## DATASHEET - INX40N3-08F-1



Switch-disconnector, 3 pole, 800A, without protection, IEC, Fixed



(Norway)

INX40N3-08F-1 184048

EL-Nummer 4398410



### **Delivery program**

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			INX40
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	$I_n = I_u$	А	800
Rated short-circuit making capacity up to 440V/690V 42/42	I <sub>cm</sub>	kA	187
Rated short-time withstand current t =1 s	I <sub>cw</sub>	kA	85
Rated short-time withstand current t =3 s	l <sub>cw</sub>	kA	66

# **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	Iu	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	U <sub>e</sub>	V AC	690
Overvoltage category/pollution degree			111/3
Rated insulation voltage	Ui	V	1000
Switching capacity			
Rated short-circuit making capacity	I <sub>cm</sub>		
up to 440 V 50/60 Hz	I <sub>cm</sub>	kA	187
up to 690 V 50/60 Hz	I <sub>cm</sub>	kA	166
Operating times			
Closing delay via spring release		ms	30

Switching cycles (ON/ OFF) Switching cycles (ON/ OFF) Switching cycles (ON/ OFF)	ms S	35 40 12500 25000.
cycles (ON/ OFF) Switching cycles (ON/ OFF) Switching cycles (ON/		12500
cycles (ON/ OFF) Switching cycles (ON/ OFF) Switching cycles (ON/		12500
cycles (ON/ OFF) Switching cycles (ON/ OFF) Switching cycles (ON/	S	
cycles (ON/ OFF) Switching cycles (ON/ OFF) Switching cycles (ON/		
cycles (ON/ OFF) Switching cycles (ON/		25000.
cycles (ON/		
017)		10000
Switching cycles (ON/ OFF)		20000.
	Ops./h	
Operations/h		60
	W	25
	kg	43
	mm	1 x 60 x 10
		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.
	Operations/h	Operations/h Ops./h W Kg

## Design verification as per IEC/EN 61439

Design vernication as per 120/214 01455			
Technical data for design verification			
Rated operational current for specified heat dissipation	I <sub>n</sub>	А	800
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	25
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 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 [AKF060013])

sion as main switch and so in a smain switch and so in a smain tenance-/service switch and so in a smain tenance-/service switch as a safety switch and so in a smargency stop installation as emergency stop installation as emergency stop installation as reversing switch and permanent current lu AC-23, 400 V and permanent current at AC-	/	Yes No No No 690 690 - 690
sion as safety switch sion as emergency stop installation sion as reversing switch her of switches c. rated operation voltage Ue AC ed operating voltage ed permanent current lu	/ /	No No 690
sion as emergency stop installation sion as reversing switch chose source sourc	/	No No 690
sion as reversing switch hber of switches c. rated operation voltage Ue AC operating voltage v ded opermanent current lu	/ /	No 690
nber of switches V c. rated operation voltage Ue AC V ed operating voltage V ed permanent current lu A	/ /	690
c. rated operation voltage Ue AC       v     v       ed operating voltage     v       ed permanent current lu     A	/ A	
ed operating voltage V ed permanent current lu A	/ A	
ed permanent current lu A	A B	690 - 690
ed permanent current at AC-23, 400 V A		800
	4	
ed permanent current at AC-21, 400 V A	4	0
ed operation power at AC-3, 400 V kV	W	0
ed short-time withstand current Icw kA	A	85
ed operation power at AC-23, 400 V kV	W	0
tching power at 400 V kV	W	0
ditioned rated short-circuit current Iq kA	A	187
nber of poles	;	3
nber of auxiliary contacts as normally closed contact		0
nber of auxiliary contacts as normally open contact	1	0
nber of auxiliary contacts as change-over contact		2
or drive optional	,	Yes
or drive integrated		No
age release optional	,	Yes
ice construction		Built-in device fixed built-in technique
able for ground mounting		Yes
able for front mounting 4-hole		No
able for front mounting centre		No
able for distribution board installation		Yes
able for intermediate mounting		No
pur control element		Green
e of control element		Push button
rlockable		Yes
e of electrical connection of main circuit		Rail connection
ree of protection (IP), front side		IP31
ree of protection (NEMA)		



