## **DATASHEET - DDC-800/2-SK**



DC switch disconnector, 800 A, 2 pole, 1 N/O, 1 N/C, Without rotary handle and drive shaft, rear mounting



Part no. DDC-800/2-SK Catalog No. 6098951

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Delivery hindralli			
Product range			DC switch-disconnector Main switch maintenance switch
Part group reference			DDC
Stop Function			optional
			Without rotary handle and drive shaft
Information about equipment supplied			auxiliary contact fitted by user.
Number of poles			2 pole
Auxiliary contacts			
t .		N/0	1
7		N/C	1
Degree of Protection			IP20
Design			rear mounting
Rated uninterrupted current	Iu	Α	800
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	θ	°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	$U_{i}$	٧	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 <sub>u</sub>	Α	800
Note on rated uninterrupted current $\boldsymbol{!}_{\boldsymbol{u}}$			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	I <sub>e</sub>	Α	800
600 V	I <sub>e</sub>	Α	800
1000 V	I <sub>e</sub>	Α	800
Terminal capacities			
Solid		$\text{mm}^2$	2 x 240
Flat conductor connection with busbars		$mm^2$	2 x (50 x 5)
Terminal screw			M12
Tightening torque for terminal screw		Nm	28

## Design verification as per IEC/EN 61439

Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	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
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.
10.2.3.3Verification of resistanceofinsulatingmaterialstoabnormalheatandfireduetointernalelectriceffects			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 lobserved.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

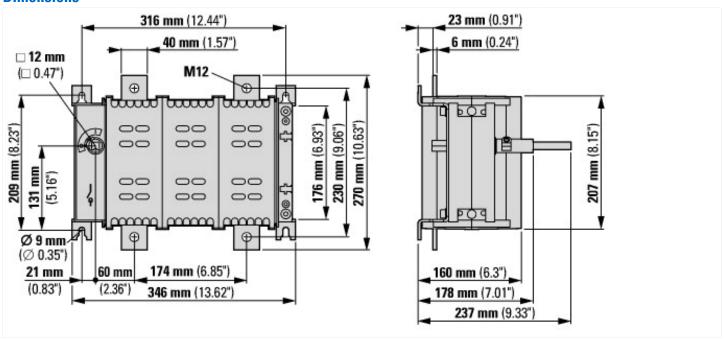
### **Technical data ETIM 7.0**

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

Version as main awinch         9         9           Version as maintanance-fevrice switch         6         9         No           Version as seringency stop installation         6         9         No           Version as sorvering switch         6         9         No           Number of switches         6         9         1           Max. rated operation voltage Ue AC         0         10         100           Rated permanent current at AC-22, 400 V         A         0           Rated permanent current at AC-23, 400 V         A         0           Rated permanent current at AC-23, 400 V         A         0           Rated permanent current at AC-23, 400 V         A         0           Rated permanent current at AC-23, 400 V         A         0           Rated permanent current at AC-23, 400 V         A         0           Rated permating power at AC-23, 400 V         A         0           Nomber of action short sine stopped action power at AC-23, 400 V         A         0           Nomber of action short site short sine stopped action power at AC-24, 400 V         A         0           Number of auxiliary cortacts as normally closed cortact         B         0         0           Number of auxiliary cortacts as normally cortact as normally	[AKF060013])		
Version as safety switch         Key File Stabilistion           Version as emergency stop installation         Key File Stabilistion           Version as reversing switch         Key File Stabilistion           Max. rated operation voltage Ue AC         V           Rated operation voltage Ue AC         V           Rated operation voltage Ue AC         A           Rated permanent current at AC-23, 400 V         A           Rated operation power at AC-23, 400 V         A	Version as main switch		Yes
Version as emergency stop installation         Molecular Control           Version as ewersing switch         10           Number of switches         V         0           Ruse and operation voltage Ue AC         V         000-1000           Rated operating voltage         V         0           Rated permanent current at AC-23,400 V         A         0           Rated operation power at AC-3,400 V         A         0           Conditioned at act short-circuit current lq         A         0           Conditioned at act short-circuit current lq         A         0           Number of poles         C         0         0           Number of auxiliary contacts as normally closed contact         C         0         0           Number of auxiliary contacts as change-over contact         C         0         0           Motor drive optional         C         0         0 <td< td=""><td>Version as maintenance-/service switch</td><td></td><td>Yes</td></td<>	Version as maintenance-/service switch		Yes
Version as reversing switch         Image: Comment of Switches         Image: Comment of Switches <t< td=""><td>Version as safety switch</td><td></td><td>No</td></t<>	Version as safety switch		No
Number of switches         Incomparison voltage Ue AC         V         0           Rated operation voltage Ue AC         V         1000-1000           Rated permanent current at AC-23.400 V         A         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-34.400 V         K         0           Rated short-time withstand current lew         K         0         0           Rated short-time withstand current lew         K         0         0           Switching power at AC-23, 400 V         K         0         0           Switching power at 400 V         K         0         0           Number of poles         K         0         0           Number of suikilary contacts as normally closed contact         K         0         0           Number of suikilary contacts as normally closed contact         K         0         0           Motor drive entional         K         0         0           Motor drive entional         K         0         0           Valtage relass as optional         K         0         0           Suitable for front mounting - Lhole         K	Version as emergency stop installation		No
Max. rated operation voltage Ue AC         V         000-1000           Rated operating voltage         V         1000-1000           Rated permanent current Iu         A         800           Rated permanent current at AC-24, 400 V         A         0           Rated operation power at AC-3, 400 V         kW         0           Rated short-time withstand current lcw         kW         2           Rated short-time withstand current lcw         kW         0           Switching power at AC-33, 400 V         kW         0           Switching power at 400 V         kW         0           Conditioned rated short-circuit current lq         kW         0           Number of poles         c         2         2           Number of auxiliary contacts as normally closed contact         c         0         0           Number of auxiliary contacts as change-over contact         c         0         0           Motor of rive pitude         c         0         0           Value or lease optional         c	Version as reversing switch		No
Rated operating voltage         V         1000-1000           Rated permanent current at AC-23, 400 V         A         800           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         WW         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         KA         0           Number of poles         KA         0           Number of auxiliary contacts as normally closed contact         KA         0           Number of auxiliary contacts as change-over contact         KA         0           Motor drive optional         KA         0         0           Motor drive integrated         KA         0         0           Voltage release optional         KA         No         0           Device construction         KA         Bull-in device fixed built-in technique           Suitable for front mounting 4-bole         KA         No           Suitable for front mounting 4-bole         KA	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-3, 400 V         A         0           Rated permanent current at AC-3, 400 V         IkW         0           Rated short-time withstand current lcw         IkW         0           Rated operation power at AC-23, 400 V         IkW         0           Switching power at 400 V         IkW         0           Conditioned rated short-circuit current lq         IkW         0           Number of poles         2         2           Number of auxiliary contacts as normally closed contact         0         0           Number of auxiliary contacts as normally open contact         0         0           Motor drive optional         No         0           Motor drive integrated         No         No           Voltage release optional         No         No           Device construction         No         No           Suitable for ground mounting         No         No           Suitable for front mounting entire         No         No           Suitable for finat mediate mounting         No         No           Suitable for intermediate mounting         No	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         W         0           Rated operation power at AC-3, 400 V         W         0           Rated operation power at AC-23, 400 V         KA         25           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 poles         P         2           Number of auxiliary contacts as normally closed contact         O         0           Number of auxiliary contacts as change-over contact         O         No           Motor drive optional         P         No         No           Motor drive integrated         P         No         No           Voltage release optional         P         Built-in device fixed built-in technique         P           Suitable for ground mounting         P         W         No           Suitable for front mounting 4-hole         P         No         No           Suitable for intermediate mounting         P         No         No           Suitable for intermediate mounting         P         No         No	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         kA         25           Rated short-dime 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         kA         0           Number of poles         2         2           Number of auxiliary contacts as normally closed contact         0         0           Number of auxiliary contacts as change-over contact         0         0           Motor drive integrated         No         No           Motor drive integrated         No         No           Voltage release optional         No         No           Device construction         Suitable for ground mounting         Yes         No           Suitable for front mounting 4-hole         No         No           Suitable for intermediate mounting         No         No           Suitable for intermediate mounting         No         No           Colour control element         No         No           Type of clotrol element	Rated permanent current lu	Α	800
Rated operation power at AC-3,400 V         kW         0           Rated short-time withstand current lcw         kA         25           Rated operation power at AC-23,400 V         kW         0           Switching power at 400 V         kW         0           Conditioned rated short-circuit current lq         kA         0           Number of poles         A         0           Number of poles         A         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           Voltage release optional         No           Suitable for ground mounting         Yes           Suitable for front mounting 4-hole         No           Suitable for front mounting eartre         No           Suitable for distribution board installation         No           Suitable for distribution board installation         No           Suitable for fort mounting eartre         No           Suitable for fort mounting eartre         No           Suitable for fort mounting eartre         No           Suitable for	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 closed contact  Number of auxiliary contacts as normally popen contact  Number of auxiliary contacts as normally popen contact  Number of auxiliary contacts as normally popen contact  Motor drive integrated  Voltage release optional  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting 4-hole  Suitable for intermediate mounting  Suitable for intermediate mounting  Culcular 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 Iq  Number of poles  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  Motor drive optional  Motor drive integrated  Voltage release optional  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for front mounting outre  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	Rated operation power at AC-3, 400 V	kW	0
Switching power at 400 V  Conditioned rated short-circuit current Iq  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  Notor drive optional  Motor drive integrated  Voltage release optional  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting entre  Suitable for first 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  MOTOR  WWW  O  O  O  O  O  O  O  O  O  O  O	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         0         0           Number of auxiliary contacts as normally open contact         0         0           Motor drive optional         No         0           Motor drive integrated         No         0           Voltage release optional         No         0           Device construction         Built-in device fixed built-in technique         1           Suitable for ground mounting         Yes         No           Suitable for front mounting 4-hole         No         No           Suitable for firent mounting centre         No         No           Suitable for distribution board installation         No         No           Suitable for intermediate mounting         No         No           Colour control element         Other         No           Type of control element         None         None           Interlockable         No         Screw connection           Eyes of control element         None         None           Type of electrical connection of main circuit         Screw connection           Degree of protection (IP), front side </td <td>Rated operation power at AC-23, 400 V</td> <td>kW</td> <td>0</td>	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 No No Notor drive optional Notor drive integrated No No Voltage release optional No Device construction Suitable for ground mounting Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting e-hole Suitable for intermediate mounting Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element No No Suitable for intermediate mounting Colour 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  No  Motor drive optional  Motor drive integrated  No  No  Voltage release optional  Device 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 intermediate mounting  Colour control element  Type of control element  Type of control element  Interlockable  No  Screw connection  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  Votage release optional  No  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for intermediate mounting  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Degree of protection (IP), front side  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  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 intermediate mounting  Colour control element  Type of control element  No  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       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       Other         Type of control element       None         Interlockable       No         Type of electrical connection of main circuit       Screw connection         Degree of protection (IP), front side       IP20	Number of auxiliary contacts as normally open contact		0
Motor drive integrated  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  Degree of protection (IP), front side  No  No  No  No  No  Screw connection  No  Screw connection	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 entre  Suitable for distribution board installation  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Degree of protection (IP), front side  No  Built-in device fixed built-in technique  No  No  No  No  No  No  No  No  Suitable for intermediate mounting  No  Screw connection  IP20	Motor drive optional		No
Device construction  Built-in device fixed built-in technique  Yes  Suitable for ground mounting 4-hole  No  Suitable for front mounting centre  No  Suitable for distribution board installation  Suitable for intermediate mounting  No  Colour control element  Type of control element  Noe  Type of electrical connection of main circuit  Degree of protection (IP), front side  Built-in device fixed built-in technique  No  No  No  No  Suitable for ground mounting 4-hole  No  No  Suitable for front mounting centre  No  No  Suitable for distribution board installation  No  Suitable for intermediate mounting  No  Suitable for intermediate mounting  No  Suitable for intermediate mounting  No  Suitable for distribution board installation  No  Suitable for distribution board installation  No  Suitable for front mounting 4-hole  No  Suitable for distribution board installation  No  Suitable for distribution board installation  No  Suitable for front mounting 6-hole  No  Suitable for distribution board installation  No  Suitable for distribution board in	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 No Type of electrical connection of main circuit Degree of protection (IP), front side  No  Yes No No No No No No Suitable for intermediate mounting No Other No Screw connection IP20	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  No  No  No  Screw connection  IP20	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  Type of control element  Interlockable  No Type of electrical connection of main circuit  Degree of protection (IP), front side  No  No  No  No  IP20	Suitable for ground mounting		Yes
Suitable for distribution board installation  No 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 Interlockable  IP20	Suitable for front mounting 4-hole		No
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  No  IP20	Suitable for front mounting centre		No
Colour control element  Type of control element  Interlockable  No  Type of electrical connection of main circuit  Degree of protection (IP), front side  Other  None  No  Screw connection  IP20	Suitable for distribution board installation		No
Type of control element  Interlockable  No  Type of electrical connection of main circuit  Degree of protection (IP), front side  No  IP20	Suitable for intermediate mounting		No
Interlockable No Type of electrical connection of main circuit Screw connection  Degree of protection (IP), front side IP20	Colour control element		Other
Type of electrical connection of main circuit  Degree of protection (IP), front side  Screw connection  IP20	Type of control element		None
Degree of protection (IP), front side	Interlockable		No
3	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

#### **Dimensions**



### **Additional product information (links)**

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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