Switch-disconnector, 3 pole, 2000A, without protection, IEC, Fixed



Part no. INX40N3-20F-1

184052

EL Number 4398414

(Norway)

General specifications		
Product name	Eaton Moeller s	eries IZMX/INX - ACB
Part no.	INX40N3-20F-1	
EAN	4015081795918	
Product Length/Depth	584 millimetre	
Product height	597 millimetre	
Product width	521 millimetre	
Product weight	45 kilogram	
Compliances	IEC/EN 60947 IEC RoHS conform	
Product Tradename	IZMX/INX	
Product Type	ACB	
Product Sub Type	None	
Delivery program		
Туре	Air circuit breal Open switch-di	kers/switch-disconnector sconnector
Number of poles	Three-pole	
Amperage Rating	2000 A	
Release system	Without release	es
Features	Motor drive opt Version as mair Version as mair	
Special features	Terminal capac values will depo influenced by th height, the part switchgear des for by increasin	ble by user with comprehensive accessories ity hint: These are values used in separate switchgear. The actual and on the temperature around the circuit breaker, which is ne ambient temperature, the degree of protection (IP), the mounting itions, and any external ventilation. Depending on the specific ign, this may result in derating, which can then be compensated g the cross-sectional area. Temperature rise tests in the specific provide specific and detailed information.
Frame	INX40	
Suitable for	Distribution boa Ground mountin Intermediate m	ng
Used with	Open switch-di Air circuit breal	sconnector kers/switch-disconnector
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)	2000 A	
Rated uninterrupted current (Iu) at 50°C	2000 A	
Rated uninterrupted current (Iu) at 60°C	2000 A	
Rated uninterrupted current (Iu) at 70°C	2000 A	
Rated conditional short-circuit current (Iq)	187 kA	
Rated permanent current at AC-21, 400 V	0 A	
Rated permanent current at AC-23, 400 V	2000 A	
Rated short-time withstand current (Icw)	85 kA	
Rated short-time withstand current (t = 1 s)	85 kA	

Rated short-circuit making capacity up to 440 V, 50/60 Hz	187 kA
Rated short-circuit making capacity up to 690 V, 50/60 Hz	166 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	35 ms
Electrical connection type of main circuit	Rail connection
Number of standard mechanical operations per hour - max	60
Actuator type	Push button
Utilization category	В
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	8000 operations (switching capacity) 16000 operations (switching cycles ON/OFF, with maintenance)
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 (3-pole)	43 kg
Actuator color	Green
Lifespan, mechanical	10000 switching cycles (ON/OFF) 20000 operations (switching capacity, with maintenance)
Technical Data - Mechanical - Terminals	2000 operations (switching depatity, was manifestative)
Terminal capacity (copper bar)	80 mm x 10 mm (2x) for fixed mounting (black)
Design verification as per IEC/EN 61439 - technical data	oo iiiii x to iiiii (Ex) to iixoo iiodiidiig (bidok)
	2000 A
Rated operational current for specified heat dissipation (In)	2000 A
Equipment heat dissipation, current-dependent	150 W
Heat dissipation at rated current with fixed mounting	150 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	Voltage release optional Interlockable

Technical data ETIM 9.0

Degree of protection (IP), front side

Degree of protection (NEMA)

Width

ow-voltage industrial components (EG000017) / Switch disconnector (low voltage) (EC000216) lectric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-2AKF060018]) ersion as main switch ersion as maintenance-/service switch ersion as safety switch No	7-37-14-03
AKF060018]) ersion as main switch ersion as maintenance-/service switch ersion as safety switch No	7-37-14-03
ersion as maintenance-/service switch Yes ersion as safety switch No	
ersion as safety switch No	
vicion de amarganes etan installation	
ersion as emergency stop installation No	
ersion as reversing switch No	
umber of switches 1	
fax. rated operation voltage Ue AC V 690	
ated operating voltage V 690 - 690	
ated permanent current lu A 2000	
ated permanent current at AC-23, 400 V A 2000	
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 85	
ated operation power at AC-23, 400 V kW 0	
witching power at 400 V kW 0	
onditioned rated short-circuit current Iq kA 187	
lumber of poles 3	
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	
Notor drive optional Yes	
No No	
oltage release optional Yes	
evice construction Built-in device fixed built-in technique	
uitable for floor mounting Yes	
uitable for front mounting 4-hole No	
uitable for front mounting centre No	
uitable for distribution board installation	
uitable for intermediate mounting Yes	
olour control element Green	
ype of control element Push button	
nterlockable Yes	
ype of electrical connection of main circuit Rail connection	
Vith pre-assembled cabling No	

IP31

521

Height	mm	597
Depth	mm	584
Width in number of modular spacings		24