


Type Approval Certificate Extension

This is to certify that Certificate No. 94/20054 (E2) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	VEM motors GmbH	
PLACE OF PRODUCTION	Carl-Friedrich-Gauß-Strasse 1 38855 Wernigerode Germany	
DESCRIPTION	A.C. polyphase induction motors with squirrel cage.	
TYPES	K10R 112 to 315 K11R 132 to 315	
APPLICATION	Marine, offshore and industrial use.	
SPECIFIED STANDARDS	EN 60034-1:2004, EN 60034-2:1996, EN 60034-5:2001, EN 60034-7:1993, EN 60034-8:2007, EN 60034-9:2005, EN 60034-12:2002, EN 60034-14:2004	
RATINGS	Rated voltage: 220 V to 750 V (see note) Rated frequency: 50 Hz, 60 Hz Rated power: 0.5 kW to 310 kW Ambient air temperature: 45°C Duty type: S 1 Class of insulation: F Degree of protection: IP55, IP56 Number of poles: 2, 4, 6, 8, 10, 16, 24 and combinations	
	Frame sizes:	K10R K11R
		112 --
		132 132
		160 160
		180 180

Certificate No.	94/20054 (E3)
Issue Date	21 January 2010
Expiry Date	27 December 2014
Sheet	1 of 2


Jochen Körner
Hamburg Plan Approval Centre
Lloyd's Register EMEA

RATINGS CONTINUED	Frame sizes:	K10R	K11R
		200	200
		225	225
		250	250
		280	280
		315	315


Note: Other voltages within the range given are permissible.
The current is to be calculated by the reciprocal ratio of the voltages.

"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 attached Design Appraisal Document No. ETS 22366-09 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 94/20054 (E2) to which this extension should be attached.

Certificate No. 94/20054 (E3)
Issue Date 21 January 2010
Expiry Date 27 December 2014
Sheet 2 of 2


Jochen Körner
Hamburg Plan Approval Centre
Lloyd's Register EMEA



Marine Design Appraisal Document

Lloyd's Register EMEA
Hamburg Design Support Centre
Am Sandtorkai 41
20457 Hamburg, Germany
Telephone +49 (0)40 328107 - 0 Fax +49 (0)40 328107 - 480
Email: hamburg-design-support@lr.org

Date
21 January 2010

Quote this reference on all future communications
HPC 0820225/22366-09/JK/MG

**THE LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002
ISSUED TO: VEM MOTORS GMBH, WERNIGERODE
FOR: AC POLYPHASE INDUCTION MOTORS WITH SQUIRREL CAGE
TYPES: K10R 112 TO 315
K11R 132 TO 315
TYPE APPROVAL CERTIFICATE NO. 94/20054 (E3)**

The additional 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

Request	VEM email	20.10.2009
---------	-----------	------------

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.

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

Lloyd's Register EMEA
is a member of the Lloyd's Register Group

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group 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 Group 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.

Lloyd's Register EMEA
Hamburg Design Support Centre
Am Sandtorkai 41
20457 Hamburg, Germany
Telephone +49 (0)40 328107 - 0 Fax +49 (0)40 328107 - 480
Email: hamburg-design-support@lr.org

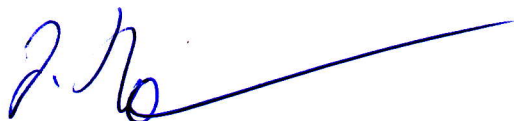
Date
21 January 2010

Quote this reference on all future communications
HPC 0820225/22366-09/JK/MG

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 EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.



Jochen Körner
Senior Surveyor
Electrotechnical Systems
Hamburg Design Support Centre
Lloyd's Register EMEA
T +49 (0)40 328107-443
E jochen.koerner@lr.org

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

Lloyd's Register EMEA
is a member of the Lloyd's Register Group

Part 1

Subject: Electrical Equipment (Not Environmentally Tested)

Product: Electric Motors (Part 1B)

Producer/Licence No.	Description of Product				Cert. No.			
	Type	Details of Approval		Application		Remarks		
VEM motors GmbH Carl-Friedrich-Gauß-Strasse 1 38855 Wernigerode Germany	K10R 112 to 315 K11R 132 to 315	Rated voltage:	220 V to 750 V (see note)		Marine, offshore and industrial use.	Expires: 27 December 2014 Note: other voltages within the range given are permissible. The current is to be calculated by the reciprocal ratio of the voltages. Complies with: EN 60034-1:2004, EN 60034-2:1996, EN 60034-5:2001, EN 60034-7:1993, EN 60034-8:2007, EN 60034-9:2005, EN 60034-12:2002, EN 60034-14:2004	94/20054 (E3)	
		Rated frequency:	50 Hz, 60 Hz					
		Rated power:	0.5 kW to 310 kW					
		Ambient air temperature:	45°C					
		Duty type:	S1					
		Class of insulation:	F					
		Degree of protection:	IP55, IP56					
		Number of poles:	2, 4, 6, 8, 10, 16, 24 and combinations					
		Frame sizes:	K10R	K11R				
			112	–				
			132	132				
	160	160						
	180	180						
	200	200						
	225	225						
	250	250						
	280	280						
	315	315						

[Handwritten signature]
 21-7-2012