Certificate No: LR2002679TA
Issue Date: 21/01/2020
Expiry Date: 20/01/2025

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	**Aucom Electronics Limited**
Address	123 Wrights Road, Addington, Christchurch, New Zealand
Place of Production	Aucom Electronics Limited 123 Wrights Road, Addington, Christchurch, New Zealand
Type	Motor Starters
Description	CSX Soft Starters for Eclectic Motors CSXw-xxx-Vy-Cz Where:- W=Designated the features of starter; (Blank)=Without motor protection i=With motor protection(overload, phase loss, excess start time, etc.) xxx=Designates the nominal motor ratings; 007kW to 110 kW Vy=Designates the maximum voltage rating V4=440V a.c., V6=575V a.c. Cz=Designates the control supply voltage; C1=110 to 240 V a.c. and 380 to 440 V a.c. C2=24V a.c. or d.c.
Trade Name	AuCom
Application	Soft starter for three phase electric motors for Marine, offshore and industrial applications for use in environmental categories ENV2 in the “Bridge and Deck

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Ke Lin Zhang

Senior Specialist to Lloyd's Register
Classification Society (China) Co Ltd
A member of the Lloyd's Register group

19th Floor, 550 Yan An dong Road, Shanghai,
Huangpu District, China

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Zone" as defined in LR Type Approval System Test Specification No. 1-2002 where the Test Specification is satisfactory for the intended operation.

Specified Standard IEC 60947-4-2 Ed. 3.0(2011)

Ratings
Type: -007, -015, -018, -022, -030, -037, -045, -055, -075, -090, -110
Motor operational voltage(V): V4=200-440; V6=200-575
Motor power(kW): 007, 015, 018, 022, 030, 037, 045, 055, 075, 090, 110
Operational current(A): 18, 34, 42, 48, 60, 75, 85, 100, 140, 170, 200
Remark: control supply:
Freq.=45-66Hz,
Volt.:
C1=110-240V & 380-440V
C2=24V a.c./ d.c.

Additional Tests
-Low temperature test at -10°C
-Dry heat test at 60 °C

Other Conditions
-The certificate attests to the hardware's suitability for the environmental categories stated.
-Suitability of the a separate plan appraisal according to Lloyd's Register Rules and Regulations when placed don Lloyd's Register classed vessels.

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 Classification Society (China) Co Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2002679TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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