DATA SHEET

Date: 18.8.2015

Fusible heavy duty safety switch with neutral, single throw EOH366NRK

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	EOH366NRK
Ordering number	1SCA138600R1001
EAN-code	6417019668789
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 3R Rainproof
General purpose current rating 600V	600A
Number of poles	3
Net Weight	153.7lb / 69.72kg
Gross Weight	165lb / 74.846kg
Standards	UL98, UL50, UL4248-1, NEMA KS1, CSA
Instructions and manuals	34 EOH364-5-6JRS
Type of disconnect	OT600US30EOH
Switch operating torque	354lb.in / 40Nm
Min. Electrical endurance power factor 0.7 - 0.8	1200 op. cycles
Mechanical endurance	6000 op. cycles
Power loss / switch unit excluding fusegear	20.4W
Application ambient air temperature	-30°C/-22°F…40°C/104°F
Standard Power rating Three phase /240V	75HP / 55.95kW
Standard Power rating Three phase /480V	150HP / 111.9kW
Standard Power rating Three phase /600V	200HP / 149.2kW
Max. Power rating Three phase /240V	200HP / 149.2kW
Max. Power rating Three phase /480V	400HP / 298.4kW
Max. Power rating Three phase /600V	500HP / 373kW
Max. Power rating /250Vdc	50HP / 37.3kW
Max. motor FLA current Three phase /240V	480A
Max. motor FLA current Three phase /480V	477A
Max. motor FLA current Three phase /600V	472A
Maximum fuse size	600A
Fuse clips	Class H, K, RK1-5 to be equipped with field-installable rejection members, mounting screw kit and 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

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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-800
Torque: Lug mounting line and load side terminals	480lb.in / 54.2Nm
Wire size 75°C Copper	2x600 kcmil
Wire size 75°C Copper Cross section	608mm²
Wire size 75°C Aluminium	2x600 kcmil
Wire size 75°C Aluminium Cross section	608mm²
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	EOH6R Type 3R: 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 adegree of protection against falling dirt, rain, sleet, and snow; and that will be undamaged by the external formation of ice on the enclosure.
Cabling direction	TopBottom
Enclosure colour	ANSI 61 (light gray)
External Enclosure width/W	22.05in / 560mm
External Enclosure height/H	63.39in / 1610mm
External Enclosure depth/D	8.54in / 217mm
Cable outlets type	Concentric knockouts
Cable outlets / top (øInch/mm)	4x(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)	4x(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	4
Enclosure material specification	Corrosion resistant steel, paint: polyester powder coating 70+/-10µm, material thickness: door 0.079in/2mm, enclosure 0.079in/2mm, 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	67.3in / 1710mm
Packingbox depth	12in / 305mm
Additional information	Fusible heavy duty safety switch in painted steel sheet enclosure. Mounting screw kit for class J fuses is included. 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. Mounting screw kit for class J fuses is included. 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.
Description FI	Sulakkeellinen turvakytkin raskaaseen käyttöön

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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/a3bb063993783c7cc1257c990033a226/$file/Z13_EOH366JK.PDF

Drawing/IGES:
http://new.abb.com/low-voltage/launches/safetyswitches/fusible-safety-switches

Field-installable accessories:

Fuse mounting kits	EOHFBK6 for Class J 600A fuses, included in delivery
Fuse rejection member kits	EOHRM6R 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
Condensation water outlet	YJTB3/M10

Replacement parts:

Terminal lugs for line and load side terminals	OZXA-800/3
Grounding terminal	OZXG2/2
Switch disconnect	OT600US30EOHR
Fuse base kits	EOHFBR6LU
Door locking mechanism	EOHLM4
Handle assembly	EOHH2

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EOH366NRK

A	65.75in	1670mm
B	20.16in	512mm
F	10.08in	256mm
O	5.2in	132mm
P	4.82in	122.5mm
G	1in	25.5mm
N	1.14in	29mm
K	0.55in	14mm
L	0.55in	14mm
M	0.98in	25mm
H	66.93in	1700mm
W	22.99in	584mm
W1	24.53in	623mm
D	8.5in	216mm
E	11.61in	295mm

EOH366NRK KNOCKOUT INFORMATION
TOP ENDWALL OF ENCLOSURE

H horizontal	V vertical (see Note)	Ø Knockout hole diameter
5.53in/140.5mm	3.13in/79.5mm	0.5in/12.7mm 0.75in/19.1mm
16.52in/419.5mm	3.13in/79.5mm	0.5in/12.7mm 0.75in/19.1mm
2.79in/70.8mm	5.1in/129.5mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
8.28in/210.3mm	5.1in/129.5mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
13.77in/349.8mm	5.1in/129.5mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
19.26in/489.3mm	5.1in/129.5mm	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.

EOH366NRK KNOCKOUT INFORMATION
BOTTOM ENDWALL OF ENCLOSURE

H horizontal	V vertical (see Note)	Ø Knockout hole diameter
5.53in/140.5mm	3.13in/79.5mm	0.5in/12.7mm 0.75in/19.1mm
16.52in/419.5mm	3.13in/79.5mm	0.5in/12.7mm 0.75in/19.1mm
2.79in/70.8mm	5.1in/129.5mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
8.28in/210.3mm	5.1in/129.5mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
13.77in/349.8mm	5.1in/129.5mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
19.26in/489.3mm	5.1in/129.5mm	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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