DATA SHEET

Date: 18.8.2015

Non-fusible heavy duty safety switch, single throw
EOHU363S

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	EOHU363S
Ordering number	1SCA132027R1001
EAN-code	6417019611945
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 4/4X Watertight
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	EOHU3S Type 4/4X: 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 a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water, and corrosion (4X); and that will be undamaged by the external formation of ice on the enclosure. Material AISI304.
Cabling direction	TopBottom
Enclosure colour	Unpainted stainless steel grade 304
External Enclosure width/W	12.09in / 307mm
External Enclosure height/H	14.72in / 374mm
External Enclosure depth/D	6.22in / 158mm
Cable outlets type	Blank
Cable outlets / top (øInch/mm)	Blank
Cable outlets / bottom (øInch/mm)	Blank
Number of door hinges	2
Number of door locking latches	2
Enclosure material specification	Stainless steel AISI304 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 grade 304 unpainted stainless 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

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	H075CP-TB, H100CP-TB, H125CP-TB, H200CP-TB, H250CP-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	EOHHS1

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A	16.69in	364mm
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	384mm
W	12.8in	336mm
W1	14.49in	368mm
D	6.14in	160mm
E	8.7in	229mm

EOHU363S KNOCKOUT INFORMATION
TOP ENDWALL OF ENCLOSURE

No factory-made knockouts.

Drillings or cutting for purpose-made cabling accessories is allowed inside blank surface A:

Width: 7.12in / 181mm

Depth: 3.82in / 97mm

Note: Vertical dimension is from mounting surface.

EOHU363S KNOCKOUT INFORMATION
BOTTOM ENDWALL OF ENCLOSURE

No factory-made knockouts.

Drillings or cutting for purpose-made cabling accessories is allowed inside blank surface B:

Width: 7.12in / 181mm

Depth: 3.82in / 97mm

Note: Vertical dimension is from mounting surface.

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