

## DATA SHEET 07 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3048

**Manufacturer:** Bauer Gear Motor GmbH

Eberhard-Bauer-Straße 30-60, 73734 Esslingen, Germany

for three-phase motor type DXE06LA4-...

### Ratings and Data

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:	0.25					kW
Voltage:	110	230	400	500	690	V
Current:	3.2	1.53	0.88	0.7	0.51	A
Power factor:	0.69					
Frequency:	50					Hz
Speed: (motor)	1341					min <sup>-1</sup>
Duty Type:	S1					
I <sub>A</sub> /I <sub>N</sub> ratio:	3.3					
Thermal class:	155 (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 ± 5 % and the mains frequency by up to ± 2 % from the rated values, in keeping with ranges 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 $t_E$ :	23	23	23	s

Test report PTB Ex 13-33234

Zertifizierungssektor Explosionsschutz  
On behalf of PTB:

Braunschweig, January, 16, 2014

Dr.-Ing. F. Gienisch  
Regierungsdirektor



## DATA SHEET 08 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3048

**Manufacturer:** Bauer Gear Motor GmbH

Eberhard-Bauer-Straße 30-60, 73734 Esslingen, Germany

for three-phase motor type DXE06LA4-...

### Ratings and Data

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:	0.25					kW
Voltage:	110	220	440	500	690	V
Current:	3.2	1.60	0.80	0.7	0.51	A
Power factor:	0.69					
Frequency:	60					Hz
Speed: (motor)	1641					min <sup>-1</sup>
Duty Type:	S1					
I <sub>A</sub> /I <sub>N</sub> ratio:	3.6					
Thermal class:	155 (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 ranges 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 $t_E$ :	23	23	23	s

Test report PTB Ex 13-33234

Zertifizierungssektor Explosionsschutz  
On behalf of PTB:

Braunschweig, January, 16, 2014

Dr.-Ing. F. Fienesch  
Regierungsdirektor



## DATA SHEET 09 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3048

**Manufacturer:** Bauer Gear Motor GmbH

Eberhard-Bauer-Straße 30-60, 73734 Esslingen, Germany

for three-phase motor type DXE06LA4-...

### Ratings and Data

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:	0.12				kW
Voltage:	110	220	400	500	V
Current:	1.51	0.75	0.42	0.33	A
Power factor:	0.73				
Frequency:	50				Hz
Speed: (motor)	1355				min <sup>-1</sup>
Duty Type:	S1				
I <sub>A</sub> /I <sub>N</sub> ratio:	3.4				
Thermal class:	155 (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 ranges 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 $t_E$ :	80	80	80	s

Test report PTB Ex 13-33234

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, January, 16, 2014

  
Dr.-Ing. F. Lienesch  
Regierungsdirektor





## DATA SHEET 10 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3048

**Manufacturer:** Bauer Gear Motor GmbH

Eberhard-Bauer-Straße 30-60, 73734 Esslingen, Germany

for three-phase motor type DXE06LA4-...

### Ratings and Data

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:	0,12				kW
Current:	110	220	440	500	V
Strom:	1.51	0.75	0.37	0.33	A
Power factor:	0.73				
Frequency:	60				Hz
Speed: (motor)	1655				min <sup>-1</sup>
Duty Type:	S1				
I <sub>A</sub> /I <sub>N</sub> ratio:	3.8				
Thermal class:	155 (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 ± 5 % and the mains frequency by up to ± 2 % from the rated values, in keeping with ranges 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:

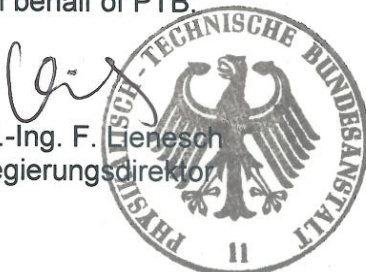
Temperature class:	T1	T2	T3	
Time $t_E$ :	80	80	80	s

Test report PTB Ex 13-33234

Zertifizierungssektor Explosionsschutz  
On behalf of PTB:

Braunschweig, January, 16, 2014

Dr.-Ing. F. Jenesch  
Regierungsdirektor



## DATA SHEET 11 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3048

**Manufacturer:** Bauer Gear Motor GmbH

Eberhard-Bauer-Straße 30-60, 73734 Esslingen, Germany

for three-phase motor type DXE06LA4-...

### Ratings and Data

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:	0.18					kW
Current:	110	220	400	500	690	V
Strom:	2.3	1.15	0.63	0.51	0.37	A
Power factor:	0.70					
Frequency:	50					Hz
Speed: (motor)	1360					min <sup>-1</sup>
Duty Type:	S1					
I <sub>A</sub> /I <sub>N</sub> ratio:	3.4					
Thermal class:	155 (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 ranges 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 $t_E$ :	39	39	39	s

Test report PTB Ex 13-33234

Zertifizierungssektor Explosionsschutz

On behalf of PTB

Braunschweig, January, 16, 2014

Dr.-Ing. F. Tienesch  
Regierungsdirektor



## DATA SHEET 12 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3048

**Manufacturer:** Bauer Gear Motor GmbH

Eberhard-Bauer-Straße 30-60, 73734 Esslingen, Germany

for three-phase motor type DXE06LA4-...

### Ratings and Data

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:	0.18					kW
Current:	110	220	440	500	690	V
Strom:	2.3	1.15	0.58	0.51	0.37	A
Power factor:	0.70					
Frequency:	60					Hz
Speed: (motor)	1660					min <sup>-1</sup>
Duty Type:	S1					
I <sub>A</sub> /I <sub>N</sub> ratio:	3.8					
Thermal class:	155 (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 ranges 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 $t_E$ :	39	39	39	s

Test report PTB Ex 13-33234

Zertifizierungssektor Explosionsschutz  
On behalf of PTB:

Braunschweig, January, 16, 2014

Dr.-Ing. E. Lienesch  
Regierungsdirektor





## DATA SHEET 12 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3049

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

for three-phase asynchronmotor type DXE08MA4-...

### 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:	0.55						kW
Voltage:	110	230	400	500	690		V
Current:	5.8	2.8	1.60	1.28	0.93		A
Power factor:			0.75				
Frequency:			50				Hz
Speed: (motor)			1395				min <sup>-1</sup>
Duty Type:			S1				
I <sub>M</sub> /I <sub>N</sub> ratio:			4.2				
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  $\pm 5\%$  and the mains frequency by up to  $\pm 2\%$  from the rated values, in keeping with range A according to IEC 60034-1.

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 $t_E$ :	16	16	16	s

Test report PTB Ex 13-33099

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013



Dr.-Ing. F. Lienesch  
Regierungsdirektor



## DATA SHEET 13 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3049

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

for three-phase asynchronmotor type DXE08LA4-...

### 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:	0.75					kW
Voltage:	110	230	400	500	690	V
Current:	7.3	3.5	2.00	1.60	1.16	A
Power factor:	0.76					
Frequency:	50					Hz
Speed: (motor)	1399					min <sup>-1</sup>
Duty Type:	S1					
I <sub>A</sub> /I <sub>N</sub> ratio:	4.6					
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  $\pm 5 \%$  and the mains frequency by up to  $\pm 2 \%$  from the rated values, in keeping with range A according to IEC 60034-1.

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 $t_E$ :	12	12	12	s

Test report PTB Ex 13-33099

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013

  
Dr.-Ing. F. Lienesch  
Regierungsdirektor





## DATA SHEET 14 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3049

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

for three-phase asynchronmotor type DXE08MA4-...

### 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:	0.55						kW
Voltage:	110	220	440	500	690		V
Current:	5.8	2.9	1.45	1.28	0.93		A
Power factor:			0.75				
Frequency:			60				Hz
Speed: (motor)			1695				min <sup>-1</sup>
Duty Type:			S1				
I <sub>A</sub> /I <sub>N</sub> ratio:			4.6				
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 $t_E$ :	16	16	16	s

Test report PTB Ex 13-33099

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013

  
Dr.-Ing. F. Lienesch  
Regierungsdirektor



## DATA SHEET 15 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3049

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

for three-phase asynchronmotor type DXE08LA4-...

### 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:	0.75					kW
Voltage:	110	220	440	500	690	V
Current:	7.3	3.65	1.82	1.60	1.16	A
Power factor:	0.76					
Frequency:	60					Hz
Speed: (motor)	1699					min <sup>-1</sup>
Duty Type:	S1					
I <sub>A</sub> /I <sub>N</sub> ratio:	5.0					
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 $t_E$ :	12	12	12	s

Test report PTB Ex 13-33099

Zertifizierungssektor **Explosionsschutz**  
On behalf of PTB

Braunschweig, August 08, 2013

  
Dr.-Ing. F. Lienesch  
Regierungsdirektor







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

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

for three-phase asynchronmotor type DXE09LA4-...

### 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:	1.5						kW
Voltage:	110	230	400	500	690		V
Current:	13.2	6.3	3.6	2.9	2.1		A
Power factor:	0.80						
Frequency:	50						Hz
Speed: (motor)	1410						min <sup>-1</sup>
Duty Type:	S1						
I <sub>A</sub> /I <sub>N</sub> ratio:	5.4						
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  $\pm 5\%$  and the mains frequency by up to  $\pm 2\%$  from the rated values, in keeping with range A according to IEC 60034-1.

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 $t_E$ :	9	9	9	s

Test report PTB Ex 13-33100

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013

  
Dr.-Ing. F. Lienesch  
Regierungsdirektor



## DATA SHEET 09 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	220	440	500	690	V
Current:	10.1	5.0	2.5	2.2	1.61	A
Power factor:			0.78			
Frequency:			60			Hz
Speed: (motor)			1713			min <sup>-1</sup>
Duty Type:			S1			
I <sub>A</sub> /I <sub>N</sub> ratio:			5.6			
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  $\pm 5\%$  and the mains frequency by up to  $\pm 2\%$  from the rated values, in keeping with range A according to IEC 60034-1.

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

## DATA SHEET 10 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3050

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

for three-phase asynchronmotor type DXE09LA4-...

### 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:	1.5						kW
Voltage:	110	220	440	500	690		V
Current:	13.2	6.6	3.3	2.9	2.1		A
Power factor:			0.80				
Frequency:			60				Hz
Speed: (motor)			1710				min <sup>-1</sup>
Duty Type:			S1				
I <sub>A</sub> /I <sub>N</sub> ratio:			5.9				
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  $\pm 5\%$  and the mains frequency by up to  $\pm 2\%$  from the rated values, in keeping with range A according to IEC 60034-1.

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 $t_E$ :	9	9	9	s

Test report PTB Ex 13-33100

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013

  
Dr.-Ing. F. Lienesch  
Regierungsdirektor





## DATA SHEET 11 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3051

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

for three-phase asynchronmotor type DXE11SA4-...

### 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:	2.2						kW
Voltage:	110	230	400	550	690		V
Current:	18.5	8.9	5.1	4.1	2.95		A
Power factor:	0.82						
Frequency:	50						Hz
Speed: (motor)	1435						min <sup>-1</sup>
Duty Type:	S1						
I <sub>A</sub> /I <sub>N</sub> ratio:	6.2						
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  $\pm 5\%$  and the mains frequency by up to  $\pm 2\%$  from the rated values, in keeping with range A according to IEC 60034-1.

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 $t_E$ :	9	9	9	s

Test report PTB Ex 13-33101

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013

  
Dr.-Ing. F. Lienesch  
Regierungsdirektor



## DATA SHEET 12 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3051

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

for three-phase asynchronmotor type DXE11MA4-...

### 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:	3.0						kW
Voltage:	110	230	400	500	690		V
Current:	23.5	11.2	6.5	5.2	3.75		A
Power factor:			0.85				
Frequency:			50				Hz
Speed: (motor)			1428				min <sup>-1</sup>
Duty Type:			S1				
I <sub>A</sub> /I <sub>N</sub> ratio:			6.3				
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  $\pm 5\%$  and the mains frequency by up to  $\pm 2\%$  from the rated values, in keeping with range A according to IEC 60034-1.

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 $t_E$ :	8	8	8	s

Test report PTB Ex 13-33101

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013

  
Dr.-Ing. F. Lienesch  
Regierungsdirektor



## DATA SHEET 13 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3051

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

for three-phase asynchronmotor type DXE11LA4-...

### 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:	4.0						kW
Voltage:	110	230	400	500	690		V
Current:	31.5	15.0	8.7	6.9	5.1		A
Power factor:			0.81				
Frequency:			50				Hz
Speed: (motor)			1445				min <sup>-1</sup>
Duty Type:			S1				
I <sub>A</sub> /I <sub>N</sub> ratio:			7.8				
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  $\pm 5\%$  and the mains frequency by up to  $\pm 2\%$  from the rated values, in keeping with range A according to IEC 60034-1.

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

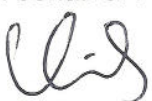
For the selection of a current dependent time-lag protective device, the times  $t_E$  were determined as follows:

Temperature class:	T1	T2	T3	
Time $t_E$ :	7	7	7	s

Test report PTB Ex 13-33101

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013

  
Dr.-Ing. F. Lienesch  
Regierungsdirektor





## DATA SHEET 14 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3051

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

for three-phase asynchronmotor type DXE11SA4-...

### 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:	2.2					kW
Voltage:	110	220	400	500	690	V
Current:	18.5	9.3	4.65	4.1	2.95	A
Power factor:	0.82					
Frequency:	60					Hz
Speed: (motor)	1735					min <sup>-1</sup>
Duty Type:	S1					
I <sub>A</sub> /I <sub>N</sub> ratio:	6.8					
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  $\pm 5\%$  and the mains frequency by up to  $\pm 2\%$  from the rated values, in keeping with range A according to IEC 60034-1.

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 $t_E$ :	9	9	9	s

Test report PTB Ex 13-33101

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013



Dr.-Ing. F. Lienesch  
Regierungsdirektor



## DATA SHEET 15 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3051

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

for three-phase asynchronmotor type DXE11MA4-...

### 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:	3.0					kW
Voltage:	110	220	440	500	690	V
Current:	23.5	11.7	5.9	5.2	3.75	A
Power factor:	0.85					
Frequency:	60					Hz
Speed: (motor)	1728					min <sup>-1</sup>
Duty Type:	S1					
I <sub>A</sub> /I <sub>N</sub> ratio:	6.9					
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  $\pm 5\%$  and the mains frequency by up to  $\pm 2\%$  from the rated values, in keeping with range A according to IEC 60034-1.

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 $t_E$ :	8	8	8	s

Test report PTB Ex 13-33101

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013

  
Dr.-Ing. F. Lienesch  
Regierungsdirektor



Braunschweig und Berlin

## DATA SHEET 16 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3051

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

for three-phase asynchronmotor type DXE11LA4-...

### 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:	4.0						kW
Voltage:	110	220	440	500	690		V
Current:	31.5	15.8	7.9	6.9	5.1		A
Power factor:			0.81				
Frequency:			60				Hz
Speed: (motor)			1745				min <sup>-1</sup>
Duty Type:			S1				
I <sub>w</sub> /I <sub>N</sub> ratio:			8.4				
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  $\pm 5\%$  and the mains frequency by up to  $\pm 2\%$  from the rated values, in keeping with range A according to IEC 60034-1.

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 $t_E$ :	7	7	7	s

Test report PTB Ex 13-33101

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013



Dr.-Ing. F. Lienesch  
Regierungsdirektor





## DATA SHEET 04 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3052

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

for three-phase asynchronmotor type DXE13LA4-...

### 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:	5.5						kW
Voltage:	110	230	400	550	690		V
Current:	43.0	20.6	11.9	9.5	6.9		A
Power factor:			0.80				
Frequency:			50				Hz
Speed: (motor)			1460				min <sup>-1</sup>
Duty Type:			S1				
I <sub>A</sub> /I <sub>N</sub> ratio:			8.1				
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  $\pm 5\%$  and the mains frequency by up to  $\pm 2\%$  from the rated values, in keeping with range A according to IEC 60034-1.

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 $t_E$ :	9	9	8	s

Test report PTB Ex 13-33102

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013



Dr.-Ing. F. Lienesch  
Regierungsdirektor



## DATA SHEET 05 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 08 ATEX 3052

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

for three-phase asynchronmotor type DXE13LA4-...

### 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:	5.5						kW
Voltage:	110	220	440	550	690		V
Current:	43.0	21.5	10.7	9.5	6.9		A
Power factor:			0.80				
Frequency:			60				Hz
Speed: (motor)			1760				min <sup>-1</sup>
Duty Type:			S1				
I <sub>A</sub> /I <sub>N</sub> ratio:			8.6				
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 $t_E$ :	9	9	8	s

Test report PTB Ex 13-33102

Zertifizierungssektor Explosionsschutz  
On behalf of PTB

Braunschweig, August 08, 2013

  
Dr.-Ing. F. Lienesch  
Regierungsdirektor

