

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 BULGARIA EOOD 1 Varna str., Petrich, 2850, Bulgaria		
Type	Relays - Thermal & Magnetic With Oil Dash Pot		
Description	Thermal Overload Relays		
Trade Name	TF140DU-90, TF140DU-110, TF140DU-135, TF140DU-142, TF140DU-90-V1000, TF140DU-110-V1000, TF140DU-135-V1000, TF140DU-142-V1000		
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]
	TF140DU-90	690	66...90
	TF140DU-110	690	80...110
	TF140DU-135	690	100...135

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TF140DU-142	690	110...142
TF140DU-90-V1000	690	66...90
TF140DU-110-V1000	690	80...110
TF140DU-135-V1000	690	100...135
TF140DU-142-V1000	690	110...142

Other Conditions

Ratings for application of thermal overload relay type TF140-...-V1000 in hazardous areas are to be obtained from the applicable Ex Certificate.

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 40312-20/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.