

Switch-disconnector, 3 pole, 1000 A, without protection, IEC, Fixed

Powering Business Worldwide[™]

INX16B3-10F-1 Part no. Article no. 183449

Delivery programme

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Product range			Air circuit-breakers/switch-disconnectors
Product range			Open switch-disconnectors
Current Range			Up to 4000 A
Protective function			without protection
Installation type			Fixed
Construction size			INX16
Release system			without releases
Standard/Approval			IEC
Number of poles			3 pole
Degree of Protection			IP31 with door seals, IP55 with protective cover
			optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current	$I_n = I_u$	Α	1000
Bemessungskurzschlusseinschaltvermögen bis 440V/690V 42/42	I _{cm}	kA	88
Bemessungskurzzeitstromfestigkeit t = 1 s	I _{cw}	kA	42

Technical data

General Standards			IEC/EN 60947
			IEG/EN 0034/
Ambient temperature			
Storage	8	°C	-40 - +70
Ambient temperature		°C	-25 - +70
Mounting position			30° 30° 30°
Utilization category			В
Degree of Protection			IP31 with door seals, IP55 with protective cover
Direction of incoming supply			as required
Main conducting paths			
Rated current = rated uninterrupted current	$I_n = I_u$	Α	1000
Rated uninterrupted current at 50 °C	I _u	Α	1000
Rated uninterrupted current at 60 °C	l _u	Α	1000
Rated uninterrupted current at 70 °C	l _u	Α	1000
Rated impulse withstand voltage	U _{imp}	V AC	12000
Rated operational voltage	U _e	V AC	690
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	٧	1000
Switching capacity			
Rated short-circuit making capacity	I _{cm}		
up to 440 V 50/60 Hz	I _{cm}	kA	88
up to 690 V 50/60 Hz	I _{cm}	kA	88
Rated short-time withstand current 50/60 Hz			
Rated short-time withstand current (t=1s)	I _{cw}	kA	42
Operating times			
Closing delay via spring release		ms	25

Total opening delay via shunt release		ms	25
Total opening delay via undervoltage release		ms	50
Lifespan		S	
Lifespan, mechanical	Switching cycles (ON/ OFF)		12500
Lifespan, mechanical with maintenance	Switching cycles (ON/ OFF)		25000.
Lifespan, electrical	Switching cycles (ON/ OFF)		10000
Lifespan, electrical with maintenance	Switching cycles (ON/ OFF)		20000.
Maximum operating frequency		Ops./h	
Maximum operating frequency	Operations/h		60
Heat dissipation at rated current I_n			
Fixed mounting		W	92
Terminal capacities			
Copper bar			

Copper bar		
Fixed mounting		
Black	mm	2 x 5 x 60
		These are values used in separate switchgear. The actual values will depend on the temperature around the circuit-breaker, which is influenced by the ambient temperature, the degree of protection (IP), the mounting height, the partitions, and any external ventilation. Depending on the specific switchgear design, this may result in derating, which can then be compensated for by increasing the cross-sectional area. Temperature rise tests in the specific switchgear can provide specific and detailed information.
		Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

cian verification as ner IFC/FN 61/39

Design verification as per IEC/EN 61439			
echnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	1000
Equipment heat dissipation, current-dependent	P _{vid}	W	92
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
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 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 6.0

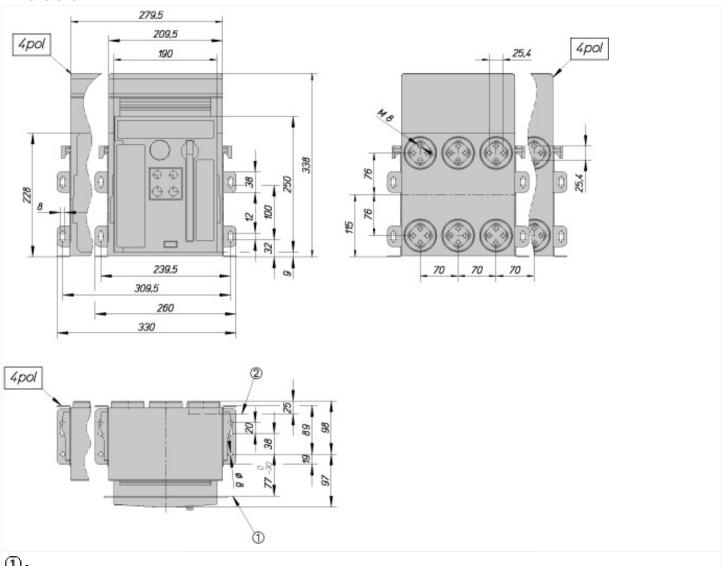
Degree of protection (IP), front side

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)
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Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03 [AKF060010]) Yes Version as main switch Version as maintenance-/service switch No Version as safety switch No Version as emergency stop installation No Version as reversing switch No Max. rated operation voltage Ue AC 690 Rated operating voltage ٧ 690 - 690 1000 Rated permanent current lu Α Rated permanent current at AC-21, 400 V 0 Α Rated operation power at AC-3, 400 V kW 0 Rated short-time withstand current lcw kA 42 Rated operation power at AC-23, 400 V kW 0 Switching power at 400 $\rm V$ kW 0 Conditioned rated short-circuit current Iq kΑ 88 Number of poles 3 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 2 Number of auxiliary contacts as change-over contact Motor drive optional Yes Motor drive integrated No Voltage release optional Yes Device construction Built-in device fixed built-in technique Suitable for ground mounting Yes Suitable for front mounting 4-hole No No Suitable for front mounting center Suitable for distribution board installation Yes Suitable for intermediate mounting No Green Colour control element Type of control element Push button Interlockable Yes Type of electrical connection of main circuit Rail connection

IP31

Dimensions



U Door

(2) Contact surface flange terminal