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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.

Manufacturer	ABB Stotz-Kontakt GmbH	
Address	Eppelheimer Str. 82, Heidelberg, 69123, Germany	
Place of Production	EOLANE TEMARA Lot 14 Zone Industrielle Massira 1, Temara, 12020, Morocco	
Туре	Relays - Electronic Monitors	
Description	Interface Relays and Optocouplers R600 range	
	TYPES Relay modules: RB 121, G, P, PG, R RB 122 G RB 111, R RB 101 R RBR 121, G, P, R RBR 122 G RBR 111, R RBR 101 R Optocoupler modules: OBIC 0100 OBOC 2000, 5000 OBOA 1000, 2000 OBRIC 0100 OBROC 2000, 5000	

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Senior Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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OBROA 1000, 2000

Trade Name	RB, RBR, OBIC, OBOC, OBRIC, OBROC and OBROA		
Application	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2002.		
Specified Standard	EN 60947-5-1:2017 + AC:2020-05 Manufacturer's specification		
Ratings	Relay Modules: Input Voltage: potential free output contacts: Optocoupler Modules Types:	5 to 230 V AC/DC 5 to 230 V AC/DC 1 mA to 12 A	
	Input Voltage: potential free static outputs:	5 to 230 V AC/DC 5 to 58 V DC 1 mA to 5 A 24 V to 400 V AC (OBOA 1000, OBROA 1000) 1 mA to 5 A	
Other Conditions	The outputs of OBOC 2000 and OBROC 2000 are not to be directly connected to circuits containing switched inductive loads. Cables exceeding 10 m in length to be shielded when connected to outputs of OBIC 0100 and OBRIC 0100 or overvoltage protection to be provided to limit the voltage to 1 kV common mode and 0,5 kV differential mode.		

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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.

Previous Version: 16/20068 (E1)

The Design Appraisal Document HTS/ETS 42359-22/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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