

## Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.

This certificate is issued to:

<b>PRODUCER</b>	<b>ABB Oy, Low Voltage Products</b>
<b>PLACE OF PRODUCTION</b>	P.O. Box 622, Muottitie 2A' FIN-65101 VAASA Finland
<b>DESCRIPTION</b>	3 or 4 Pole Switch-Disconnecter-Fuse with Un=415, 500V, 690V, 50-60Hz;
<b>TYPE</b>	OS315; OS400; OS630; OS800  Type Designation OS <sup>400</sup> <sup>D</sup> <sup>S</sup> <sup>22</sup> <sup>H</sup> <sup>N1</sup> <sup>P</sup>  <sup>1</sup> Switch size: 315, 400, 600, 630 or 800 <sup>2</sup> Fuse type: B/BS: BS. D/DS: DIN. J: Fuse J: L: Fuse L <sup>3</sup> S: Side operated Switch. Blanco: Front operated Switch <sup>4</sup> Number of poles & Place of mechanism <sup>5</sup> H:silver layer 20µ. Blanco: Silver Layer 7µ <sup>6</sup> Fourth Pole: F: Fused Neutral. N1 Swith neutral left side. N2 Switch neutral on right side. N3: Neutral bar through the mechanism <sup>7</sup> P: Incl Handle & Shaft K: Direct Handle. Blanco:w/o Handle & Shaft
<b>APPLICATION</b>	Marine and Offshore installations in environmental categories ENV1, ENV2 and ENV3 as defined in LR TA Test Specification No1:2002 where the location/service is applicable
<b>ADDITIONAL TESTS</b>	Low Temperature Test to -25°C-16hrs Shock Test Half sine puls. Peak 10.2g-11msec.
<b>STANDARD</b>	IEC60947-1, EN60947-1 IEC60947-3, EN60947-3
<b>Certificate No.</b>	10/70013
<b>Issue Date</b>	22 February 2010
<b>Expiry Date</b>	21 February 2015
<b>Sheet</b>	1 of 2



Poul Erik Hansen

Copenhagen Design Support Centre

Lloyd's Register EMEA  
Strandvejen 104A, DK-2900 Hellerup

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IEC60068-2-27, Test Ea  
IEC60068-2-1, Test Ab

## CONDITIONS

De-rating of In shall be applied when used in Marine Installations to be Classed by LR for use in ambient temperatures of 45°C. The Switch shall be rated according to the section 5.3.2 and equipped as per section 5.3.3

## RATINGS

Un=415V-690V, 50-60Hz; Ui=1000V, Uimp= 12kV  
Utilisation cat. AC-21A; AC-22A; AC-23A and AC21B; AC22B; AC23B for OS630-4 Pole  
Icw=14kA-1sec (OS315 -400)  
Icm=690V/28kA (OS315-400)  
Rated conditional s/c current (rms):  
OS315-400 A : 500V/100kA; 690V/80kA  
OS 630-800 (3 pole) : 415V/80kA; 500V/100kA; 690V/80kA  
OS 630-800 (4 pole) : 415V/80kA; 500V/100kA; 690V/100kA

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The Design Appraisal Document No.TA10/70013 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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