

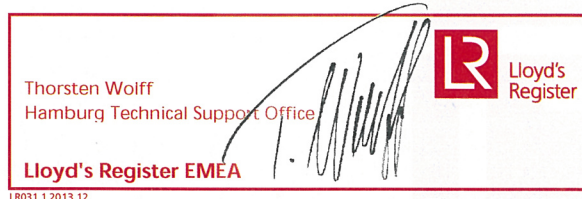
Type Approval Certificate

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

This certificate is issued to:

PRODUCER	ABB Oy, Medium Voltage Products	
PLACE OF PRODUCTION	P.O.Box 699, Muottitie 2A FI -65101 Vaasa, Finland	
DESCRIPTION	630 Series - protection relays	
TYPE	Feeder protection and control	REF630
	Motor protection and control	REM630
	Transformer protection and control	RET630
	Generator protection and control	REG630
APPLICATION	Marine applications for use in environmental categories ENV 1 and ENV 2 as defined in Lloyd's Register's Type Approval System, Test Specification No. 1- 2013.	
STANDARDS	IEC60255-5: 2000	
	IEC60255-6: 1988	
	IEC60255-11: 2008	
	IEC60255-21-1: 1988	
	IEC60255-21-2: 1988	
	IEC60255-21-3: 1993	
	IEC60255-22-1: 2007	
	IEC60255-22-2: 2008	
	IEC60255-22-3: 2007	
	IEC60255-22-4: 2008	

Certificate No.	15/20044
Issue Date	10 June 2015
Expiry Date	9 June 2020
Sheet	1 of 2



Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Lloyd's
Register

STANDARDS (continues)

IEC60255-22-5: 2002
IEC60255-22-6: 2001
IEC60255-22-7: 2003
IEC60255-25: 2000
IEC60255-26: 2008
IEC60255-27: 2005

RATINGS

Power supply

Type 600SM02

Voltages

$U_{aux \text{ nominal}}$ 100, 110, 120, 220, 240 V AC,

Frequency:

$f_{aux \text{ nominal}}$ 50 and 60 Hz

$U_{aux \text{ nominal}}$ 48, 60, 110, 125 V DC

Type 600SM03

Voltages

$U_{aux \text{ nominal}}$ 110, 125, 220, 250 V DC

Energizing inputs:

Frequency:

f 50 and 60 Hz

Rated current:

I_n 0.2 to 0.5A with Residual current

I_n 1 to 5A with Phase currents or residual current

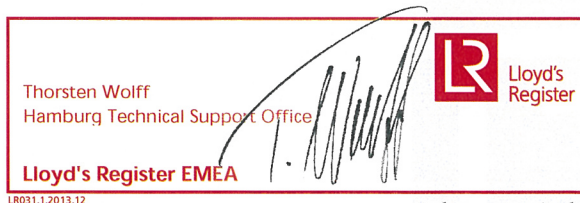
Rated voltage:

U_n 100, 110, 115, 120 V AC

"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. HTS/ETS 31756-15 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 15/20044
Issue Date 10 June 2015
Expiry Date 9 June 2020
Sheet 2 of 2



LR031.1.2013.12

Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.