

NH fuse switch-disconnector size 1, 250 A (33601)



The picture may show a similar product.

Description

Part No.: **33601 000**

QUADRON® 60Classic

NH fuse switch-disconnector size 1, 250 A

Size NH 1

screw M10

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

Busbar supports for flat busbars can be mounted above each other

Self-closing test holes are available in the cover.

Product group 09
Subgroup 27

pack size 1
EAN 4021267336011

ETIM 5.0 EC001040
ETIM 8.0 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-NH1

UL file: E230163, UL category (for USA): IZLT2 <https://www.ul.com>
CCC certificate: 2012010302563561

Technical data

for fuse links size:	NH 1
fuse links acc. to standard:	IEC / HD 60269-2
permitted power dissipation of the fuse-link:	23 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): 250 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-21B (690 V / 250A)

AC-22B (400 V / 250A)

Utilisation category DC (IEC 60947-3): DC specifications: 2 current paths (L1,L3) in series

DC-20B (440 V)

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

visible information required if used at more than 440V DC:

do not switch under load

cond. short-circuit current with fuses (AC): 100 kA / 690 V

approved with fuse links of operation class: gG

rated peak withstand current I_{pk} max.: 13.7 kA

rated short-time withstand current I_{cw} (1.0 s) max.: 8.1 kA

I_{cw} approved with: Trennmesser

power dissipation of the article:

The power dissipation at a typical load of 80 % results to 16.6 W.

(The power dissipation at full load would be 26.0 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) AC: 725 V
max. permitted voltage (IEC) DC: 800 V

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

Entsprechend den angegebenen AC- und DC- Schalteigenschaften und unter Berücksichtigung der Überlastbedingungen, sind gewisse Abstände zu geerdeten Metallteilen einzuhalten. Nähere Informationen auf Anfrage. Bei Verwendung als Trennschalter ist die Einhaltung der Abstände nicht erforderlich.

Degree of protection IP30 at front, degree of protection near terminal depends on installation

Details UL

Standards

UL 4248-1

for UL feeder circuits >250V

Electrical data UL

rated current (UL): 250 A
rated voltage (UL) AC: 600 V
rated frequency (UL): 50 / 60 Hz

SCCR: 100 kA

Mechanical data

W x H x D: 184 x 243 x 157
weight: 266.0 kg/100
poles: 3-pole
for busbars: 12, 15, 20, 25, 30 x 5, 10 and section busbars

front degree of protection: IP30

Terminal points

screw connection

M10

screw drive: SW16

Md min.: 20.0 Nm

Md max.: 30.0 Nm

Material properties

halogen-free: No

Application notes

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: 20 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: 23 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



33145 000

prism terminal, double, for Cu cables
2x 35 - 70 mm²
for: QCB-NH1, QCS-NH1, QCS-320



33163 000

clamp connector for Cu cables
70 - 150 mm²
for: QCB-NH2, LTS-F 400, LTS 630



33166 000

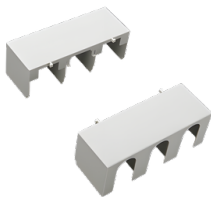
prism terminal, single, for Cu cables
35 - 150 mm²
QCB-NH1, QCS-NH1, QCS-320
for: QCB-NH1, QCS-NH1, QCS-320



33909 000

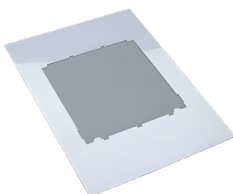
box terminal for Cu cables
35 - 150 mm²
QCB-NH1, QCS-NH1, QCS-320
for: QCB-NH1, QCS-NH1, QCS-320

covers



33142 000

cover for cable lugs, top / bottom attachable
for: QCB-NH1, QCS-NH1, QCS-320



33152 000

trim frame, single
215 x 330
size 1



33155 000

barrier for handle
for NH fuse-switch disconnecter size 1-3
for closing of handle area from rear



33917 000

pilot switch
changeover 250 V AC / 5 A, 30 V DC / 4 A
QUADRON®60Classic, QUADRON®Panel size 1

further accessories



33157 000

lid interlock
for sealing wire or 3 padlocks with shackle of 4 - 7 mm
Size 1 - 3



33918 000

arcing chamber
retrofit package for higher utilisation category
for: QCB-NH1

spare parts



32595 000

CrossLink® 60Classic
spare part busbar adapter 250 A
busbar adapter base

<https://pim.woehner.de/EN/EN/1000047106>