

NH fuse switch-disconnector size 00, 160 A (33198)



The picture may show a similar product.

Description

Part No.: **33198 000**

QUADRON[®] 60Classic

NH fuse switch-disconnector size 00, 160 A

box terminal

connection top or bottom

for busbars 12, 15, 20, 25, 30 x 5, 10 and section busbars
with CrossLink[®]Technology

System

60Classic

Advantages of the product

CrossLink[®] adapter technology

Fast and safe conversion of the connection for top or bottom; the parts under voltage remain shock protected

Simple and safe clicking into place and making contact

Safe connection through shock protection split into two

If flat busbars are used the device can be mounted covering the busbar support

Product group 09
Subgroup 24

pack size 1
EAN 4021267331986

ECLASS 14.0 27142108
ETIM 5.0 EC001040
ETIM 8.0 EC001040
ETIM 10.0 EC001040

Approvals

Standards

IEC 60947-1:2020
IEC 60947-3:2020 AC ratings only
UL 4248-1

Approvals

IEC (CB) , UL , VDE , CCC , DNV GL



for UL feeder circuits >250V

type number: QCB-NH00

UL file: E230163, UL category (for USA): IZLT2 <https://www.ul.com>
CCC certificate: 2010010302403934

Technical data

| | |
|---|---|
| for fuse links size: | NH 000, NH 00 |
| fuse links acc. to standard: | IEC / HD 60269-2 |
| permitted power dissipation of the fuse-link: | 12 W |
| requirements for contact parts: | Fuse links with silver-plated contact pieces recommended. For fuse links with nickel-plated contact pieces, a reduction factor of 0.8 is to be observed. |

Details IEC

Standards

IEC 60947-1:2020

IEC 60947-3:2020 AC ratings only

Electrical data IEC

rated current (IEC): 160 A

rated voltage (IEC) AC: 690 V

rated voltage (IEC) DC: 440 V

rated isolation voltage U_i AC: 800 V

rated isolation voltage U_i DC: 500 V

rated surge voltage U_{imp} : 6 kV

Utilisation category AC (IEC 60947-3): AC-22B 500V 160A

AC-22B 690V 125A

AC-23B 500V 125A

AC-23B 400V 160A

cond. short-circuit current with fuses (AC): 50 kA / 690 V

80 kA / 500 V (160 A)

approved with fuse links of operation class: gG

rated short-time withstand current I_{CW} (1.0 s) max.: 5 kA

power dissipation of the article:

The power dissipation at a typical load of 80 % results to 11.3 W.

(The power dissipation at full load would be 17.7 W.)

Supplementary data IEC

The following values have been verified with tests under certain conditions. Please ask Wöhner for this conditions before designing your panel.

max. permitted voltage (IEC) DC: 800 V

further utilisation category AC (IEC 60947-3): AC-20B (1000 V) at pollution degree 2

visible information required if used at more than 690V AC: do not switch under load

further utilisation category DC (IEC 60947-3): 2 contacts (L1,L3) in line
DC-21B (220 V)

DC-21B (440 V / 100 A)

DC-22B (220 V / 63 A)

DC-20B (1000 V) at pollution degree 2

visible information required if used at more than 440 V DC: do not switch under load

A fuse-combination unit acc. to IEC 60947-3 can only be operated at a higher voltage than its rated voltage, if it is used as a fuse-disconnector without breaking capacity, up to its max. rated insulation voltage and labelled as such.

min. permitted operation temperature -40°C

max. permitted operation temperature 55°C

When several devices are used side-by-side in continuous operation, the rated load factor specified in IEC / EN 61439-1, Table 1, must be observed.

System component: degree of protection IP30 at front as per DIN EN 60529, degree of protection near terminal depends on installation

adaptor module: front side degree of protection IP20 as per DIN EN 60529 (finger-safe)

Details UL

Standards

UL 4248-1

for UL feeder circuits >250V

Electrical data UL

rated current (UL): 160 A

rated voltage (UL) AC: 600 V

rated frequency (UL): 50 / 60 Hz

SCCR: 100 kA

Mechanical data

W x H x D: 106 x 200 x 97
weight: 100.0 kg/100
poles: 3-pole
for busbars: 12, 15, 20, 25, 30 x 5, 10 and section busbars

front degree of protection: IP30

Busbar connector: externally tensioned contacting, convenient click mechanism, simple conversion of the combination bases from 5 to 10mm-thick busbars

Terminal points

cage clamp connection

| | |
|--|--------------------------|
| screw drive: | S4 |
| wire stripping: | 20 mm |
| min. cross-section: | 1.5 mm ² |
| max. cross-section: | 70 mm ² |
| re: | 1.5 - 70 mm ² |
| rm: | 16 - 70 mm ² |
| f: | 1.5 - 70 mm ² |
| f + AE: | 1.5 - 70 mm ² |
| (f + AE may not fit with max. cross-section) | |
| Md min.: | 5.0 Nm |
| Md max.: | 6.0 Nm |
| Not suitable for aluminium cables ! | |
| Terminal space: | 12x9 |
| | |
| min. cross-section UL: | AWG 12 |
| max. cross-section UL: | AWG 2/0 |
| torque (UL): | 44-53 lb-in |

2x 10 mm², 2x 16 mm² and 2x 25 mm² flexible with wire-end ferrules, identical cables placed side by side, crimping square

2x 10 - 35 mm² flexible identical cables placed side by side

Material properties

halogen-free: No

Application notes

Not suitable for aluminium cables !

based on the AC and DC switching capacities and considering the overload conditions as given in the above mentioned standards the following distances to earthed metal parts have to be respected:

required spacing top: 30 mm

required spacing at sides: 15 mm

A fuse-combination unit acc. to IEC 60947-3 can only be operated at a higher voltage than its rated voltage, if it is used as a fuse-disconnector without breaking capacity, up to its max. rated insulation voltage and labelled as such.

permitted power dissipation of the fuse-link: 12 W

requirements for contact parts: Fuse links with silver-plated contact pieces recommended.

For fuse links with nickel-plated contact pieces, a reduction factor of 0.8 is to be observed.

for UL feeder circuits >250V

Accessories

connection accessories



79811 000

cover for cable lugs, top / bottom attachable

NH 00

for: 33200, 33208, 33329, 33394, 33398, 33420



33915 000

connection for auxiliary line, for box terminal

flat connector EN 61210 6.3 x 0.8

for: QCB-NH00, QCS-NH00, QCS-160

covers



33315 000

trim cover, 2 parts

for NH-LTS size 00

size 00



33317 000

trim strip, attachable at side

for NH-LTS size 00

size 00

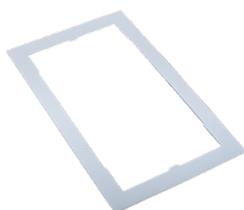


78105 000

trim frame, double

232 x 210, not for 33221, 33222

size 00



78893 000

trim frame, single

130 x 210, not for 33221, 33222

size 00

further accessories



33156 000

pilot switch

changeover 250 V AC / 5 A, 30 V DC / 4 A



03849 000

lid interlock

for sealing wire

Size 00



32594 000

CrossLink[®] 60Classic

spare part busbar adapter 160 A

busbar adapter base

<https://pim.woehner.de/EN/EN/1000047009>