



184057 INX40B3-10W-1

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Product range

Air circuit-breakers/switch-disconnectors

Design verification as per IEC/EN 61439

Product range

Open switch-disconnectors

Ourrent Range Up to 4000 A

Technical data ETIM 7.0

Protective function without protection

Dimensions

Installation type Withdrawable

Cassette must be separately ordered.

Construction size INX40



Ambient temperature Storage [8] -40 - +70 °C

Ambient temperature Ambient temperature Mounting position 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 $[I_n = I_u]$ 1000 A

Rated uninterrupted current at 50 °C [lu] 1000 A

Rated uninterrupted current at 60 °C [lu] 1000 A

Rated uninterrupted current at 70 °C [lu] 1000 A

Rated impulse with stand voltage $[U_{imp}]$ 12000 V AC

Rated operational voltage $[U_e]$ 690 V AC

Overvoltage category/pollution degree 111/3

Rated insulation voltage [U] 1000 V

Switching capacity

Rated short-circuit making capacity [l_{cm}] up to 440 V 50/60 Hz [l_{cm}] 145 kA

Rated short-circuit making capacity [l_{cm}] up to 690 V 50/60 Hz [l_{cm}] 145 kA

Operating times Closing delay via spring release 30 ms

Operating times Total opening delay via shunt release 35 ms

Operating times
Total opening delay via undervoltage release
40 ms

Lifespan Lifespan, mechanical [Switching cycles (ONOFF)] 12500

Lifespan
Lifespan, mechanical with maintenance [Switching cycles (ONOFF)]
25000.

Lifespan Lifespan, electrical [Switching cycles (ONOFF)] 10000

Lifespan Lifespan, electrical with maintenance [Switching cycles (ONOFF)] 20000.

Maximum operating frequency [Operations/h] 60

Heat dissipation at rated current I_n Withdraw able units (switch with cassette) 100 W

Weight

Withdraw able 3-pole 60 kg

Cassette 3 pole 29 kg

Terminal capacities

Copper bar Withdraw able units Black 1 x 60 x 10 mm

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

Technical data for design verification

Rated operational current for specified heat dissipation [I_n] 1000 A

Equipment heat dissipation, current-dependent $[P_{id}]$ 100 W

Operating ambient temperature min. -25 °C

Operating ambient temperature max. +70 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatMeets the product standard's requirements.

10.2 Strength of materials and parts
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 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES Does not apply, since the entire switchgear needs to be evaluated.

10.4 Clearances and creepage distances Weets 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 Insulation properties 10.9.3 Impulse withstand voltage Is the panel builder's responsibility.

10.9 Insulation properties10.9.4 Testing of enclosures made of insulating materialIs 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

TECHNICAL DATA ETIM 7.0
Low-voltage industrial components (EG000017) / Switch disconnector (E0000216)
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])
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
Number of switches
Max. rated operation voltage Ue AC 690 V
Rated operating voltage 690 - 690 V
Rated permanent current lu 1000 A
Rated permanent current at AC-23, 400 V

Rated permanent current at AC-21, 400 V

Rated operation power at AC-3, 400 V 0 kW Rated short-time withstand current lcw 66 kA Rated operation power at AC-23, 400 V 0 kW Switching power at 400 V 0 kW Conditioned rated short-circuit current lq 144 kA Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as change-over contact Motor drive optional Yes Motor drive integrated No Voltage release optional Yes Device construction Built-in device slide-in technique (withdrawable)

Suitable for ground 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 No	
Colour control element Green	
Type of control element Push button	
Interlockable Yes	
Type of electrical connection of main circuit Pail connection	
Degree of protection (IP), front side IP31	
Degree of protection (NEVA)	

DIMENSIONS



□ Door



- □ Door
- ☐ Contact surface flange terminal







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