

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	ABB Xinhui Low Voltage Switchgear Co., Ltd. Jinguzhou Industrial Development Zone, Xinhui Dist., Jiangmen, 529100, China		
Type	Relays - Thermal & Magnetic With Oil Dash Pot		
Description	Thermal Overload Relays		
Trade Name	TF65-28, TF65-33, TF65-40, TF65-47, TF65-53, TF65-60, TF65-67, TF96-51, TF96-60, TF96-68, TF96-78, TF96-87, TF96-96		
Application	Marine applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2013.		
Specified Standard	EN 60947-1:2007/A1:2011/A2:2014 EN 60947-4-1:2010/A1:2012 EN 60947-5-1:2017		
Ratings	Type	Voltage [V]	Setting range [A]
	TF65-28	690	22.0...28.0
	TF65-33	690	25.0...33.0
	TF65-40	690	30.0...40.0

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TF65-47	690	36.0...47.0
TF65-53	690	44.0...53.0
TF65-60	690	50.0...60.0
TF65-67	690	57.0...67.0
TF96-51	690	40.0...51.0
TF96-60	690	48.0...60.0
TF96-68	690	57.0...68.0
TF96-78	690	65.0...78.0
TF96-87	690	75.0...87.0
TF96-96	690	84.0...96.0

Additional Tests Low temperature test (-25°C/16h)

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 40315-20/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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