

Switch-disconnector, 3p, 1250 A, fixed

Part no. Article no. Catalog No. INX40B3-12F 150047 RES6133BSW0NMNN2MN1X



## **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			IP20, IP55 with protective cover, IP41 door sealing frame
			optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current	$I_n = I_u$	А	1250
Bemessungskurzschlusseinschaltvermögen bis 440V/690V 42/42	I <sub>cm</sub>	kA	145
Bemessungskurzzeitstromfestigkeit t = 1 s	I <sub>cw</sub>	kA	66
Bemessungskurzzeitstromfestigkeit t = 3 s	I <sub>cw</sub>	kA	53

## **Technical data**

		IEC/EN 60947
9	°C	-40 - +70
	°C	-25 - +70
		30° 30° 30° 30°
		В
		IP20, IP55 with protective cover, IP41 door sealing frame
		as required
$I_n = I_u$	A	1250
l <sub>u</sub>	Α	1250
lu	Α	1250
I <sub>u</sub>	A	1250
U <sub>imp</sub>	V AC	12000
U <sub>e</sub>	V AC	690
		111/3
Ui	V	1000
I <sub>cm</sub>		
l <sub>cm</sub>	kA	145
l <sub>cm</sub>	kA	145
I <sub>cw</sub>	kA	66
I <sub>cw</sub>	kA	53
	ms	35
	In = Iu Iu Iu Uimp Ue Ui Icm Icm Icm	°C   In = Iu A   Iu KA   Iump VAC   Iump KA   Iump KA

Total opening delay via shunt release		ms	22
Total opening delay via undervoltage release		ms	37
Maximum operating frequency		Ops./h	
Maximum operating frequency	Operations/h		60
Heat dissipation at rated current In			
Fixed mounting		W	90
Weight			
Fixed mounting			
3-pole		kg	43
4-pole		kg	56
Terminal capacities			
Copper bar			
Fixed mounting			
Black		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.

## Design verification as per IEC/EN 61439

Design vernication as per ieu/en 01455			
Technical data for design verification			
Rated operational current for specified heat dissipation	I <sub>n</sub>	А	1250
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	90
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
EC/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 b observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must b 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)	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@ss8.1-27-37-14-03 [AKF060010])			
Version as main switch		Yes	
Version as maintenance-/service switch		No	
Version as safety switch		No	
Version as emergency stop installation		No	
Version as reversing switch		No	
Max. rated operation voltage Ue AC	V	690	
Rated operating voltage	V	690 - 690	
Rated permanent current lu	А	1250	
Rated permanent current at AC-21, 400 V	А	0	
Rated operation power at AC-3, 400 V	kW	0	
Rated short-time withstand current lcw	kA	66	
Rated operation power at AC-23, 400 V	kW	0	
Switching power at 400 V	kW	0	
Conditioned rated short-circuit current Iq	kA	144	
Number of poles		3	
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 ground mounting		Yes	
Suitable for front mounting 4-hole		No	
Suitable for front mounting center		No	
Suitable for distribution board installation		Yes	
Suitable for intermediate mounting		No	
Colour control element		Green	
Type of control element		Push button	
Interlockable		Yes	
Type of electrical connection of main circuit		Rail connection	
Degree of protection (IP), front side		IP20	