DATA SHEET

Date: 18.8.2015

Fusible heavy duty safety switch with neutral, single throw EOH365NK

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	EOH365NK
Ordering number	1SCA138594R1001
EAN-code	6417019668734
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	400A
Number of poles	3
Net Weight	109.1lb / 49.48kg
Gross Weight	119.1lb / 54.019kg
Standards	UL98, UL50, UL4248-1, NEMA KS1, CSA
Instructions and manuals	34 EOH364-5-6
Type of disconnect	OT400US30EOH
Switch operating torque	336.3lb.in / 38Nm
Min. Electrical endurance power factor 0.7 - 0.8	1500 op. cycles
Mechanical endurance	7500 op. cycles
Power loss / switch unit excluding fusegear	30W
Application ambient air temperature	-30°C/-22°F…40°C/104°F
Standard Power rating Three phase /240V	50HP / 37.3kW
Standard Power rating Three phase /480V	100HP / 74.6kW
Standard Power rating Three phase /600V	125HP / 93.25kW
Max. Power rating Three phase /240V	125HP / 93.25kW
Max. Power rating Three phase /480V	250HP / 186.5kW
Max. Power rating Three phase /600V	350HP / 261.1kW
Max. Power rating /250Vdc	50HP / 37.3kW
Max. motor FLA current Three phase /120-127V	260A
Max. motor FLA current Three phase /240V	312A
Max. motor FLA current Three phase /480V	302A
Max. motor FLA current Three phase /600V	336A
Maximum fuse size	400A
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

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Class RK fuses, short circuit rating 600Vac	100kA
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	Line side OZXA-800 / Load side OZXA-800E
Torque: Lug mounting line and load side terminals	480lb.in / 54.2Nm
Wire size 75°C Copper	2x500 kcmil
Wire size 75°C Copper Cross section	506mm²
Wire size 75°C Aluminium	2x500 kcmil
Wire size 75°C Aluminium Cross section	506mm²
Torque: line and load side wire tightening	500lb.in / 56.5Nm
Grounding terminal included in delivery	2xOZXG2
Grounding terminal wire range	250kcmil - AWG6
Torque: grounding wire tightening	275lb.in / 31.1Nm
Neutral bus included	EOHXSN56
Auxiliary contacts included	Field-installable auxiliary contacts mountable in switch mechanism are to be ordered separately.
Max. number of auxiliary contacts to be added	4no+4nc (early break)
Enclosure construction type	EOH5 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	22.05in / 560mm
External Enclosure height/H	55.12in / 1400mm
External Enclosure depth/D	8.5in / 216mm
Cable outlets type	Concentric knockouts
Cable outlets / top (øInch/mm)	3x(ø3.62/92+ø3/76.2+ø2.5/63.5+ø2/50.8+ø1.57/40)+2x(ø0.75/19.05+ø0.5/12.7)
Cable outlets / bottom (øInch/mm)	3x(ø3.5/88.9+ø3/76.2+ø2.5/63.5+ø2/50.8+ø1.57/40)+2x(ø0.75/19.05+ø0.5/12.7)
Number of door hinges	3
Number of door locking latches	3
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: metallic insert, glass reinforced polyamide (PA f1)/ Red handle indicator: polycarbonate (PC f1).
Type of packing	Environment friendly corrugated cardboard
Packingbox width	24.4in / 620mm
Packingbox heigth	59.1in / 1500mm
Packingbox depth	12in / 305mm
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. Not for use as motor controller.

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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/32753b9528f44814c1257d230034a00e/$file/1SCC340032M1401.pdf

Drawing/PDF:
http://www05.abb.com/global/scot/scot209.nsf/veritydisplay/787d76b98b065663c1257c980058eb19/$file/Z13_EOH365K.PDF

Drawing/IGES:
http://search-ext.abb.com/library/Download.aspx?DocumentID=EOH365K.igs&LanguageCode=en&DocumentPartId=&Action=Launch

Field-installable accessories:

Fuse mounting kits	EOHFBK5 for Class T 400A fuses
Fuse rejection member kits	EOHRM5R for Class RK1-5 fuses
Auxiliary contact NO type to be added	OA1G10
Auxiliary contact NC type to be added	OA3G01
Hubs	H050-TB, H125-TB, H150-TB, H200-TB, H250-TB, H300-TB

Replacement parts:

Terminal lugs for line and load side terminals	OZXA-800/3 Line side / OZXA-800E/3 Load side
Grounding terminal	OZXG2/2
Switch disconnect	OT400US30EOHR
Fuse base kits	EOHFBR5LU
Door locking mechanism	EOHLM6
Handle assembly	EOHH2

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A	19.69in	500mm
B	52.76in	1340mm
C1	0.31in	8mm
C2	0.79in	20mm
F	9.84in	250mm
L	0.51in	13mm
M	0.98in	25mm
H	56.06in	1424mm
W	23in	584mm
W1	24.49in	622mm
D	8.5in	216mm
E	10.95in	278mm

EOH365NK KNOCKOUT INFORMATION
TOP ENDWALL OF ENCLOSURE

H horizontal	V vertical (see Note)	Ø Knockout hole diameter
7.05in/179mm	2.67in/67.9mm	0.5in/12.7mm 0.75in/19.1mm
11.77in/299mm	2.67in/67.9mm	0.5in/12.7mm 0.75in/19.1mm
4.69in/119mm	4.84in/122.9mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
9.41in/239mm	4.84in/122.9mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
14.13in/359mm	4.84in/122.9mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm

Note: Vertical dimension is from mounting surface.

EOH365NK KNOCKOUT INFORMATION
BOTTOM ENDWALL OF ENCLOSURE

H horizontal	V vertical (see Note)	Ø Knockout hole diameter
7.05in/179mm	2.67in/67.9mm	0.5in/12.7mm 0.75in/19.1mm
11.77in/299mm	2.67in/67.9mm	0.5in/12.7mm 0.75in/19.1mm
4.69in/119mm	4.84in/122.9mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
9.41in/239mm	4.84in/122.9mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
14.13in/359mm	4.84in/122.9mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm

Note: Vertical dimension is from mounting surface.

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