

# IBExU Institut für Sicherheitstechnik GmbH

An-Institut der TU Bergakademie Freiberg

## Continuation Sheet 42

### to the EC-TYPE EXAMINATION CERTIFICATE IBExU99ATEX1030 (Translation)

Three-phase Asynchronous Motor with Squirrel-Cage Rotor type IE2-K11R 280 S2

#### Rated values and technical data

On the basis of the test report IB-11-3-178 of 21 November 2011 the following specifications result:

The details are valid under the prerequisite that the Three-phase Motors of this type differ only insignificantly from the tested sample concerning the electrical and thermal design.

Nominal power:		47		kW
Nominal voltage:	210 ... 230	475 ... 525	655 ... 725	V
Nominal current:	152	67	48.5	A
Power factor:		0.93		
Nominal frequency:		50		Hz
Nominal speed:		2965 ... 2973		min <sup>-1</sup>
Operation mode:		S1		
Ratio $I_A/I_N$ :		6.7		
Thermal class:		F		
Cooling medium temperature:		40		°C

Besides the voltages mentioned above also intermediary values are permissible.  
The related currents have to be converted in the reciprocal relation of the voltages.  
In comparison with the rated values the mains voltage may fluctuate up to  $\pm 5\%$  and the mains frequency up to  $\pm 2\%$  appropriate to range A according to IEC 60034-1.

#### Temperature control

For the current-dependent delayed protective device the following  $t_E$ -times are valid:

Temperature class:	T1	T2	T3
Time $t_E$ :	30 s	30 s	15 s

This Continuation Sheet is only valid in combination with the EC-Type Examination Certificate IBExU99ATEX1030.

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Authorised for certifications  
-Explosion protection-

By order



(Dr. Wagner)



Seal  
(ID no. 0637)

Freiberg, 21 November 2011

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IBExU99ATEX1030  
Continuation Sheet 42