Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

DATA SHEET 07 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3050

Manufacturer: **Bauer Gear Motor GmbH, 73734 Esslingen, Germany**

for three-phase asynchronmotor type DXE09SA4-...

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 for cooling temperature 60 °C:			1.1			kW
Voltage:	110	230	400	500	690	V
Current:	10.1	4.8	2.75	2.2	1.61	A
Power factor:			0.78			
Frequency:			50			Hz
Speed: (motor)			1413			min^{-1}
Duty Type:			S1			
I_A/I_N ratio:			5.1			
Thermal class:			F (155)			

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 ± 5 % and the mains frequency by up to ± 2 % from the rated values, in keeping with range A according to IEC 60034-1.

A supplementary data plate on the motors indicates that connecting cables or lines with increased thermal endurance and a temperature limit of at least 80 °C must be used.

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:	13	13	13	s

Test report PTB Ex 13-33100

Zertifizierungssektor Explosionsschutz
On behalf of PTB

Braunschweig, August 08, 2013

Dr.-Ing. F. Lienesch
Regierungsdirektor

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT