

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 Ltd
Address	123 Wrights Road PO Box 80208 Christchurch 8440 New Zealand
Place of Production	Aucom Electronics Limited 123 Wrights Road PO Box 80208 Christchurch 8440 New Zealand
Type	Control Units
Description	LV2012 series Soft Starter for three phase electric motors consist of: EMX4i-0024; EMX4i-0042; EMX4i-0052; EMX4i-0064; EMX4i-0069; EMX4i-0115; EMX4i-0105; EMX4i-0135; EMX4i-0184; EMX4i-0200; EMX4i-0229; EMX4i-0250; EMX4i-0352; EMX4i-0397; EMX4i-0410; EMX4i-0550; EMX4i-0580(Low temperature tested at -25°C is conducted); EMX4i-0835B; EMX4i-0940B; EMX4i-1070B; EMX4i-1230B; EMX4i-1250B; EMX4i-0735C; EMX4i-0830C; EMX4i-1025C; EMX4i-1170C; EMX4i-1220C (Low temperature tested at -10°C is conducted);
Trade Name	LV2012
Application	Marine applications for use in environmental categories ENV1, ENV2 in the "Equipment on bridge and deck zone" as defined in LR Type Approval System Test Specification No. 1 July 2015.
Specified Standard	IEC 60947-1:2007, incorporating amendment 1: 2010; IEC 60947-4-2:2011, incorporating corrigendum July 2012
Ratings	EMX4u-nnnnW-xyz u: type i: =3 phase control nnnn: nominal current rating in amperes W: the utilisation category B=internal bypass x: main supply voltage: 5=200~525 VAC 7=380~690 VAC y: control supply voltage: 1=110~120 VAC and 220~440 VAC 2=24 VAC/VDC z: fitting of human machine interface(HMI): 1=HMI fitted

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

Ke Lin Zhang

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

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Type Approval Certificate

Additional Tests	Low temperature tested at -10°C or -25°C for 16 hours; Dry heat tested at 60°C for 16 hours;
Other Conditions	The approval covers hardware only, software has been tested to the extent required to verify correct operation during type approval tests only.

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. 16/80090-02 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.