# DATA SHEET

Date: 18.8.2015

# Fusible heavy duty safety switch with neutral, single throw EOH366NK

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by ABB for any consequences arising out of the use of this material.

| | |
|---|---|
| **Type** | EOH366NK |
| **Ordering number** | 1SCA138598R1001 |
| **EAN-code** | 6417019668765 |
| **Product Name** | Fusible heavy duty safety switch with neutral, single throw |
| **UL-file number** | E314773 |
| **CSA-file number** | 58077 |
| **Country of Origin** | Finland |
| **Type of enclosure** | NEMA Type 1 Indoor |
| **General purpose current rating 600V** | 600A |
| **Number of poles** | 3 |
| **Net Weight** | 143.1lb / 64.908kg |
| **Gross Weight** | 154.4lb / 70.034kg |
| **Standards** | UL98, UL50, UL4248-1, NEMA KS1, CSA |
| **Instructions and manuals** | 34 EOH364-5-6 |
| **Type of disconnect** | OT600US30EOH |
| **Switch operating torque** | 354Ib.in / 40Nm |
| **Min. Electrical endurance power factor 0.7 - 0.8** | 1200 op. cycles |
| **Mechanical endurance** | 6000 op. cycles |
| **Power loss / switch unit excluding fusegear** | 20.4W |
| **Application ambient air temperature** | -30°C/-22°F…40°C/104°F |
| **Standard Power rating Three phase /240V** | 75HP / 55.95kW |
| **Standard Power rating Three phase /480V** | 150HP / 111.9kW |
| **Standard Power rating Three phase /600V** | 200HP / 149.2kW |
| **Max. Power rating Three phase /240V** | 200HP / 149.2kW |
| **Max. Power rating Three phase /480V** | 400HP / 298.4kW |
| **Max. Power rating Three phase /600V** | 500HP / 373kW |
| **Max. Power rating /250Vdc** | 50HP / 37.3kW |
| **Max. motor FLA current Three phase /240V** | 480A |
| **Max. motor FLA current Three phase /480V** | 477A |
| **Max. motor FLA current Three phase /600V** | 472A |
| **Maximum fuse size** | 600A |
| **Fuse clips** | Class H, K, RK1-5 to be equipped with field-installable rejection members, mounting screw kit and provision to relocate fuse base for class J |
| **Class RK fuses, short circuit rating 480Vac** | 200kA |
| **Class J fuses, short circuit rating 480Vac** | 200kA |
| **Class RK fuses, short circuit rating 600Vac** | 200kA |
| **Class J fuses, short circuit rating 600Vac** | 200kA |

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|---|---|
| **Class H fuses, short circuit rating 600Vac** | 10kA |
| **Class K fuses, short circuit rating 600Vac** | 50kA |
| **Short circuit rating 250Vdc** | 100kA |
| **Terminal lugs for line and load side terminals** | OZXA-800 |
| **Torque: Lug mounting line and load side terminals** | 480lb.in / 54.2Nm |
| **Wire size 75°C Copper** | 2x600 kcmil |
| **Wire size 75°C Copper Cross section** | 608mm² |
| **Wire size 75°C Aluminium** | 2x600 kcmil |
| **Wire size 75°C Aluminium Cross section** | 608mm² |
| **Torque: line and load side wire tightening** | 500lb.in / 56.5Nm |
| **Grounding terminal included in delivery** | 2xOZXG2 |
| **Grounding terminal wire range** | 250kcmil - AWG6 |
| **Torque: grounding wire tightening** | 275lb.in / 31.1Nm |
| **Neutral bus included** | EOHXSN56 |
| **Auxiliary contacts included** | Field-installable auxiliary contacts mountable in switch mechanism are to be ordered separately. |
| **Max. number of auxiliary contacts to be added** | 4no+4nc (early break) |
| **Enclosure construction type** | EOH6 Type 1: Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection against falling dirt. |
| **Cabling direction** | TopBottom |
| **Enclosure colour** | ANSI 61 (light gray) |
| **External Enclosure width/W** | 22.05in / 560mm |
| **External Enclosure height/H** | 63.39in / 1610mm |
| **External Enclosure depth/D** | 8.54in / 217mm |
| **Cable outlets type** | Concentric knockouts |
| **Cable outlets / top (øInch/mm)** | 4x(ø3.62/92+ø3/76.2+ø2.5/63.5+ø2/50.8+ø1.57/40)+2x(ø0.75/19.05+ø0.5/12.7) |
| **Cable outlets / bottom (øInch/mm)** | 4x(ø3.5/88.9+ø3/76.2+ø2.5/63.5+ø2/50.8+ø1.57/40)+2x(ø0.75/19.05+ø0.5/12.7) |
| **Number of door hinges** | 3 |
| **Number of door locking latches** | 4 |
| **Enclosure material specification** | Corrosion resistant steel, paint: polyester powder coating 70+/-10µm, material thickness: door 0.079in/2mm, enclosure 0.079in/2mm, fixing plates 0.118in/3mm, handle shield 0.059in/1.5mm. |
| **Handle type** | Side-operated, fully insulated |
| **Handle color** | Black grip with red position ON indicator |
| **Handle material specification** | Handle grip: metallic insert, glass reinforced polyamide (PA f1)/ Red handle indicator: polycarbonate (PC f1). |
| **Type of packing** | Environment friendly corrugated cardboard |
| **Packingbox width** | 24.4in / 620mm |
| **Packingbox heigth** | 67.3in / 1710mm |
| **Packingbox depth** | 12in / 305mm |
| **Additional information** | Fusible heavy duty safety switch in painted steel sheet enclosure. Mounting screw kit for class J fuses is included. Neutral assembly with bonding jumper is included. Suitable only for use as service equipment. Grounding bus is included. Padlockable in OFF-position with 3 padlocks of bail max. diameter 0.25in/6.4mm. Enclosure opening edge is provided with protective rubber gasket profile. Releasable door interlocking mechanism. Mounting screw kit for class J fuses is included. Field-installable accessories and fuses are to be ordered separately. Factory mounted fuse base and clips for class H, K, RK1-5 fuses. Not for use as motor controller. |
| **Description FI** | Sulakkeellinen turvakytkin raskaaseen käyttöön |
| **Description EN** | Fusible heavy duty safety switch |

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# Fusible heavy duty safety switch with neutral, single throw EOH366NK

| | |
|---|---|
| **Description FR** | Interrupteur avec fusibles de sécurité pour service intensif |
| **Description ES** | Interruptor de seguridad de servicio pesado con fusibles |

### Technical information:
http://new.abb.com/low-voltage/launches/safetyswitches

### UL Certificate of Compliance:
http://www05.abb.com/global/scot/scot209.nsf/veritydisplay/762006113685b65fc1257d6200207c53/$file/UL%20certificate%20EOH.pdf

### CSA Certificate of Compliance:
http://www05.abb.com/global/scot/scot209.nsf/veritydisplay/8e61ba5de98778c9c1257d5e002e7422/$file/CSA%20Certificate%20EOH_%20EOHU_.pdf

### Catalogue:
http://www05.abb.com/global/scot/scot209.nsf/veritydisplay/fa1d5d4923ab6eddc1257da200370e6b/$file/1SCC340010C0201.pdf

### Leaflet:
http://www05.abb.com/global/scot/scot209.nsf/veritydisplay/c4e1234e4521d69ac1257c7b003240a2/$file/1SCC340007K0201.pdf

### Instruction bulletin:
http://www05.abb.com/global/scot/scot209.nsf/veritydisplay/32753b9528f44814c1257d230034a00e/$file/1SCC340032M1401.pdf

### Drawing/PDF:
http://www05.abb.com/global/scot/scot209.nsf/veritydisplay/a99635f128e89bf1c1257c99003411b5/$file/Z13_EOH366K.PDF

### Drawing/IGES:
http://new.abb.com/low-voltage/launches/safetyswitches/fusible-safety-switches

### Field-installable accessories:

| | |
|---|---|
| **Fuse mounting kits** | EOHFBK6 for Class J 600A fuses, included in delivery |
| **Fuse rejection member kits** | EOHRM6R for Class RK1-5 fuses |
| **Auxiliary contact NO type to be added** | OA1G10 |
| **Auxiliary contact NC type to be added** | OA3G01 |
| **Hubs** | H050-TB, H125-TB, H150-TB, H200-TB, H250-TB, H300-TB |

### Replacement parts:

| | |
|---|---|
| **Terminal lugs for line and load side terminals** | OZXA-800/3 |
| **Grounding terminal** | OZXG2/2 |
| **Switch disconnect** | OT600US30EOHR |
| **Fuse base kits** | EOHFBR6LU |
| **Door locking mechanism** | EOHLM6 |
| **Handle assembly** | EOHH2 |

**Technical and product support**:
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## Fusible heavy duty safety switch with neutral, single throw
## EOH366NK

**EOH366NK**

| | | |
|---|---|---|
| **A** | 19.69in | 500mm |
| **B** | 61.02in | 1550mm |
| **C1** | 0.31in | 8mm |
| **C2** | 0.79in | 20mm |
| **F** | 9.84in | 250mm |
| **L** | 0.51in | 13mm |
| **M** | 0.98in | 25mm |
| **H** | 64.33in | 1634mm |
| **W** | 23in | 584mm |
| **W1** | 24.49in | 622mm |
| **D** | 8.5in | 216mm |
| **E** | 11.26in | 286mm |

**EOH366NK KNOCKOUT INFORMATION**
**TOP ENDWALL OF ENCLOSURE**

| H horizontal | V vertical (see Note) | Ø Knockout hole diameter |
|---|---|---|
| 5.53in/140.5mm | 2.78in/70.5mm | 0.5in/12.7mm 0.75in/19.1mm |
| 16.52in/419.5mm | 2.78in/70.5mm | 0.5in/12.7mm 0.75in/19.1mm |
| 2.79in/70.8mm | 4.74in/120.5mm | 1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm |
| 8.28in/210.3mm | 4.74in/120.5mm | 1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm |
| 13.77in/349.8mm | 4.74in/120.5mm | 1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm |
| 19.26in/489.3mm | 4.74in/120.5mm | 1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm |

Note: Vertical dimension is from mounting surface.

**EOH366NK KNOCKOUT INFORMATION**
**BOTTOM ENDWALL OF ENCLOSURE**

| H horizontal | V vertical (see Note) | Ø Knockout hole diameter |
|---|---|---|
| 5.53in/140.5mm | 2.78in/70.5mm | 0.5in/12.7mm 0.75in/19.1mm |
| 16.52in/419.5mm | 2.78in/70.5mm | 0.5in/12.7mm 0.75in/19.1mm |
| 2.79in/70.8mm | 4.74in/120.5mm | 1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm |
| 8.28in/210.3mm | 4.74in/120.5mm | 1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm |
| 13.77in/349.8mm | 4.74in/120.5mm | 1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm |
| 19.26in/489.3mm | 4.74in/120.5mm | 1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm |

Note: Vertical dimension is from mounting surface.

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