

Nachfolgetyp für Bauer-Artikel-Nr.: 189G0400

Bauer Article No.: 189P6886

Helical-geared motor with Single-disc spring setting brake

Type	: BG70-11/DPE13XA4-TX-S/ES070A7/SP		
Motor power	(kW) : 7,5	Mounting	: B3
Output shaft speed	(rpm) : 64	Terminal box position	: I / A
		Dimensional drawing	: BG70-BG70Z
Corrosion protection	: Standard	Catalogue	: B 2010
Painting	: RAL 7031	net weight per unit	: ca. 176 kg
ambient temperature	°C : -20 - +40		

Suitable for operation on static converter

in the frequency range	: 10	-50	-87	-100	Hz
Voltage	: 90	-380	-660	-660	V Y
Output	: 1,15	-5,6	-9,8	-11,3	kW
synchron speed	: 13,0	-65	-113	-130	rpm
Constant torque	: 840				Nm
Load current approximately	: 14,3				A
Service factor	: 2,7				

Gear design:

Type	: BG70 2 -staged Helical gear
Design code 11	: foot with clearance hole on side bottom
	: solid output shaft on gear side front (d: 60 mm)
Total gear reduction i	: 22,92
Oil-type/-volume (l)	: CLP 220 / 6,5

Design of the motor:

Type	: Three-phase squirrel cage motor DPE13XA4-TX-S		
Voltage	(V) : 380	Rated speed	(rpm) : 1460
Connection	: Y	IP prot. type per EN 60529	: IP 65
Frequency	(Hz) : 50	IC cool. type EN 60034-6	: IC 411
Rated current	(A) : 16,0	Design acc. to DIN VDE 0530-1/EN 60034-1	
Power factor (cos phi)	: 0,79	Terminal box size	: TB322
Temperature class	: F	efficiency class acc. to EN 60034-2-1 : IE3 - 90,5 %	
Add./Special design:	Terminal box design with terminal block with Resistive Temperature Detector KTY84-130SH		

Design of the brake:

	Holding brake below the fan cowl		
Type	: Single-disc spring setting brake ES 070 A 7		
Braking torque	: 50	Nm	
IP prot. type per EN 60 529	: IP 65	supplemental dim. drawing	: N-BR
Coil voltage	: 180	V	Coil current : 0.46 A
cable version, connecting ends of the magnet coil led to rectifier in motor terminal box.			

With standard rectifier installed in motor terminal box

Type	: SG 3.575 B		
Connection voltage AC 50/60 Hz	: 380..420	V	Output DC : 180 V
Connection current	: 0.33	A	

Prepared for later attachment of a pulse generator/tachometer generator

Type	: 8.5820M mit Schutzhaube
Tacho-Anbau nach ZN.D13-00-ES/DG-A3-1.	

Please note:

Motor

Further data according to Annex I Sector 2 of the Energy Efficiency Regulation (EU) 2019/1781 can be found under the link:
<https://www.bauergears.com/en/energy-efficiency/product-information-eu>

At higher input speeds, increased operating noise and temperature rise of the gear motor

can be expected.

Furthermore, the lifetime of the shaft seals will reduce, which needs to be observed, when setting service intervals.

Please check whether the allocation of voltage and frequency for the motor and converter match.

Caution!! The maximum converter output voltage is greater than 400 V.

In lines of over 10 meters between converter and motor and converter with rapid-switching power semiconductors, such as IGBT, reflections can cause dangerously high voltage spikes which lead to damage to the winding insulation. Converters with output filters prevent this. An additional achievement is achieved by the star connection of the winding.

Brake

When operating with various frequencies (frequency jumping, converter operation) the brake must be supplied from a separate network (possibly a control network)(danger of destruction by voltage spikes).