Certificate No: LR2443575TA
Issue Date: 17/04/2024
Expiry Date: 16/04/2029

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
Type	Circuit Breaker
Description	Miniature Circuit Breakers
Trade Name	EX60, EX100
Application	Marine, offshore and industrial applications for use in environmental categories ENV1 and ENV2 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2021.
Specified Standard	IEC 60947-1: 2007/AMD1:2010/AMD2:2014 IEC 60947-2: 2016/AMD1:2019

Ratings

EX60

Rated operational voltage Ue:	133/230 VAC; 230/400 VAC; 440 VAC
Rated current In:	0.5 A to 63 A (C and D characteristic) 6 A to 63 A (B characteristic)
Number of poles:	1; 1+N; 2; 3; 3+N; 4
Rated insulation voltage Ui:	440 V
Rated frequency:	50/60 Hz
Rated short-time making capacity Icm:	17 kA (230/400 V, 440 V) 40 kA (133/230 V)

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Thorsten Wolff

Electrical & Control - Senior Specialist to
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Rated ultimate short circuit breaking capacity Icu:	10 kA (230/400 V, 440 V) 20 kA (133/230 V)
Rated service short-circuit breaking capacity Ics:	7.5 kA (230/400 V, 440 V) 15 kA (133/230 V)

EX100

Rated operational voltage Ue:	133/230 VAC; 230/400 VAC; 440 VAG
Rated current In:	0.5 A to 63 A (C and D characteristic) 6 A to 63 A (B characteristic)
Number of poles:	1; 1+N; 2; 3; 3+N; 4
Rated insulation voltage Ui:	440 V
Rated frequency:	50/60 Hz
Rated short time making capacity Icm:	30 kA (230/400 V, 440 V) 52.5 kA (133/230 V)
Rated ultimate short ciccuit breaking capacity Icu:	15 kA (230/400 V, 440 V) 25 kA (133/230 V)
Rated service short-circuit breaking capacity Ics:	7.5 kA (230/400 V, 440 V; 50-63 A) 11.25 kA (230/400 V, 440 V; 0.5-40 A) 15 kA (133/230 V; 50-63 A) 18.75 kA (133/230 V; 0.5-40 A)

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 HPC2462002-24/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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