# DATA SHEET

Date: 18.8.2015

# Non-fusible heavy duty safety switch, single throw
# EOHU365RK

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** | EOHU365RK |
| **Ordering number** | 1SCA131628R1001 |
| **EAN-code** | 6417019608730 |
| **Product Name** | Non-fusible heavy duty safety switch, single throw |
| **UL-file number** | E314773 |
| **CSA-file number** | 58077 |
| **Country of Origin** | Finland |
| **Type of enclosure** | NEMA Type 3R Rainproof |
| **General purpose current rating 600V** | 400A |
| **Number of poles** | 3 |
| **Net Weight** | 84.9lb / 38.5kg |
| **Gross Weight** | 93.2lb / 42.294kg |
| **Standards** | UL98, UL50, NEMA KS1, CSA |
| **Instructions and manuals** | 34 EOHU364-5-6JRS |
| **Type of disconnect** | OT400US30EOH |
| **Switch operating torque** | 336.3lb.in / 38Nm |
| **Min. Electrical endurance power factor 0.7 - 0.8** | 1500 op. cycles |
| **Mechanical endurance** | 7500 op. cycles |
| **Power loss / switch unit** | 30W |
| **Application ambient air temperature** | -30°C/-22°F…40°C/104°F |
| **Max. Power rating  Three phase /240V** | 125HP / 93.25kW |
| **Max. Power rating  Three phase /480V** | 250HP / 186.5kW |
| **Max. Power rating  Three phase /600V** | 350HP / 261.1kW |
| **Max. Power rating  /250Vdc** | 50HP / 37.3kW |
| **Max. motor FLA current  Three phase /120-127V** | 260A |
| **Max. motor FLA current  Three phase /240V** | 312A |
| **Max. motor FLA current  Three phase /480V** | 302A |
| **Max. motor FLA current  Three phase /600V** | 336A |
| **Maximum fuse size** | 400A |
| **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** | 100kA |
| **Class J fuses, short circuit rating  600Vac** | 200kA |
| **Class T fuses, short circuit rating  600Vac** | 200kA |
| **Short circuit rating  250Vdc** | 100kA |
| **Terminal lugs for line and load side terminals** | Line side OZXA-800 / Load side OZXA-800E |
| **Torque: Lug mounting line and load side terminals** | 480lb.in / 54.2Nm |

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| | |
|---|---|
| **Wire size 75°C Copper** | 2x500 kcmil |
| **Wire size 75°C Copper Cross section** | 506mm² |
| **Wire size 75°C Aluminium** | 2x500 kcmil |
| **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 |
| **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** | EOHU5R Type 3R: Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide adegree of protection against falling dirt, rain, sleet, and snow; and that will be undamaged by the external formation of ice on the enclosure. |
| **Cabling direction** | TopBottom |
| **Enclosure colour** | ANSI 61 (light gray) |
| **External Enclosure width/W** | 22.05in / 560mm |
| **External Enclosure height/H** | 39.96in / 1015mm |
| **External Enclosure depth/D** | 8.46in / 215mm |
| **Cable outlets type** | Concentric knockouts |
| **Cable outlets / top (øInch/mm)** | 3x(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)** | 3x(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** | 2 |
| **Number of door locking latches** | 2 |
| **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: metallic insert, glass reinforced polyamide (PA f1)/ Red handle indicator: polycarbonate (PC f1). |
| **Type of packing** | Environment friendly corrugated cardboard |
| **Packingbox width** | 24.6in / 625mm |
| **Packingbox heigth** | 43.9in / 1115mm |
| **Packingbox depth** | 12in / 305mm |
| **Additional information** | Non-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 are to be ordered separately. Not for use as motor controller. |
| **Description FI** | Sulakkeeton turvakytkin raskaaseen käyttöön |
| **Description EN** | Non-fusible heavy duty safety switch |
| **Description FR** | Interrupteur non fusibles de sécurité pour service intensif |
| **Description ES** | Interruptor de seguridad de Servicio Pesado sin fusibles |

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# Non-fusible heavy duty safety switch, single throw EOHU365RK

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

**UL Certificate of Compliance:**
http://www05.abb.com/global/scot/scot209.nsf/veritydisplay/aec18f1adb9e499ec1257d620020cedf/$file/UL%20certificate%20EOHU.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

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

## Field-installable accessories:

| | |
|---|---|
| **Neutral assembly** | EOHXSN56 |
| **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 |
| **Condensation water outlet** | YJTB3/M10 |

## Replacement parts:

| | |
|---|---|
| **Terminal lugs for line and load side terminals** | OZXA-800/3 Line side / OZXA-800E/3 Load side |
| **Grounding terminal** | OZXG2/2 |
| **Switch disconnect** | OT400US30EOHR |
| **Door locking mechanism** | EOHLM4 |
| **Handle assembly** | EOHH2 |

**Technical and product support**:
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## Non-fusible heavy duty safety switch, single throw
## EOHU365RK

**EOHU365RK**

| | | |
|---|---|---|
| **A** | 42.32in | 1075mm |
| **B** | 20.16in | 512mm |
| **F** | 10.08in | 256mm |
| **O** | 5.2in | 132mm |
| **P** | 4.88in | 124mm |
| **G** | 1in | 25.5mm |
| **N** | 1.14in | 29mm |
| **K** | 0.55in | 14mm |
| **L** | 0.55in | 14mm |
| **M** | 0.98in | 25mm |
| **H** | 42.72in | 1085mm |
| **W** | 23in | 584mm |
| **W1** | 24.53in | 623mm |
| **D** | 8.5in | 216mm |
| **E** | 11.61in | 295mm |

**EOHU365RK KNOCKOUT INFORMATION**
**TOP ENDWALL OF ENCLOSURE**

| H horizontal | V vertical (see Note) | Ø Knockout hole diameter |
|---|---|---|
| 7.05in/179mm | 3.03in/77mm | 0.5in/12.7mm 0.75in/19.1mm |
| 11.77in/299mm | 3.03in/77mm | 0.5in/12.7mm 0.75in/19.1mm |
| 4.69in/119mm | 5.2in/132mm | 1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm |
| 9.41in/239mm | 5.2in/132mm | 1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm |
| 14.13in/359mm | 5.2in/132mm | 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.

**EOHU365RK KNOCKOUT INFORMATION**
**BOTTOM ENDWALL OF ENCLOSURE**

| H horizontal | V vertical (see Note) | Ø Knockout hole diameter |
|---|---|---|
| 7.05in/179mm | 3.03in/77mm | 0.5in/12.7mm 0.75in/19.1mm |
| 11.77in/299mm | 3.03in/77mm | 0.5in/12.7mm 0.75in/19.1mm |
| 4.69in/119mm | 5.2in/132mm | 1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm |
| 9.41in/239mm | 5.2in/132mm | 1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm |
| 14.13in/359mm | 5.2in/132mm | 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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