DATA SHEET

Date: 18.8.2015

Fusible heavy duty safety switch with neutral, single throw EOH361NK

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	EOH361NK
Ordering number	1SCA138573R1001
EAN-code	6417019668321
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	30A
Number of poles	3
Net Weight	22.4lb / 10.172kg
Gross Weight	23.8lb / 10.8kg
Standards	UL98, UL50, UL4248-1, NEMA KS1, CSA
Instructions and manuals	34 EOH361-2-3
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 excluding fusegear	0.3W
Application ambient air temperature	-30°C/-22°F…40°C/104°F
Standard Power rating Single phase /120-127V	0.5HP / 0.37kW
Standard Power rating Single phase /240V	1.5HP / 1.12kW
Standard Power rating Single phase /480V	3HP / 2.24kW
Standard Power rating Single phase /600V	3HP / 2.24kW
Standard Power rating Three phase /120-127V	1.5HP / 1.12kW
Standard Power rating Three phase /240V	3HP / 2.24kW
Standard Power rating Three phase /480V	5HP / 3.73kW
Standard Power rating Three phase /600V	7.5HP / 5.6kW
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	7.5HP / 5.6kW
Max. Power rating Three phase /480V	15HP / 11.19kW
Max. Power rating Three phase /600V	20HP / 14.92kW
Max. Power rating /125Vdc	3HP / 2.2kW

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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
Max. motor FLA current Three phase /600V	22A
Maximum fuse size	30A
Fuse clips	Class H, K, RK1-5 to be equipped with field-installable rejection members, provision to relocate fuse base for class J
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
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	AWG6
Wire size 60°C Copper Cross section	13.3mm²
Wire size 60°C Aluminium	AWG6
Wire size 60°C Aluminium Cross section	13.3mm²
Wire size 75°C Copper	AWG6
Wire size 75°C Copper Cross section	13.3mm²
Wire size 75°C Aluminium	AWG6
Wire size 75°C Aluminium Cross section	13.3mm²
Torque: line and load side wire tightening	AWG6: 45 lb.in, AWG8: 40 lb.in, AWG10-14: 35 lb.in / AWG6: 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
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	EOH1 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	17.05in / 433mm
External Enclosure depth/D	6.22in / 158mm
Cable outlets type	Concentric knockouts
Cable outlets / top (øInch/mm)	3x(ø1/25.4+ø0.75/19.1+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

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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	20.9in / 530mm
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/6b83466e5856a8ecc1257c980054aab6/$file/Z13_EOH361K.PDF

Drawing/IGES:
http://search-ext.abb.com/library/Download.aspx?DocumentID=EOH361K.igs&LanguageCode=en&DocumentPartId=&Action=Launch

Field-installable accessories:

Fuse rejection member kits	EOHRM1R 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

Replacement parts:

Terminal lugs for line and load side terminals	OZXA-100/3
Grounding terminal	OZXG1/2
Switch disconnect	OT30US30EOHR
Fuse base kits	EOHFBR1
Door locking mechanism	EOHLM1
Handle assembly	EOHH1

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EOH361NK

A	9.72in	247mm
B	14.69in	373mm
C1	0.31in	8mm
C2	0.79in	20mm
F	4.88in	124mm
L	0.28in	7mm
M	0.67in	17mm
H	17.99in	457mm
W	12.91in	328mm
W1	14.41in	366mm
D	6.46in	164mm
E	8.7in	221mm

EOH361NK KNOCKOUT INFORMATION
TOP ENDWALL OF ENCLOSURE

H horizontal	V vertical (see Note)	Ø Knockout hole diameter
5.33in/135.5mm	1.34in/34mm	0.25in/6.35mm
4.49in/114mm	2.64in/67mm	0.31in/8mm 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm
6.18in/157mm	2.64in/67mm	0.31in/8mm 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm
7.87in/200mm	2.64in/67mm	0.31in/8mm 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm

Note: Vertical dimension is from mounting surface.

EOH361NK KNOCKOUT INFORMATION
BOTTOM ENDWALL OF ENCLOSURE

H horizontal	V vertical (see Note)	Ø Knockout hole diameter
5.33in/135.5mm	1.34in/34mm	0.25in/6.35mm
4.49in/114mm	2.64in/67mm	0.31in/8mm 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm
6.18in/157mm	2.64in/67mm	0.31in/8mm 0.5in/12.7mm 0.75in/19.1mm 1.11in/28.2mm
7.87in/200mm	2.64in/67mm	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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