

Nachfolgetyp für Artikel Nr.:188K0428

**Bauer Article No.: 189F8068**

**Helical-geared motor with Single-disc spring setting brake**

Type	: BG20-47/DXS08XB4-TX-ST-ZW-S-BR/SP		
Ex-Marking	: II 3 D Ex tc IIIC T160°C Dc		
Motor power	(kW) : 0,75	Mounting	: B5
Output shaft speed	(rpm) : 92	Terminal box position	: I / B
		Dimensional drawing	: BG20-BG20Z
		Catalogue	: DG 07
Corrosion protection	: Standard	net weight per unit	: ca. 29 kg
Painting	: RAL 7031		
ambient temperature	°C : -20 - +40		
<b>Add./Special design:</b>	spec Design motor nach ZN.D08-00-ES-A3-Ex3D.		

Suitable for operation on static converter in the frequency range	: 8,7	-	50	Hz
Voltage	: 59	-	230	V Y
Output	: 0,098	-	0,53	kW
synchron speed	: 16,5	-	96	rpm
Constant torque	: 56			Nm
Load current approximately	: 2,9			A
Service factor	: 3,2			

**Gear design:**

Type	: BG20	2 -staged Helical gear
Design	: II 2 G Ex h IIC T3 Gb / II 2 D Ex h IIIC T160°C Db acc. to EN80079-36, -37	
Design code 47	: with large flange on side front (d: 200 mm)	
	: solid output shaft on gear side front for flangeversion	
Total gear reduction i	: 15,58	
Oil-type/-volume (l)	: CLP 220 / 0,8	
<b>Add./Special design:</b>	Special output shaft nach ZN.BG20-31-A3-K075. (d x l): 25 mm x 125 mm), ohne Paßfedernut, Wellenbund 12 mm vorgezogen, Material-Nr. 30419061	

**Design of the motor:**

**Explosion proof Three-phase squirrel cage motor in special design for use in category 3D, Zone 22**

Type	: DXS08XB4-TX-ST-ZW-S		
Ex-Marking	: II 3 D Ex tc IIIC T160°C Dc		
Voltage	(V) : 230	Rated speed	(rpm) : 1425
Connection	: Y	IP prot. type per EN 60529	: IP 65
Frequency	(Hz) : 50	IC cool. type EN 60034-6	: IC 411
Rated current	(A) : 3,25		
Relative starting current IA/IN	: 5.3		
Power factor (cos phi)	: 0,71	efficiency class acc. to EN 60034-2-1	: IE3 - 82,5 %
Temperature class	: F	Design acc. to EN 60034 and EN 60079	
Terminal box size	: TBS112		

**Add./Special design:**

Harting plug connection HAN 10 ES  
 per dimensional drawing TBS11.-06-A3 and connection diagram HS11210000/01:  
 Attached housing 09 300 100 301 - 2 Bügel  
 Pin insert 09 330 102 616  
 sleeve housing -  
 Use of bushing -  
 Enclosure 09 300 105 407  
 With built in thermistors for release  
 per supplemental connection diagram Z010.1040-14.  
 Fan made of Aluminium .  
 With external grounding clamp  
 shaft end extension nach ZN.D08-31L-EG-A4-W-K001. d x l: 14g7 x 35 mm, Wellenbund bündig mit  
 Lüfterhaube, ohne Paßfedernut, Material Nr.: 30539095

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An Altra Industrial Motion Company

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**Design of the brake:** Holding brake below the fan cowl  
 Type : Single-disc spring setting brake FDW 10  
 Braking torque : 10,0 Nm  
 IP prot. type per EN 60 529 : IP 65 supplemental dim. drawing : N-BR  
 Coil voltage : 103 V Coil current : 0.31 A  
 ATEX marking : CE Ex II 3D Ex tc IIIC T125°C Dc  
 cable version, connecting ends of the magnet coil led to rectifier in motor terminal box.  
**Add./Special design:** Sonder-Bremse nach ZN.30527350.  
 With non-lockable hand release.  
 Handl ufthebel in Lage II  
 Mit eingebautem Thermistor f ur Abschaltung  
 nach Zusatz-Anschlu bild Z015.1000-02

**The brake was selected on the basis of the application-specific data. The drive is only approved for the application area up to the limits of the application-specific data.**

Load torque at rotor shaft : 5 Nm  
 External Moment of inertia at rotor shaft : 0.02 kgm<sup>2</sup>  
 Friction work/Braking : 500 J  
 Number of switching/hour : 5 c/h

With standard rectifier installed in motor terminal box

Type : SG 3.575 B  
 Connection voltage AC 50/60 Hz : 220..230 V Output DC : 103 V  
 Connection current : 0.22 A

### Please note:

#### Gearbox

Our safety instructions (operating instruction No. 170..) for the use of explosion protected geared motors must be followed. Should you not have a copy of these instructions, please request a copy (also available in electronic form) from us. In case of order, you will receive a copy of this important document for the planning phase together with the delivery.

#### Motor

The enclosures specified in the Law on technical materials (Equipment safety law) are not included in the delivered package and need to be provided in the building, unless the danger of accident is already ruled out by appropriate installation.

Voltage and frequency range = Area A acc. to EN 60034-1

Product information according to EU Regulation (EU) 2019/1781 Annex I Sector 2:  
<https://www.bauergears.com/euprodinfo>

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

#### 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).

The safety instructions in the operating instructions of the brake must be followed.