DATA SHEET

Date: 18.8.2015

Non-fusible heavy duty safety switch, single throw
EOHU363JK

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	EOHU363JK
Ordering number	1SCA131644R1001
EAN-code	6417019609027
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	100A
Number of poles	3
Net Weight	19lb / 8.62kg
Gross Weight	23.6lb / 10.721kg
Standards	UL98, UL50, NEMA KS1, CSA
Instructions and manuals	34 EOHU361-2-3JRS
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	3W
Application ambient air temperature	-30°C/-22°F…40°C/104°F
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	40HP / 29.84kW
Max. Power rating Three phase /480V	75HP / 55.95kW
Max. Power rating Three phase /600V	100HP / 74.6kW
Max. Power rating /125Vdc	10HP / 7.5kW
Max. Power rating /250Vdc	25HP / 18.7kW
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
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
Class RK fuses, short circuit rating 480Vac	200kA

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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
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	AWG1
Wire size 75°C Copper Cross section	42.4mm²
Wire size 75°C Aluminium	AWG1
Wire size 75°C Aluminium Cross section	42.4mm²
Torque: line and load side wire tightening	AWG1-3: 50 lb.in, AWG4-6: 45 lb.in, AWG8: 40 lb.in, AWG10-14: 35 lb.in / AWG1-3: 5.6 Nm, AWG4-6: 5.1 Nm, 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	EOHU3J 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	14.72in / 374mm
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
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	15.4in / 392mm
Packingbox heigth	17.7in / 450mm
Packingbox depth	9.3in / 236mm

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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, H100-TB, H150-TB

Replacement parts:

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

Technical and product support:
ABB OY Breakers and Switches
P.O.Box 622
FI-65101 Vaasa, Finland
Phone: +358 102211
e-Mail: switch.technicalservice@fi.abb.com

Sales in USA:
ABB Inc. / USA
16250 W Glendale Drive
New Berlin, WI 53151, USA
Phone: 888-385-1221
e-Mail: lvps.support@us.abb.com

Sales in Canada:
ABB Inc. / CANADA
2117, 32nd Avenue
Lachine, QC H8T 3J1, Canada
Phone: 514-420-3100
e-Mail: lvp.support@ca.abb.com

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A	16.69in	424mm
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	17.32in	440mm
W	12.8in	325mm
W1	14.49in	368mm
D	6.14in	156mm
E	8.7in	221mm

EOHU363JK 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.

EOHU363JK 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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