## **DATASHEET - INX40N3-32W-1**



Switch-disconnector, 3 pole, 3200A, without protection, IEC, Withdrawable



Part no. INX40N3-32W-1 Catalog No. 184070

4398432

**EL-Nummer** (Norway)

### **Delivery program**

Bontory 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			Withdrawable
			Cassette must be separately ordered.
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	$I_n = I_u$	Α	3200
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	I <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	$I_n = I_u$	Α	3200	
Rated uninterrupted current at 50 °C	Iu	Α	3200	
Rated uninterrupted current at 60 °C	Iu	Α	3200	
Rated uninterrupted current at 70 °C	Iu	Α	3200	
Rated impulse withstand voltage	$U_{imp}$	V AC	12000	
Rated operational voltage	U <sub>e</sub>	V AC	690	
Overvoltage category/pollution degree			III/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
Total opening delay via shunt release		ms	35
Total opening delay via undervoltage release		ms	40
Lifespan		S	
C	Switching cycles (ON/ OFF)		10000
C	Switching cycles (ON/ OFF)		20000.
C	Switching cycles (ON/ OFF)		5000
C	Switching cycles (ON/ OFF)		10000.
Maximum operating frequency		Ops./h	
Maximum operating frequency	Operations/h		60
Heat dissipation at rated current I <sub>n</sub>			
Withdrawable units (switch with cassette)		W	560
Weight			
Withdrawable			
3-pole		kg	66
Cassette			
3 pole		kg	29
Terminal capacities			
Copper bar			
Withdrawable units			
Black		mm	3 x 80 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, an 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.

# Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipation In A 3200  Equipment heat dissipation, current-dependent P <sub>vid</sub> W 560  Operating ambient temperature min. °C -25  Operating ambient temperature max. °C 70	- co.g.: 1011110 a.i.o. a.o por 120, 211 o.i.o.			
Equipment heat dissipation, current-dependent  Operating ambient temperature min.  Operating ambient temperature max.  CC 25  Operating ambient temperature max.  **C 70  EC/EN 61439 design verification  10.2 Strength of materials and parts  10.2.2 Corrosion resistance  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects  10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of ASSEMBLIES  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections	Technical data for design verification			
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	10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductors Is the panel builder's responsibility.	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
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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])

	Yes
	No
	No
	No
	No
V	690
V	690 - 690
Α	3200
Α	
Α	0
kW	0
kA	85
kW	0
kW	0
kA	187
	3
	0
	0
	2
	Yes
	No
	Yes
	Built-in device slide-in technique (withdrawable)
	Yes
	No
	No
	Yes
	No
	Green
	Push button
	Yes
	Rail connection
	IP31
	V A A A kW kA kW

# **Dimensions**



