DATA SHEET

Date: 18.8.2015

Fusible heavy duty safety switch with neutral, single throw EOH363NK

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	EOH363NK
Ordering number	1SCA138585R1001
EAN-code	6417019668642
Product Name	Fusible heavy duty safety switch with neutral, single throw
UL-file number	E314773
CSA-file number	58077
Country of Origin	Finland
Type of enclosure	NEMA Type 1 Indoor
General purpose current rating 600V	100A
Number of poles	3
Net Weight	34.5lb / 15.665kg
Gross Weight	40.1lb / 18.18kg
Standards	UL98, UL50, UL4248-1, NEMA KS1, CSA
Instructions and manuals	34 EOH361-2-3
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
Neutral bus included	EOHXSN13
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	EOH3 Type 1: Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection against falling dirt.
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
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

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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. Neutral assembly with bonding jumper is included. Suitable only for use as service equipment. Grounding bus is included. Padlockable in OFF-position with 3 padlocks of bail max. diameter 0.25in/6.4mm. Releasable door interlocking mechanism. Enclosure opening edge is provided with protective rubber gasket profile. 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/dafea45d4ebaf375c1257d230031fdcc/$file/1SCC340029M1401.pdf

Drawing/PDF:
http://www05.abb.com/global/scot/scot209.nsf/veritydisplay/4d3744da487943ccc1257c98005708d2/$file/Z13_EOH363K.PDF

Drawing/IGES:
http://search-ext.abb.com/library/Download.aspx?DocumentID=EOH363K.igs&LanguageCode=en&DocumentPartId=&Action=Launch

Field-installable accessories:

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	EOHLM1
Handle assembly	EOHH1

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A	13.78in	350mm
B	26.02in	661mm
C1	0.31in	8mm
C2	0.79in	20mm
F	6.89in	175mm
L	0.39in	10mm
M	0.87in	22mm
H	29.33in	745mm
W	12.91in	328mm
W1	14.41in	366mm
D	6.46in	164mm
E	8.7in	221mm

EOH363NK KNOCKOUT INFORMATION
TOP ENDWALL OF ENCLOSURE

H horizontal	V vertical (see Note)	Ø Knockout hole diameter
4.7in/119.5mm	1.34in/34mm	0.25in/6.35mm
3.27in/83mm	2.64in/67mm	0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm 1.39in/35.2mm
9.02in/229mm	2.64in/67mm	0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm 1.39in/35.2mm
6.14in/156mm	2.64in/67mm	0.63in/16mm 0.88in/22.4mm 1.11in/28.2mm 1.39in/35.2mm 2in/50.8mm
4.7in/119.5mm	4.02in/102mm	0.79in/20mm

Note: Vertical dimension is from mounting surface.

EOH363NK KNOCKOUT INFORMATION
BOTTOM ENDWALL OF ENCLOSURE

H horizontal	V vertical (see Note)	Ø Knockout hole diameter
4.7in/119.5mm	1.34in/34mm	0.25in/6.35mm
3.27in/83mm	2.64in/67mm	0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm 1.39in/35.2mm
9.02in/229mm	2.64in/67mm	0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm 1.39in/35.2mm
6.14in/156mm	2.64in/67mm	0.63in/16mm 0.88in/22.4mm 1.11in/28.2mm 1.39in/35.2mm 2in/50.8mm
4.7in/119.5mm	4.02in/102mm	0.79in/20mm

Note: Vertical dimension is from mounting surface.

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