auxiliarion       Image: Control of auxiliarion </td <td>Number of poles</td> <td></td> <td>2</td>	Number of poles		2
Number of auxiliary contacts as change-over contact         Image: space optional         Imag	Number of auxiliary contacts as normally closed contact		0
Motor drive optional         No           Motor drive integrated         No           Voltage release optional         No           Device construction         Suitable for ground mounting           Suitable for ground mounting 4-hole         Suitable for front mounting centre           Suitable for front mounting centre         Suitable for distribution board installation           Suitable for intermediate mounting         Suitable for intermediate mounting           Suitable for intermediate mounting         Suitable for intermedi	Number of auxiliary contacts as normally open contact		0
Motor drive integrated         Motor drive integrated         No           Voltage release optional         Sol         No           Device construction         Sol         Bult-in device fixed built-in technique           Suitable for ground mounting         Sol         Sol           Suitable for front mounting 4-hole         No         No           Suitable for front mounting centre         No         No           Suitable for distribution board installation         No         No           Suitable for intermediate mounting         Sol         No           Colour control element         Sol         Sol           Type of control element         Sol         Sol           Type of electrical connection of main circuit         Sol         Sol           Buge of protection (IP), front side         Sol         Sol	Number of auxiliary contacts as change-over contact		0
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         Yes           Type of electrical connection of main circuit         Yes           Built-in device fixed built-in technique         No           Type of electrical connection of main circuit         Yes           Built for distribution (IP), front side         Yes	Motor drive optional		No
Device constructionBills in device fixed built-in techniqueSuitable for ground mountingYesSuitable for front mounting centreNoSuitable for fixed built-in techniqueNoSuitable for fixed built-in techniqueNoSuitable for fixed built-in techniqueNoSuitable for fixed built-in techniqueNoSuitable for distribution board installationNoSuitable for intermediate mountingNoSuitable for intermediate mountingNoColour control elementSuitableType of control elementSuitableInterlockableYesType of electrical connection of main circuitSuitableUp of electrical connection (IP), front sideSuitableInterlockableInterlockableInterlockableSuitableInterlockableSuitableSuitable for intervenciationSuitableSuitable for	Motor drive integrated		No
Suitable for ground mounting       Mo         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       No         Type of control element       Suitable         Type of electrical connection of main circuit       Suitable         Buge of protection (IP), front side       Intermediate	Voltage release optional		No
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       No         Type of control element       Grey         Interlockable       Yes         Type of electrical connection of main circuit       Section of main circuit         Degree of protection (IP), front side       Section of main circuit	Device construction		Built-in device fixed built-in technique
Suitable for front mounting centre       No         Suitable for distribution board installation       No         Suitable for intermediate mounting       No         Colour control element       No         Type of control element       Grey         Interlockable       Yes         Type of electrical connection of main circuit       Screw connection         Degree of protection (IP), front side       Image: Screw connection of main circuit	Suitable for ground mounting		Yes
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       Sciew connection         Degree of protection (IP), front side       Image: Sciew connection of main circuit	Suitable for front mounting 4-hole		No
Suitable for intermediate mounting       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       Image: Screw connection	Suitable for front mounting centre		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     Image: Screw connection	Suitable for distribution board installation		No
Type of control element     Long turning handle       Interlockable     Yes       Type of electrical connection of main circuit     Construction       Degree of protection (IP), front side     Image: Construction of main circuit	Suitable for intermediate mounting		No
Interlockable Yes Type of electrical connection of main circuit O G G G G G G G G G G G G G G G G G G	Colour control element		Grey
Type of electrical connection of main circuit     Screw connection       Degree of protection (IP), front side     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)

LU0801520 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	