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Worldwide English



INX40N3-08W-1 - Switch-disconnector, 3 pole, 800A, without protection, IEC, Withdrawable



184064 INX40N3-08W-1

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## 184064 INX40N3-08W-1

Switch-disconnector, 3 pole, 800A, without protection, IEC, Withdrawable

EL-Nummer (Norway) 4398426

Open switch-disconnectors, Switch-disconnector, Number of poles 3 pole, Rated current = rated uninterrupted current 800 A, Protective function without protection, Standard/Approval IEC, Installation type Withdrawable

- 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  
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 [ $I_n = I_c$ ]  
800 A  
Rated short-circuit making capacity up to 440V/690V 42/42 [ $I_{cm}$ ]

187 kA  
Rated short-time withstand current  $t = 1$  s [ $I_{cw}$ ]  
85 kA  
Rated short-time withstand current  $t = 3$  s [ $I_{cw}$ ]  
66 kA

## Technical data

General

Standards

IEC/EN 60947

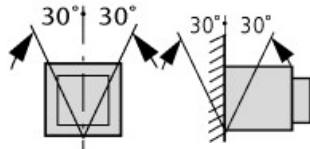
Ambient temperature Storage [9]

-40 - +70 °C

Ambient temperature Ambient 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 [ $I_n = I_u$ ]

800 A

Rated uninterrupted current at 50 °C [ $I_u$ ]

800 A

Rated uninterrupted current at 60 °C [ $I_u$ ]

800 A

Rated uninterrupted current at 70 °C [ $I_u$ ]

800 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 [ $I_{cm}$ ]

187 kA

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

166 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 (ON/OFF)]

12500

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

25000

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

10000

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

20000

Maximum operating frequency Maximum operating frequency [Operations/h]

60

Heat dissipation at rated current  $I_n$  Withdrawable units (switch with cassette)

35 W

Weight

Withdrawable 3-pole

66 kg  
Cassette3 pole  
29 kg  
Terminal capacities  
Copper barWithdraw able unitsBlack  
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 [ $I_r$ ]

800 A

Equipment heat dissipation, current-dependent [ $P_{vid}$ ]

35 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

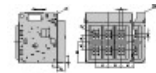
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## TECHNICAL DATA E-TIM 7.0

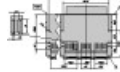
Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)  
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecl@ss10.0.1-27-37-14-03 [AKF060013])  
Version as main 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 Ue AC  
690 V  
Rated operating voltage  
690 - 690 V  
Rated permanent current Iu  
800 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 Icw  
85 kA  
Rated operation power at AC-23, 400 V  
0 kW  
Switching power at 400 V  
0 kW  
Conditioned rated short-circuit current Iq  
187 kA  
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 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  
Rail connection

Degree of protection (IP), front side  
IP31  
Degree of protection (NEMA)

## Dimensions



Door



Door

Contact surface flange terminal

## CAD data

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

## DWG files

- [DA-CD-izmx40\\_3pol\\_w](#)  
File  
(Web)

## edz files

- [DA-CE-ETN.INX40N3-08W-1](#)  
File  
(Web)

## Step files

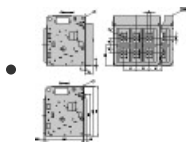
- [DA-CS-izmx40\\_3pol\\_w](#)  
File  
(Web)

## Product photo



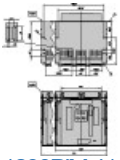
[1230PIC-1224](#)  
Photo

## Dimensions single product



[1230DIM-403](#)  
Line drawing

Door

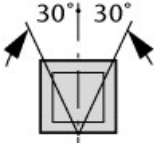


1230DIM-414

Line drawing

Door

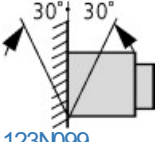
Contact surface flange terminal



123N098

Line drawing

Mounting position



123N099

Line drawing

Mounting position

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