



INX16B4-08F-1 183645



#### **Delivery programme**

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			4 pole
Degree of Protection			IP31 with door seals, IP55 with protective cover
			optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current	$I_n = I_u$	А	800
Bemessungskurzschlusseinschaltvermögen bis 440V/690V 42/42	I <sub>cm</sub>	kA	88
Bemessungskurzzeitstromfestigkeit t = 1 s	I <sub>cw</sub>	kA	42

## **Technical data**

General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	9	°C	-40 - +70
Ambient temperature		°C	-25 - +70
Mounting position			30° 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	$I_n = I_u$	А	800
Rated uninterrupted current at 50 °C	lu	А	800
Rated uninterrupted current at 60 °C	lu	А	800
Rated uninterrupted current at 70 °C	lu	А	800
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	12000
Rated operational voltage	Ue	V AC	690
Overvoltage category/pollution degree			111/3
Rated insulation voltage	Ui	V	1000
Switching capacity			
Rated short-circuit making capacity	l <sub>cm</sub>		
up to 440 V 50/60 Hz	I <sub>cm</sub>	kA	88
up to 690 V 50/60 Hz	I <sub>cm</sub>	kA	88
Rated short-time withstand current 50/60 Hz			
Rated short-time withstand current (t=1s)	I <sub>cw</sub>	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 In			
Fixed mounting		W	59
Weight			
Fixed mounting			
4-pole		kg	22
Terminal capacities			
Copper bar			
Fixed mounting			
Black		mm	2 x 5 x 50
			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.

# Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	800
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	59
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
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 6.0**

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

ectric engineering, automation, process control engineering / Low-voltage switch technology / ( \KF060010])	)ff-load sv	witch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03
ersion as main switch		Yes
ersion as maintenance-/service switch		No
ersion as safety switch		No
ersion as emergency stop installation		No
ersion as reversing switch		No
lax. rated operation voltage Ue AC	V	690
ated operating voltage	V	690 - 690
ated permanent current lu	А	800
ated permanent current at AC-21, 400 V	A	0
ated operation power at AC-3, 400 V	kW	0
ated short-time withstand current lcw	kA	42
ated operation power at AC-23, 400 V	kW	0
witching power at 400 V	kW	0
onditioned rated short-circuit current Iq	kA	88
umber of poles		4
umber of auxiliary contacts as normally closed contact		0
umber of auxiliary contacts as normally open contact		0
umber of auxiliary contacts as change-over contact		2
lotor drive optional		Yes
lotor drive integrated		No
oltage release optional		Yes
evice construction		Built-in device fixed built-in technique
uitable for ground mounting		Yes
uitable for front mounting 4-hole		No
uitable for front mounting center		No
uitable for distribution board installation		Yes
uitable for intermediate mounting		No
olour control element		Green
/pe of control element		Push button
terlockable		
		Yes
/pe of electrical connection of main circuit		

### Dimensions

