

Motor Type:

maxon A-max Ø32 mm . . .

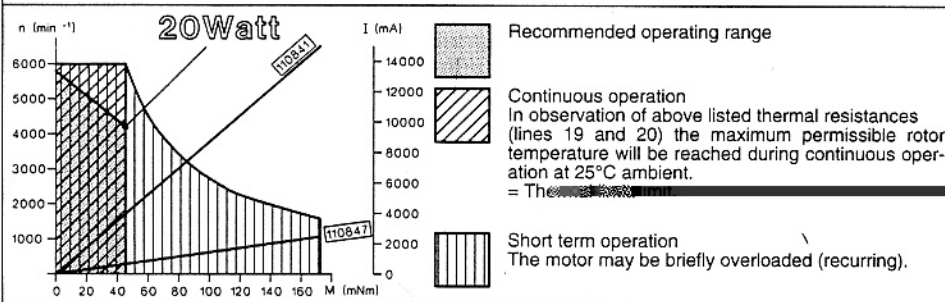
Order Number
Motor Data

... Graphite brushes, 20 W, ball bearings, 1 shaft	A	110841	110842	110843	110844	110845	110846	110847											
... Graphite brushes, 20 W, ball bearings, 2 shafts	B	110848	110849	110850	110851	110852	110853	110854											
1 Assigned power rating	W			20															
2 Nominal voltage	Volt			12.00															
3 No load speed	rpm			4640															
4 Stall torque	mNm			131															
5 Speed/torque gradient	rpm/mNm			36.0															
6 No load current	mA			82.8															
7 Starting current	mA			5430															
8 Terminal resistance	Ohm			2.21															
9 Max. permissible speed	rpm			6000															
10 Max. continuous current	mA			1840															
11 Max. continuous torque	mNm			44.5															
12 Max. power output at nominal voltage	mW			15500															
13 Max. efficiency	%			75.9															
14 Torque constant	mNm/A			24.2															
15 Speed constant	rpm/V			394															
16 Mechanical time constant	ms			15.0															
17 Rotor inertia	gcm ²			39.7															
18 Terminal inductance	mH			0.26															
19 Thermal resistance housing-ambient	K/W			7.50															
20 Thermal resistance rotor-housing	K/W			2.10															

Operating Range

Comments

(Details on page 36)



maxon Modular System

Planetary Gearhead

Ø32 mm, 0.75-4.5 Nm
Details page 147

Spur Gearhead

Ø38 mm, 0.1-0.6 Nm
Details page 155

Digital Encoder

HP HEDL 5540

500 CPT, 3 chan.

Details page 175

Stock program

Standard program

Special program (on request)

- Axial play 0.12 - 0.22 mm
- Max. ball bearing loads
 - axial (dynamic) 7.6 N
 - radial (5 mm from flange) 32.0 N
 - Press-fit force (static) 110 N
 - (same as above, shaft supported) 2000 N
- Max. sleeve bearing loads
 - axial (dynamic) 5 N
 - radial (5 mm from flange) 10.5 N
 - Press-fit force (static) 110 N
 - (same as above, shaft supported) 2000 N
- Radial play ball bearings 0.025 mm
- Radial play sleeve bearings 0.012 mm
- Ambient temperature range -20/+85°C
- Max. rotor temperature +125°C
- Number of commutator segments 13
- Weight of motor 242 g
- Values listed in the table are nominal. For applicable tolerances (see page 33) and additional details please request our computer printout.

- Options: sleeve bearings in place of ball bearings and pigtailed instead of terminals.