



INX16B4-12W-1

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Product range

Air circuit-breakers/switch-disconnectors

Design verification as

Product range

per IEC/EN 61439

Open switch-disconnectors

Technical data ETIM 7.0

Current Range Up to 4000 A

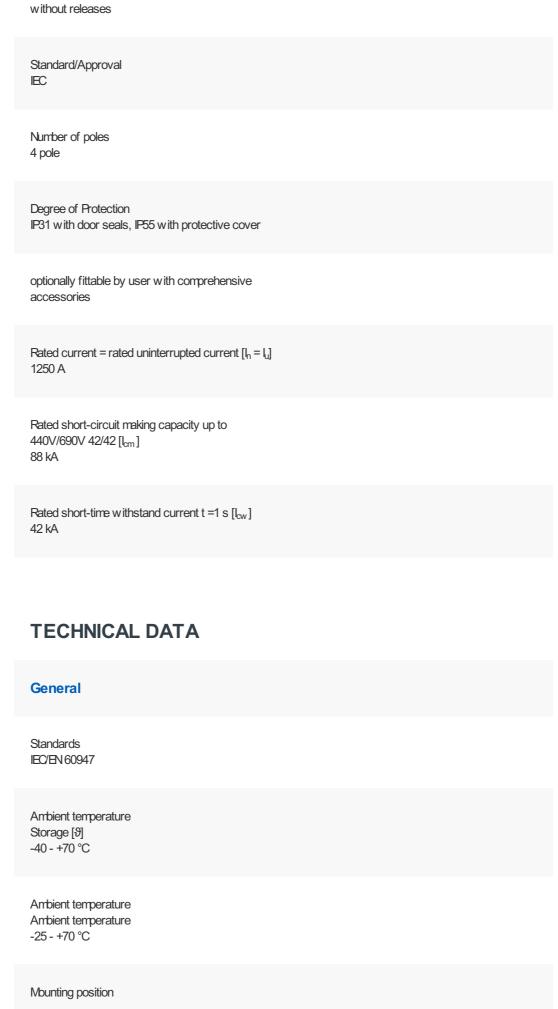
Dimensions

Protective function without protection

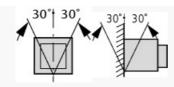
Installation type Withdraw able

Cassette must be separately ordered.

Construction size INX16



Release system



Utilization category

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 [$I_n = I_u$] 1250 A

Rated uninterrupted current at 50 $^{\circ}\text{C}\left[\text{I}_{\text{u}}\right]$ 1250 A

Rated uninterrupted current at 60 $^{\circ}$ C [I $_{u}$] 1250 A

Rated uninterrupted current at 70 $^{\circ}\text{C}\left[I_{u}\right]$ 1250 A

Rated impulse withstand voltage [U_{mp}] 12000 V AC

Rated operational voltage [U_e] 690 V AC

Overvoltage category/pollution degree III/3

Rated insulation voltage [U] 1000 V

Switching capacity

Rated short-circuit making capacity [I_{cm}]

up to 440 V 50/60 Hz [l_{cm}] 88 kA

Rated short-circuit making capacity [l_{cm}] up to 690 V 50/60 Hz [l_{cm}] 88 kA

Operating times Closing delay via spring release 25 ms

Operating times Total opening delay via shunt release 25 ms

Operating times Total opening delay via undervoltage release 50 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) 180 W

Weight

Withdrawable 4-pole 31 kg

Cassette 4 pole 21 kg

Terminal capacities

Copper bar Withdraw able units Black 2 x 5 x 80 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.

Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n] 1250 A

Equipment heat dissipation, current-dependent $[P_{id}]$ 180 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 parts10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatWeets 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
Weets 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 InscriptionsWeets 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 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 Insulation properties 10.9.3 Impulse withstand voltage Is the panel builder's responsibility.

10.9 Insulation properties 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.

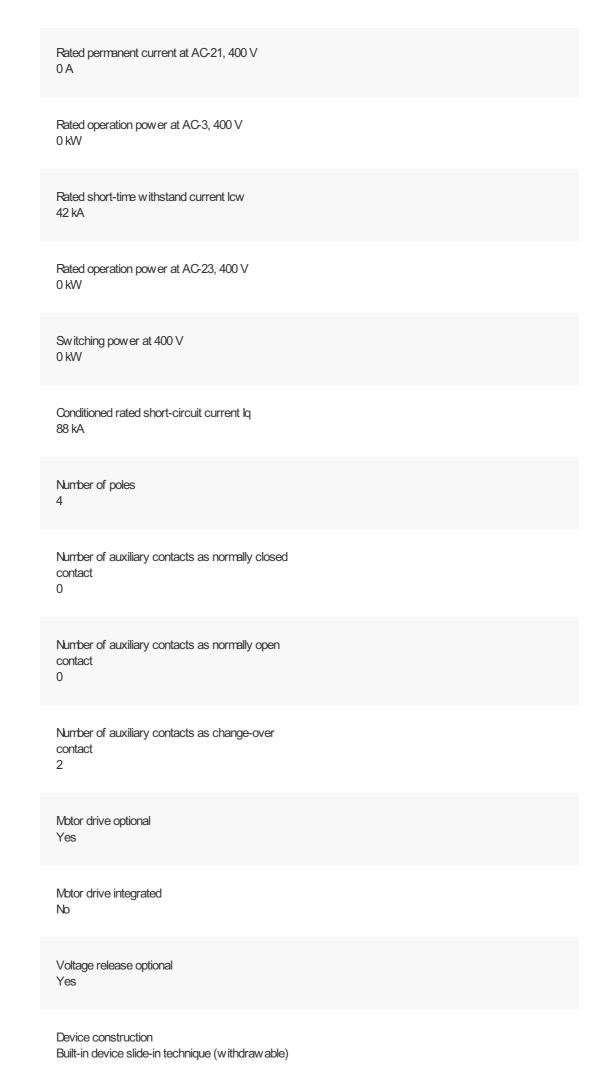
10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed.

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])
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 1250 A

Rated permanent current at AC-23, 400 V



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 Rail connection
Degree of protection (IP), front side IP31
Degree of protection (NEVA)

DIMENSIONS



□ Door

☐ Contact surface flange terminal







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