

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:

PRODUCER ABB Stotz-Kontakt GmbH
Hauptstrasse 12-16
78132 Hornberg
Germany

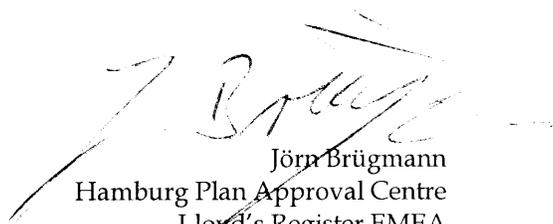
PLACE OF PRODUCTION BI VAB VAVA
Krokuvos g5-1
2005 Vilnius
Lithuania

DESCRIPTION Plug-in Relay and Socket

CR	X	XXX	XX	X	(L)	(G)
	①	②	③	④		

	Code	Description
① Type	M	Miniature Relays
	U	Universal Relays
② Rated Supply Voltage in [V]	012	Only DC
	024	
	048	
	110	
	120	Only AC
	220	Only DC
	230	Only AC
③ Current Type	AC	
	DC	

Certificate No. 05/20002
Issue Date 20 January 2005
Expiry Date 31 March 2008
Sheet 1 of 2



Jörn Brüggemann
Hamburg Plan Approval Centre
Lloyd's Register EMEA

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

TYPES CONTINUED

	Code	Description
④ Number of contacts	2	2 change over contacts; not for CR-M type
	3	3 change over contacts; not for CR-M type
	4	4 change over contacts
Indication Light	(L)	LED Light
Contact treatment	(G)	Gold plated; only for CR-M type

APPLICATION

Marine, offshore and industrial applications for use in environmental categories ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 1996.

STANDARD

EN 61810-1 : 2004
UL 508 : 1999

RATINGS

CR-M	Operational voltage	250 V AC/DC
	Operating current	6 A
	With Gold contact	6 A
	Power Factor	1
CR-U	Operational voltage	250 V AC/DC
	Operating current	10 A
	Power Factor	1

"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. HEC 12038-05 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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