

Type Approval Extension Certificate

This is to certify that Certificate No. 09/10042(E3) for the undernoted products is amended and renumbered as shown.

This certificate is issued to:

PRODUCER	AuCom electronics Ltd.
PLACE OF PRODUCTION	PO Box 80208, Christchurch 8024, New Zealand
DESCRIPTION	EMX3 series of Soft Starter for three phase electric motors
TYPE	EMX3-nnnn w-Vx-Cy-z Where: - nnnn : Designates the nominal current rating in Amps w : Designates the utilisation category; B=internally bypassed x : Designates the mains supply voltage 4=200~440 V a.c. 7=380~690 V a.c. y : Designates the control supply voltage 1=110~210 V a.c. and 220~440 V a.c. 2=24 Va.c. or d.c. z : Designates the fitting of human machine interface(HMI) H=With keypad X=Without keypad

Certificate No.	19/80038(E4)
Issue Date	19 June 2019
Expiry Date	18 June 2024
Sheet	1 of 3



KL Zhang
Shanghai Technical Support Office

Lloyd's Register Classification Society (China)Co., Ltd
19th Floor, Ocean Towers, 550 Yan An Dong Road, Shanghai 200001

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APPLICATION

Marine applications for use in environmental categories ENV2 in the "Bridge and Deck Zone" as defined in LR Type Approval System Test Specification No. 1-2002 where the Test Specification is satisfactory for the intended operation.

(For G4B Series(EMX3-0270B~1000B), radiated emission is as IEC60947-4-2 Class B and conducted emission is as IEC60947-4-2 Class A)

ADDITIONAL TESTS:

Low temperature tested at -10°C;

Dry heat tested at 60°C;

STANDARDS

IEC 60947-4-2: Ed. 2.2(2007)

UL 508.17

RATINGS

Type	Motor		Remark
	Operational Voltage(V)	kW	
EMX3-0023B	200-440V a.c. 380~690Va.c.	7.5	23
EMX3-0043B		15	43
EMX3-0050B		18	50
EMX3-0053B		22	53
EMX3-0076B		30	76
EMX3-0097B		37	97
EMX3-0100B		45	100
EMX3-0105B		45	105
EMX3-0145B		55	145
EMX3-0170B		75	170
EMX3-0200B		90	200
EMX3-0220B		110	220
EMX3-0255B		132	255
EMX3-0350B		160	350
EMX3-0425B		185	425
EMX3-0500B		220	500
EMX3-0580B		300	580
EMX3-0700B		315	700
EMX3-0820B		355	820
EMX3-0920B		400	920
EMX3-1000B	500	1000	

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OTHER CONDITIONS

1. Where the EMX3 Series soft starters are intended to be used for the essential services installed for marine and offshore application classed by LR, they are to be provided with independent hard-wired backup system or equivalent, and the plan of which is to be submitted for LR approval.
2. Suitability of the software and system configuration is subject to a separate plan appraisal according to Lloyd's Register Rules and Regulations when placed on LR classed vessels.
3. The certificate attests to the hardware's suitability for the environmental categories stated.

"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 attached Design Appraisal Document No. STS/TA/19/80038(E4), Issue No. 0, dated 19 June 2019 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 09/10042(E3) to which this extension/amendment should be attached.

Certificate No. 19/80038(E4)
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Expiry Date 18 June 2024
Sheet 3 of 3

KL Zhang
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Lloyd's Register Classification Society
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Issue number 0

DESIGN APPRAISAL DOCUMENT

Date 19 June 2019	Quote this reference on all future communications STS/TA/KLZ/O-340856
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002

Issued to: AuCom electronics Ltd.

For: EMX3 series of Soft Starter for three phase electric motors

TYPE APPROVAL CERTIFICATE No. 19/80038(E4)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

1. Application for type approval(Form 2571), 15th, Jan. 2019;
2. Request for Marine Services(Form 2502), dated 06 March 2019;
3. Statement of no change or alternation, dated 1st, July 2019
4. Production Quality Assessment report, undated
5. LR type approval certificate No.: 09/10042(E3), dated on 19th, June 2014
6. ISO 9001:2008 Certificate No. NZ001625-1, issued by Bureau Veritas, expiry date: 13th, Sep., 2021.

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.

KL Zhang
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Type Approval Section
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This is a copy of an electronic document. In the event of any conflict or ambiguity between the copy and the electronic document, which is retained and published by Lloyd's Register, the original electronic and certified version shall always prevail.

Part 3
Soft Starter for electric motor

Description of Product				Cert. No.
Producer/Licence No.	Type	Details of Approval	Application	
<p>AuCom electronics Ltd. Production Place: PO Box 80208, Christchurch 8024, New Zealand</p>	<p>EMX3 series of Soft Starter for three phase electric motors nmmn: Designates the nominal current rating in Amps w: Designates the utilisation category; B=internally bypassed x: Designates the mains supply voltage, 4=200-440 V a.c., 7=380-690 V a.c. y: Designates the control supply voltage, 1=110-210 V a.c. and 220-440 V a.c., 2=24 V a.c. or d.c. z: Designates the fitting of human machine interface(HMI), H=With keypad, X=Without keypad</p>	<p>EMX3-nmmn w-Vx-Cy-z: EMX3-0023B EMX3-0043B EMX3-0050B EMX3-0053B EMX3-0076B EMX3-0097B EMX3-0100B EMX3-0105B EMX3-0145B EMX3-0170B EMX3-0200B EMX3-0220B EMX3-0255B EMX3-0350B EMX3-0425B EMX3-0500B EMX3-0580B EMX3-0700B EMX3-0820B EMX3-0920B EMX3-1000B</p>	<p>Application</p> <p>OTHER CONDITIONS</p> <p>1. Where the EMX3 Series soft starters are intended to be used for the essential services installed for marine and offshore application classed by LR, they are to be provided with independent hard-wired backup system or equivalent, and the plan of which is to be submitted for LR approval.</p> <p>2. Suitability of the software and system configuration is subject to a separate plan appraisal according to Llyod's register Rules and Regulations when placed on LR classed vessels.</p> <p>3. The certificate attests to the hardware's suitability for the environmental categories stated.</p>	<p>19/80038(E4) Expires: 18 June 2024</p>
<p>Remarks</p> <p>Marine applications for use in environmental categories ENNV2 in the "Bridge and Deck Zone" as defined in LR Type Approval System Test Specification No. 1-2002 where the Test Specification is satisfactory for the intended operation. (For G4B Series(EMX3-0270B-1000B), radiated emission is as IEC60947-4-2 Class B and conducted emission is as IEC60947-4-2 Class A)</p> <p>ADDITIONAL TESTS: Low temperature tested at -10°C; Dry heat tested at 60°C;</p> <p>STANDARDS IEC 60947-4-2: Ed. 2.2(2007) UL 508.17</p>				

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