Powering Business Worldwide

INX40B3-08F-1 - Switch-disconnector, 3 pole, 800A, without protection, IEC, Fixed

184040 INX40B3-08F-1

Overview Specifications Resources

184040 INX40B3-08F-1

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

EL-Nummer (Norway) 4398402

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 Fixed

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

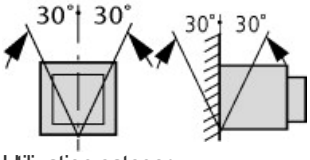
Delivery program

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
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 [$I_n = I_u$]
800 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 [$I_n = I_u$]
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}]
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_nFixed mounting
35 W
Weight

Fixed mounting3-pole
43 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

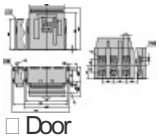
Technical data for design verification
Rated operational current for specified heat dissipation [I_n]
800 A
Equipment heat dissipation, current-dependent [P_{vid}]
35 W
Operating ambient temperature min.
-25 °C
Operating ambient temperature max.
+70 °C
IEC/EN 61439 design verification
10.2 Strength of materials and parts10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.1 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 heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 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 parts10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.7 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 properties10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
10.9 Insulation properties10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
10.9 Insulation properties10.9.4 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 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
66 kA
Rated operation power at AC-23, 400 V
0 kW
Switching power at 400 V
0 kW
Conditioned rated short-circuit current Iq
144 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 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_3pol_f
  File
  (Web)

edz files

- DA-CE-ETN.INX40B3-08F-1
  File
  (Web)

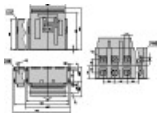
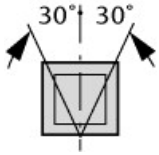
Step files

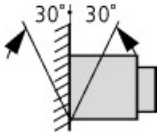
- DA-CS-izmx40_3pol_f
  File
  (Web)

Product photo

- 
  1230PIC-1223
  Photo

Dimensions single product

- 
  1230DIM-400
  Line drawing
  Door
  Contact surface flange terminal
- 

  123N098
  Line drawing
  Mounting position
- 

123N099
Line drawing
Mounting position

Download-Center

- Download-Center (this item)
  Eaton EMEA Download-Center - download data for this item
- Download-Center
  Eaton EMEA Download-Center

Generate data sheet in PDF format

Generate data sheet in Excel format

Write a comment