DATA SHEET

Date: 18.8.2015

Non-fusible heavy duty safety switch, single throw
EOHU361JK

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	EOHU361JK
Ordering number	1SCA131642R1001
EAN-code	6417019609003
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 12 Indoor
General purpose current rating 600V	30A
Number of poles	3
Net Weight	16.7lb / 7.59kg
Gross Weight	19.5lb / 8.865kg
Standards	UL98, UL50, NEMA KS1, CSA
Instructions and manuals	34 EOHU361-2-3JRS
Type of disconnect	OT30US30EOH
Switch operating torque	79.7lb.in / 9Nm
Min. Electrical endurance power factor 0.7 - 0.8	8000 op. cycles
Mechanical endurance	15000 op. cycles
Power loss / switch unit	0.3W
Application ambient air temperature	-30°C/-22°F…40°C/104°F
Max. Power rating Single phase /120-127V	2HP / 1.49kW
Max. Power rating Single phase /240V	3HP / 2.24kW
Max. Power rating Single phase /480V	7.5HP / 5.6kW
Max. Power rating Single phase /600V	10HP / 7.46kW
Max. Power rating Three phase /120-127V	3HP / 2.24kW
Max. Power rating Three phase /200-208V	2.24HP / 1.67kW
Max. Power rating Three phase /240V	10HP / 7.46kW
Max. Power rating Three phase /480V	20HP / 14.92kW
Max. Power rating Three phase /600V	30HP / 22.38kW
Max. Power rating /125Vdc	3HP / 2.2kW
Max. Power rating /250Vdc	5HP / 3.7kW
Max. motor FLA current Single phase /120-127V	24A
Max. motor FLA current Single phase /240V	17A
Max. motor FLA current Single phase /480V	21A
Max. motor FLA current Single phase /600V	20A
Max. motor FLA current Three phase /120-127V	19.2A
Max. motor FLA current Three phase /240V	22A
Max. motor FLA current Three phase /480V	21A

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Max. motor FLA current Three phase /600V	22A
Maximum fuse size	30A
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
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	AWG8
Wire size 60°C Copper Cross section	8.4mm²
Wire size 60°C Aluminium	AWG8
Wire size 60°C Aluminium Cross section	8.4mm²
Wire size 75°C Copper	AWG8
Wire size 75°C Copper Cross section	8.4mm²
Wire size 75°C Aluminium	AWG8
Wire size 75°C Aluminium Cross section	8.4mm²
Torque: line and load side wire tightening	AWG8: 40 lb.in, AWG10-14: 35 lb.in / AWG8: 4.5 Nm, AWG10-14: 4 Nm
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	EOHU1J 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	9.17in / 233mm
External Enclosure depth/D	6.22in / 158mm
Cable outlets type	Concentric knockouts
Cable outlets / top (øInch/mm)	3x(ø1/25.4+ø0.75/19.05+ø0.5/12.7+ø0.315/8)+ø0.25/6.35
Cable outlets / bottom (øInch/mm)	3x(ø1/25.4+ø0.75/19.05+ø0.5/12.7+ø0.315/8)+ø0.25/6.35
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: 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	13in / 330mm
Packingbox depth	9.3in / 235mm

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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.
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

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	EOHXSN13
Auxiliary contact NO type to be added	OA1G10
Auxiliary contact NC type to be added	OA3G01
Terminal cover Line side	OTS250G1S/3
Terminal cover Load side	OTS250G1S/3
Hubs	H050-TB, H075-TB

Replacement parts:

Terminal lugs for line and load side terminals	OZXA-100/3
Grounding terminal	OZXG1/2
Switch disconnect	OT30US30EOHR
Door locking mechanism	EOHLM2
Handle assembly	EOHH1

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A	10.75in	273mm
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	11.54in	293mm
H1	12.4in	315mm
W	12.8in	325mm
W1	14.49in	368mm
D	6.14in	156mm
E	8.7in	221mm

EOHU361JK KNOCKOUT INFORMATION
TOP ENDWALL OF ENCLOSURE

H horizontal	V vertical (see Note)	Ø Knockout hole diameter
5.33in/135.5mm	1.67in/42.5mm	0.25in/6.35mm
4.49in/114mm	2.99in/76mm	0.31in/8mm 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm
6.18in/157mm	2.99in/76mm	0.31in/8mm 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm
7.87in/200mm	2.99in/76mm	0.31in/8mm 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm

Note: Vertical dimension is from mounting surface.

EOHU361JK KNOCKOUT INFORMATION
BOTTOM ENDWALL OF ENCLOSURE

H horizontal	V vertical (see Note)	Ø Knockout hole diameter
5.33in/135.5mm	1.67in/42.5mm	0.25in/6.35mm
4.49in/114mm	2.99in/76mm	0.31in/8mm 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm
6.18in/157mm	2.99in/76mm	0.31in/8mm 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm
7.87in/200mm	2.99in/76mm	0.31in/8mm 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm

Note: Vertical dimension is from mounting surface.

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