



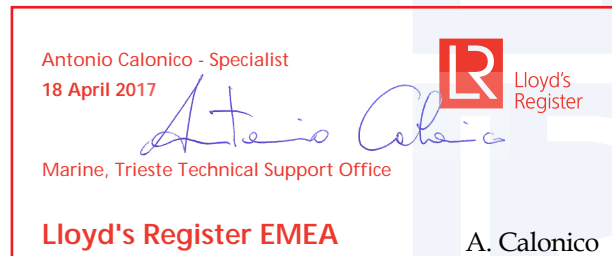
Lloyd's  
Register

## Type Approval Extension Certificate

This is to certify that Certificate No. 16/00038 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	ELECTRO ADDA S.p.A. Via Nazionale, 8 23883 Beverate di Brivio (LC) Italy			
<b>PLACE OF PRODUCTION</b>	ELECTRO ADDA S.p.A. Via Nazionale, 8 23883 Beverate di Brivio (LC) Italy			
<b>DESCRIPTION</b>	Three Phases Asynchronous Motors			
<b>TYPE</b>	horizontal shaft line:	C2A	C3A	C4
	vertical shaft line:	FC2A	FC3A	FC4
<b>APPLICATION</b>	Marine, Offshore and Industrial use.			
<b>SPECIFIED STANDARDS</b>	IEC 60034-1:2010 IEC 60034-2-1:2014 (IEC 60034-30:2008) IEC 60034-30-1:2014 Lloyd's Register Rules and Regulation for the Classification of Ships, 2015 - Part 6, Chapter 2, Section 9			
<b>RATINGS</b>	Rated Power [kW]:	0.75 ÷ 200		
	Rated Voltage [V]:	220 ÷ 690		
	Rated Frequency [Hz]:	50 / 60 or Frequency Converter Fed		
<b>Certificate No.</b>	16/00038(E1)			
<b>Issue Date</b>	18 April 2017			
<b>Expiry Date</b>	13 June 2021			
<b>Sheet</b>	1 of 2			



LR032.2013.12

Trieste Technical Support Office  
Lloyd's Register EMEA

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Southampton Boldrewood Innovation Campus, Burgess Road, Southampton SO16 7QF

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Efficiency Classes:	IE2 (C2A, FC2A) IE3 (C3A, FC3A) IE4 (C4, FC4)
Shaft Height [mm]:	80 ÷ 315
Poles Number:	2 - 4 - 6
Insulation Class:	F
Degree of Protection	IP 55 or IP 56
Duty Type	S1
Frame	A - Aluminium ; S - Steel
Shields	Aluminium or Cast Iron

**RANGE**

As per Manufacturer's Data Sheet

**OTHER CONDITIONS**

- Temperature Rise for Lloyd's Register application have to be within insulation class F limits, as per Lloyd's Register Rules and Regulation for the Classification of Ships, 2015 - Part 6, Chapter 2, Section 9.
- Temperature Rise for Power Frequency applications satisfies class B limits, except for C2A 225 MT 2 poles, within class F limit.
- Motors suitable for Inverted-Fed application, without any needs of power de-rating. Temperature Rise within class F limits.
- Motors rated 100 kW and above intended for Lloyd's Register application have to satisfy the additional requirements as specified in the LR Rules and Regulation for the Classification of Ships, Part 6, Chapter 2.

*"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.16/00038(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

All other details remain as the previous Certificate No. 16/00038 to which this extension should be attached.

<b>Certificate No.</b>	16/00038(E1)
<b>Issue Date</b>	18 April 2017
<b>Expiry Date</b>	13 June 2021
<b>Sheet</b>	2 of 2

Antonio Calonico - Specialist  
18 April 2017



Marine, Trieste Technical Support Office

**Lloyd's Register EMEA** A. Calonico

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