

Braunschweig und Berlin

## DATA SHEET 02 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3043

Manufacturer **VEM Motors GmbH, Carl-Friedrich-Gauß-Str. 1, 38855 Wernigerode, Germany**

for the three-phase motor type K11R 280 M4 Exell ...

### Ratings

This certificate is valid for the following designs providing the motors of this type differ only negligibly from the sample tested as regards the electrical and thermal stresses:

Power:		70		kW
Voltage:	210 - 230		655 - 725	V
Current:	245		78	A
Power factor:		0.84		
Frequency:		50		Hz
Speed: (motor)		1485		min <sup>-1</sup>
Duty Type:		S1		
I <sub>A</sub> /I <sub>N</sub> ratio:		7.1		
Thermal class:		F		

In addition to the above-mentioned voltages, intermediate values are also permissible. The associated currents are to be converted in the inverse ratio to the voltages. The mains voltage may vary by up to  $\pm 5\%$  and the mains frequency by up to  $\pm 2\%$  from the rated values, in keeping with range A according to IEC 60034-1.

The maximum rated voltage according to EN 60079-7:2003, clause 4.4, table 1 is 690 V  $\pm 10\%$  (range B). This includes a rated voltage of 725 V  $\pm 5\%$  (range A).

### Temperature monitoring

For the selection of a current dependent time-lag protective device, the times  $t_E$  were determined as follows:


Temperature class:	T1	T2	T3	
Time $t_E$ :	30	30	11	s

Report PTB Ex 98-30016

Zertifizierungsstelle Explosionsschutz

By order

Braunschweig, September 04, 2008



Dr.-Ing. F. Lienesch  
Regierungsdirektor

