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Worldwide English



INX40B4-10F-1 - Switch-disconnector, 4 pole, 1000A, without protection, IEC, Fixed



184073 INX40B4-10F-1

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184073 INX40B4-10F-1

Switch-disconnector, 4 pole, 1000A, without protection, IEC, Fixed
EL-Nummer (Norway) 4398435

Open switch-disconnectors, Switch-disconnector, Number of poles 4 pole, Rated current = rated uninterrupted current 1000 A, Protective function without protection, Standard/Approval IEC, Installation type Fixed

- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Dimensions

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
4 pole
Degree of Protection
IP31 with door seals, IP55 with protective cover
optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current [$I_n = I_c$]
1000 A
Rated short-circuit making capacity up to 440V/690V 42/42 [I_{cm}]
145 kA
Rated short-time withstand current $t = 1$ s [I_{cw}]
66 kA
Rated short-time withstand current $t = 3$ s [I_{cw}]

53 kA

Technical data

General

Standards

IEC/EN 60947

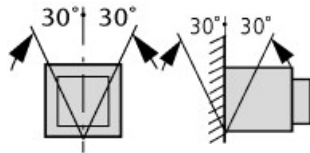
Ambient temperatureStorage [θ]

-40 - +70 °C

Ambient temperatureAmbient temperature

-25 - +70 °C

Mounting position



Utilization category

B

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 [I_u]

1000 A

Rated uninterrupted current at 60 °C [I_u]

1000 A

Rated uninterrupted current at 70 °C [I_u]

1000 A

Rated impulse withstand voltage [U_{imp}]

12000 V AC

Rated operational voltage [U_e]

690 V AC

Overvoltage category/pollution degree

III/3

Rated insulation voltage [U_i]

1000 V

Switching capacity

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

145 kA

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

145 kA

Operating timesClosing delay via spring release

30 ms

Operating timesTotal opening delay via shunt release

35 ms

Operating timesTotal opening delay via undervoltage release

40 ms

LifespanLifespan, mechanical [Switching cycles (ON/OFF)]

12500

LifespanLifespan, mechanical with maintenance [Switching cycles (ON/OFF)]

25000.

LifespanLifespan, electrical [Switching cycles (ON/OFF)]

10000

LifespanLifespan, electrical with maintenance [Switching cycles (ON/OFF)]

20000.

Maximum operating frequencyMaximum operating frequency [Operations/h]

60

Heat dissipation at rated current I_n Fixed mounting

55 W

Weight

Fixed mounting4-pole

50 kg

Terminal capacities

Copper barFixed mountingBlack

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_{vid}]

55 W

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+70 °C

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 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 parts 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets 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 parts 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 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 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 disconnecter (EC000216)

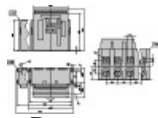
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecl@ss10.0.1-27-37-14-03 [AKF060013])

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 U_e AC
690 V
Rated operating voltage
690 - 690 V
Rated permanent current I_u
1000 A
Rated permanent current at AC-23, 400 V
A
Rated permanent current at AC-21, 400 V
0 A
Rated operation power at AC-3, 400 V
0 kW
Rated short-time withstand current I_{cw}
66 kA
Rated operation power at AC-23, 400 V
0 kW
Switching power at 400 V
0 kW
Conditioned rated short-circuit current I_q
144 kA
Number of poles
4
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 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 (NEMA)

Dimensions



- Door
- Contact surface flange terminal

CAD data

- [Product-specific CAD data](#)
(Web)
- [3D Preview](#)
(Web)

DWG files

- [DA-CD-izmx40_4pol_f](#)
File
(Web)

edz files

- [DA-CE-ETN.INX40B4-10F-1](#)
File
(Web)

Step files

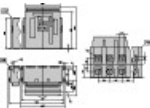
- [DA-CS-izmx40_4pol_f](#)
File
(Web)

Product photo

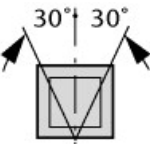


1230PIC-1225
Photo

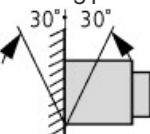
Dimensions single product



- [1230DIM-400](#)
Line drawing
 Door
 Contact surface flange terminal



- [123N098](#)
Line drawing
Mounting position



- [123N099](#)
Line drawing
Mounting position

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