DATASHEET - INX16B4-06F-1

Switch-disconnector, 4 pole, 630A, without protection, IEC, Fixed

Part no.	**INX16B4-06F-1**
	183644
EL Number (Norway)	**4398181**

General specifications

Product name	Eaton Moeller series IZMX/INX switch-disconnector
Part no.	INX16B4-06F-1
EAN	4015081793808
Product Length/Depth	584 millimetre
Product height	597 millimetre
Product width	521 millimetre
Product weight	23.37 kilogram
Compliances	RoHS conform IEC IEC/EN 60947
Product Tradename	IZMX/INX
Product Type	Switch-disconnector
Product Sub Type	None

Delivery program

Type	Open switch-disconnector Air circuit breakers/switch-disconnector
Number of poles	Four-pole
Amperage Rating	630 A
Release system	Without releases
Features	Version as maintenance-/service switch Version as main switch Motor drive optional
Special features	Terminal capacity hint: 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. Optionally fittable by user with comprehensive accessories
Frame	INX16
Suitable for	Ground mounting Distribution board installation Intermediate mounting

Technical Data - Electrical

Voltage rating at AC	690 V AC
Rated operating voltage (Ue) - min	690 V
Rated operating voltage (Ue) - max	690 V
Rated operating voltage (Ue) at AC - max	690 V
Rated insulation voltage (Ui)	1000 V
Rated impulse withstand voltage (Uimp)	12 kV AC
Rated uninterrupted current (Iu)	630 A
Rated uninterrupted current (Iu) at 50°C	630 A
Rated uninterrupted current (Iu) at 60°C	630 A
Rated uninterrupted current (Iu) at 70°C	630 A
Rated conditional short-circuit current (Iq)	88 kA
Rated permanent current at AC-21, 400 V	0 A
Rated permanent current at AC-23, 400 V	630 A
Rated short-time withstand current (Icw)	42 kA
Rated short-time withstand current (t = 1 s)	42 kA
Rated short-circuit making capacity up to 440 V, 50/60 Hz	88 kA
Rated short-circuit making capacity up to 690 V, 50/60 Hz	88 kA

Rated operating power at AC-3, 400 V	0 kW
Rated operating power at AC-23, 400 V	0 kW
Switching power at 400 V	0 kW
Closing delay via spring release	25 ms
Electrical connection type of main circuit	Rail connection
Number of standard mechanical operations per hour - max	60
Actuator type	Push button
Utilization category	B
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	20000 operations (switching cycles ON/OFF, with maintenance) 10000 operations (switching capacity)
Direction of incoming supply	As required

Technical Data - Mechanical

Device construction	Built-in device fixed built-in technique
Mounting Method	Fixed
Degree of protection	IP55 with protective cover IP31 with door seals
Degree of protection (front side)	IP31
Protection	None
Number of auxiliary contacts (change-over contacts)	2
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Number of switches	1
Position of connection for main current circuit	Back side
Weight of fixed mounting version (4-pole)	22 kg
Actuator color	Green
Lifespan, mechanical	25000 operations (switching capacity, with maintenance) 12500 switching cycles (ON/OFF)

Technical Data - Mechanical - Terminals

Terminal capacity (copper bar)	5 mm x 50 mm (2x) for fixed mounting (black)

Design verification as per IEC/EN 61439 - technical data

Rated operational current for specified heat dissipation (In)	630 A
Equipment heat dissipation, current-dependent	36 W
Heat dissipation at rated current with fixed mounting	36 W
Ambient operating temperature details	-20 °C - 70 °C
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Ambient storage temperature - min	-40 °C
Ambient storage temperature - max	70 °C

Design verification as per IEC/EN 61439

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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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.

Additional information

Functions		Interlockable Voltage release optional

Technical data ETIM 9.0

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

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])

Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		No
Version as emergency stop installation		No
Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current Iu	A	630
Rated permanent current at AC-23, 400 V	A	630
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 Icw	kA	42
Rated operation power at AC-23, 400 V	kW	0
Switching power at 400 V	kW	0
Conditioned rated short-circuit current Iq	kA	88
Number of poles		4
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		2
Motor drive optional		Yes
Motor drive integrated		No
Voltage release optional		Yes
Device construction		Built-in device fixed built-in technique
Suitable for floor mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		Yes
Suitable for intermediate mounting		Yes
Colour control element		Green
Type of control element		Push button
Interlockable		Yes
Type of electrical connection of main circuit		Rail connection
With pre-assembled cabling		No
Degree of protection (IP), front side		IP31
Degree of protection (NEMA)		
Width	mm	521
Height	mm	597
Depth	mm	584

Width in number of modular spacings				18

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