# DATA SHEET

Date: 18.8.2015

# Fusible heavy duty safety switch, single throw
# EOH363JK

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** | EOH363JK |
| **Ordering number** | 1SCA132191R1001 |
| **EAN-code** | 6417019613406 |
| **Product Name** | Fusible heavy duty safety switch, single throw |
| **UL-file number** | E314773 |
| **CSA-file number** | 58077 |
| **Country of Origin** | Finland |
| **Type of enclosure** | NEMA Type 12 Indoor |
| **General purpose current rating 600V** | 100A |
| **Number of poles** | 3 |
| **Net Weight** | 32.9lb / 14.94kg |
| **Gross Weight** | 43.3lb / 19.66kg |
| **Standards** | UL98, UL50, UL4248-1, NEMA KS1, CSA |
| **Instructions and manuals** | 34 EOH361-2-3JRS |
| **Type of disconnect** | OT100US30EOH |
| **Switch operating torque** | 79.7lb.in / 9Nm |
| **Min. Electrical endurance power factor 0.7 - 0.8** | 7000 op. cycles |
| **Mechanical endurance** | 14000 op. cycles |
| **Power loss / switch unit excluding fusegear** | 3W |
| **Application ambient air temperature** | -30°C/-22°F…40°C/104°F |
| **Standard Power rating  Single phase /240V** | 7.5HP / 5.6kW |
| **Standard Power rating  Single phase /480V** | 10HP / 7.46kW |
| **Standard Power rating  Single phase /600V** | 15HP / 11.19kW |
| **Standard Power rating  Three phase /240V** | 15HP / 11.19kW |
| **Standard Power rating  Three phase /480V** | 25HP / 18.65kW |
| **Standard Power rating  Three phase /600V** | 30HP / 22.38kW |
| **Max. Power rating  Single phase /240V** | 15HP / 11.19kW |
| **Max. Power rating  Single phase /480V** | 30HP / 22.38kW |
| **Max. Power rating  Single phase /600V** | 40HP / 29.84kW |
| **Max. Power rating  Three phase /240V** | 30HP / 22.38kW |
| **Max. Power rating  Three phase /480V** | 60HP / 44.76kW |
| **Max. Power rating  Three phase /600V** | 75HP / 55.95kW |
| **Max. Power rating  /125Vdc** | 5HP / 3.7kW |
| **Max. Power rating  /250Vdc** | 20HP / 14.9kW |
| **Max. motor FLA current  Single phase /120-127V** | 100A |
| **Max. motor FLA current  Single phase /240V** | 68A |
| **Max. motor FLA current  Single phase /480V** | 68A |
| **Max. motor FLA current  Single phase /600V** | 70A |

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| **Max. motor FLA current Three phase /120-127V** | 84A |
| **Max. motor FLA current Three phase /240V** | 80A |
| **Max. motor FLA current Three phase /480V** | 77A |
| **Max. motor FLA current Three phase /600V** | 77A |
| **Maximum fuse size** | 100A |
| **Fuse clips** | Class H, K, RK1-5 to be equipped with field-installable rejection members, provision to relocate fuse base for class J, field-installable mounting kit for class T |
| **Class RK fuses, short circuit rating 480Vac** | 200kA |
| **Class J fuses, short circuit rating 480Vac** | 200kA |
| **Class T fuses, short circuit rating 480Vac** | 200kA |
| **Class RK fuses, short circuit rating 600Vac** | 200kA |
| **Class J fuses, short circuit rating 600Vac** | 200kA |
| **Class T fuses, short circuit rating 600Vac** | 200kA |
| **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-100 |
| **Torque: Lug mounting line and load side terminals** | 132lb.in / 14.9Nm |
| **Wire size 60°C Copper** | AWG1 |
| **Wire size 60°C Copper Cross section** | 42.4mm² |
| **Wire size 60°C Aluminium** | AWG1 |
| **Wire size 60°C Aluminium Cross section** | 42.4mm² |
| **Wire size 75°C Copper** | AWG2/0 |
| **Wire size 75°C Copper Cross section** | 67.4mm² |
| **Wire size 75°C Aluminium** | AWG2/0 |
| **Wire size 75°C Aluminium Cross section** | 67.4mm² |
| **Torque: line and load side wire tightening** | AWG0/2-3: 50 lb.in, AWG4-6: 45 lb.in, AWG8: 40 lb.in, AWG10-14: 35 lb.in / AWG0/2-3: 5.6 Nm, AWG4-6: 5.1 Nm, AWG8: 4.5 Nm, AWG10-14: 4Nm |
| **Grounding terminal included in delivery** | 2xOZXG1 |
| **Grounding terminal wire range** | AWG2 - 14 |
| **Torque: grounding wire tightening** | 50lb.in / 5.6Nm |
| **Auxiliary contacts included** | Field-installable auxiliary contacts mountable in switch mechanism are to be ordered separately. |
| **Max. number of auxiliary contacts to be added** | 2no+2nc (early break) |
| **Enclosure construction type** | EOH3J Type 12: Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, fibers, and flyings; against dripping and light splashing of non-corrosive liquids; and against light splashing and consequent seepage of oil and non-corrosive coolants. |
| **Cabling direction** | TopBottom |
| **Enclosure colour** | ANSI 61 (light gray) |
| **External Enclosure width/W** | 12.09in / 307mm |
| **External Enclosure height/H** | 28.39in / 721mm |
| **External Enclosure depth/D** | 6.22in / 158mm |
| **Cable outlets type** | Concentric knockouts |
| **Cable outlets / top (øInch/mm)** | ø2/50.8+3x(ø1.5/38.1)+3x(ø1.25/31.8)+3x(ø1/25.4+ø0.75/19)+2x(ø0.5/12.7)+ø0.63/16+ø0.25/6.35+ø0.9/22.4 |
| **Cable outlets / bottom (øInch/mm)** | ø2/50.8+3x(ø1.5/38.1)+3x(ø1.25/31.8)+3x(ø1/25.4+ø0.75/19)+2x(ø0.5/12.7)+ø0.63/16+ø0.25/6.35+ø0.9/22.4 |
| **Number of door hinges** | 2 |
| **Number of door locking latches** | 2 |

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| **Enclosure material specification** | Corrosion resistant steel, paint: polyester powder coating 70+/-10µm, material thickness: door 0.059in/1.5mm, enclosure 0.059in/1.5mm, 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: glass reinforced polyamide (PA f1)/ Red handle indicator: polycarbonate (PC f1). |
| **Type of packing** | Environment friendly corrugated cardboard |
| **Packingbox width** | 14.6in / 370mm |
| **Packingbox heigth** | 32.3in / 820mm |
| **Packingbox depth** | 9.3in / 235mm |
| **Additional information** | Fusible heavy duty safety switch in painted steel sheet enclosure. Grounding bus is included. Padlockable in OFF-position with 3 padlocks of bail max. diameter 0.25in/6.4mm. Releasable door interlocking mechanism. Field-installable accessories and fuses are to be ordered separately. Factory mounted fuse base and clips for class H, K, RK1-5 fuses. |
| **Description FI** | Sulakkeellinen turvakytkin raskaaseen käyttöön |
| **Description EN** | Fusible heavy duty safety switch |
| **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/a8e65d4cbe016259c1257d230033a2c9/$file/1SCC340030M1401.pdf

**Drawing/PDF:**
http://www05.abb.com/global/scot/scot209.nsf/veritydisplay/791528a16fb143c1c1257c9800575f66/$file/Z13_EOH363JK.PDF

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

## Field-installable accessories:

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|---|---|
| **Neutral assembly** | EOHXSN13 |
| **Fuse mounting kits** | EOHFBK3 for Class T 100A fuses |
| **Fuse rejection member kits** | EOHRM34R for Class RK1-5 fuses |
| **Auxiliary contact NO type to be added** | OA1G10 |
| **Auxiliary contact NC type to be added** | OA3G01 |
| **Terminal cover Line side** | OTS250G1S/3 |
| **Hubs** | H050-TB, H075-TB, H100-TB, H150-TB |

## Replacement parts:

| | |
|---|---|
| **Terminal lugs for line and load side terminals** | OZXA-100/3 |
| **Grounding terminal** | OZXG1/2 |
| **Switch disconnect** | OT100US30EOHR |
| **Fuse base kits** | EOHFBR3LU |
| **Door locking mechanism** | EOHLM2 |
| **Handle assembly** | EOHH1 |

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**EOH363JK**

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|---|---|---|
| **A** | 29.96in | 761mm |
| **B** | 10.59in | 269mm |
| **F** | 5.28in | 134mm |
| **G** | 1.1in | 28mm |
| **N** | 0.83in | 21mm |
| **K** | 0.35in | 9mm |
| **L** | 0.35in | 9mm |
| **M** | 0.75in | 19mm |
| **H** | 30.75in | 781mm |
| **W** | 13.23in | 336mm |
| **W1** | 14.49in | 368mm |
| **D** | 6.3in | 160mm |
| **E** | 9in | 229mm |

**EOH363JK KNOCKOUT INFORMATION**
**TOP ENDWALL OF ENCLOSURE**

| H horizontal | V vertical (see Note) | Ø Knockout hole diameter |
|---|---|---|
| 4.61in/117mm | 1.69in/43mm | 0.25in/6.35mm |
| 3.17in/80.5mm | 2.99in/76mm | 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm 1.39in/35.2mm |
| 8.92in/226.5mm | 2.99in/76mm | 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm 1.39in/35.2mm |
| 6.04in/153.5mm | 2.99in/76mm | 0.63in/16mm 0.88in/22.4mm 1.11in/28.2mm 1.39in/35.2mm 2in/50.8mm |
| 4.61in/117mm | 4.02in/102mm | 0.79in/20mm |

Note: Vertical dimension is from mounting surface.

**EOH363JK KNOCKOUT INFORMATION**
**BOTTOM ENDWALL OF ENCLOSURE**

| H horizontal | V vertical (see Note) | Ø Knockout hole diameter |
|---|---|---|
| 4.61in/117mm | 1.69in/43mm | 0.25in/6.35mm |
| 3.17in/80.5mm | 2.99in/76mm | 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm 1.39in/35.2mm |
| 8.92in/226.5mm | 2.99in/76mm | 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm 1.39in/35.2mm |
| 6.04in/153.5mm | 2.99in/76mm | 0.63in/16mm 0.88in/22.4mm 1.11in/28.2mm 1.39in/35.2mm 2in/50.8mm |
| 4.61in/117mm | 4.02in/102mm | 0.79in/20mm |

Note: Vertical dimension is from mounting surface.

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