DATA SHEET

Date: 18.8.2015

Non-fusible heavy duty safety switch, single throw
EOHU366K

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	EOHU366K
Ordering number	1SCA130978R1001
EAN-code	6417019601809
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 1 Indoor
General purpose current rating 600V	600A
Number of poles	3
Net Weight	102.1lb / 46.32kg
Gross Weight	112.3lb / 50.952kg
Standards	UL98, UL50, NEMA KS1, CSA
Instructions and manuals	34 EOHU364-5-6
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	20.4W
Application ambient air temperature	-30°C/-22°F…40°C/104°F
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
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
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

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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
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	EOHU6 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	46.46in / 1180mm
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	2
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	24.6in / 625mm
Packingbox heigth	55.1in / 1400mm
Packingbox depth	12in / 305mm
Additional information	Non-fusible heavy duty safety switch in painted 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. Enclosure opening edge is provided with protective rubber gasket profile. Field-installable accessories are to be ordered separately. Not for use as motor controller.
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

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Technical information:
http://new.abb.com/low-voltage/launches/safetyswitches

UL Certificate of Compliance:
http://www05.abb.com/global/scot/scot209.nsf/veritydisplay/aec18f1adb9e499ec1257d620020cedf/$file/UL%20certificate%20EOHU.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

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

Field-installable accessories:

Neutral assembly	EOHXSN56
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
Grounding terminal	OZXG2/2
Switch disconnect	OT600US30EOHR
Door locking mechanism	EOHLM6
Handle assembly	EOHH2

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A	19.69in	500mm
B	44.09in	1120mm
C1	0.31in	8mm
C2	0.79in	20mm
F	9.84in	250mm
L	1.56in	14.3mm
M	0.98in	25mm
H	47.4in	1204mm
W	22.99in	584mm
W1	24.53in	623mm
D	8.78in	223mm
E	10.83in	286mm

EOHU366K KNOCKOUT INFORMATION
TOP ENDWALL OF ENCLOSURE

H horizontal	V vertical (see Note)	Ø Knockout hole diameter
5.53in/140.5mm	2.78in/70.5mm	0.5in/12.7mm 0.75in/19.1mm
16.52in/419.5mm	2.78in/70.5mm	0.5in/12.7mm 0.75in/19.1mm
2.79in/70.8mm	4.74in/120.5mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
8.28in/210.3mm	4.74in/120.5mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
13.77in/349.8mm	4.74in/120.5mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
19.26in/489.3mm	4.74in/120.5mm	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.

EOHU366K KNOCKOUT INFORMATION
BOTTOM ENDWALL OF ENCLOSURE

H horizontal	V vertical (see Note)	Ø Knockout hole diameter
5.53in/140.5mm	2.78in/70.5mm	0.5in/12.7mm 0.75in/19.1mm
16.52in/419.5mm	2.78in/70.5mm	0.5in/12.7mm 0.75in/19.1mm
2.79in/70.8mm	4.74in/120.5mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
8.28in/210.3mm	4.74in/120.5mm	1.75in/44.4mm 2in/50.8mm 2.46in/62.50mm 3.01in/76.5mm 3.62in/92mm
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19.26in/489.3mm	4.74in/120.5mm	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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