

Type Approval Certificate Extension

This is to certify that Certificate No. 05/00020 for the undemoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	ABB Oy, Low Voltage Switches
PLACE OF PRODUCTION	P.O. Box 622, FIN-65101 VAASA Finland
DESCRIPTION	Switch-Disconnecter-Fuse-see definition in EN60947- 3 or 4 Pole, manually operated
TYPE	OS200_, OS250_ Type Designation Key: OS ¹⁾ _200 ²⁾ _D ³⁾ _S ⁴⁾ _40 ⁵⁾ _F ⁶⁾ _K ⁷⁾ _H ⁸⁾ ¹⁾ Type Marking ²⁾ Switch Size (rated current): 200, 250 ³⁾ Type of fuse holder: B= BS type fuse, D= DIN 0 fuse, DZ=DIN 00 fuse, J= UL type J fuse ⁴⁾ S: Side operated BLANCO: front operated ⁵⁾ Poles (according to side of mechanism) 3 poles: 12, 21, 30, 03 4 poles: 13, 31, 22, 40, 04 ⁶⁾ Fourth pole F: Fusible N1: Neutral Pole left side N2: Neutral Pole right side ⁷⁾ K: Direct Handle P: Handle & Shaft inc BLANCO= w/o handle & shaf ⁸⁾ H= Silver Layer 20µ
APPLICATION	Marine, Offshore and Industrial application for use in environmental categories ENV1, ENV2 and ENV3 as defined in LR Test Specification No.1:2002 - where the Test Specification is satisfactory for the intended operation.
Certificate No.	10/70105
Issue Date	21 May 2010
Expiry Date	10 April 2015
Sheet	1 of 2


Poul Erik Hansen

Copenhagen design Support Centre

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STANDARD

IEC60947-1, EN60947-1
IEC60068-2-1, Test Ab

IEC60947-3, EN60947-3
IEC60068-2-27, Test Ea

RATINGS

Ue= up to 690V, 50-60Hz
Rated insulation voltage Ui= 1000V
Rated impulse withstand voltage: Uimp=12 kV

Conventional free air/(enclosed)thermal current Ith/Ithe as per table 1 below
Utilization cat. AC-21A; AC-22A; AC-23A: as per table below
Rated conditional s/c current (rms): at 690V or 500V see table below
Table 1

	OS200_	OS250_
AC21A	200A@690V	250A@690V
AC22A	200A@690V:	250A@690V
AC23A	200A@690V	250A@690V
Ith/Ithe	200A/200A	250A/-
I sc,cond	500V:100kA	500V:100kA
3 pole	690V: 80kA	690V: 80kA
Icw	8kA-1 sec	8kA-1 sec
Icm	14 kA	14 kA

CONDITIONS

In Marine Installation Classed by LR de-rating of Ithe to an ambient temperature of 45°C may be applicable according to Part 6, Chapter 2, section 5.3 of the Ships Rules. Means of locking in open position and provision of or padlocks as required.

"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 attached Design Appraisal Document No.TA10/70105 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 05/00020 to which this extension should be attached.

Certificate No. 10/70105
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Sheet 2 of 2


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