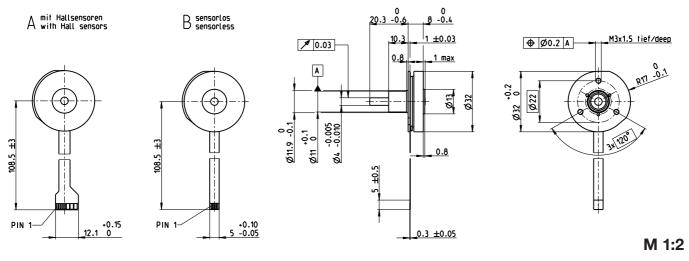
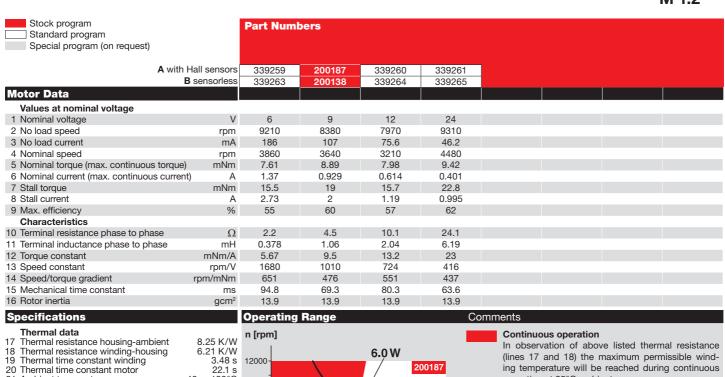
## EC 32 flat Ø32 mm, brushless, 6 Watt





## 20 Thermal time constant motor 21 Ambient temperature 22.1 s -40...+100°C Max. winding temperature +125°C Mechanical data (preloaded ball bearings) 12000 rpm

Max. speed 24 Axial play at axial load < 5.0 N 0 mm typ. 0.6 mm 25 Radial play preloaded 4.8 N 26 Max. axial load (dynamic) Max. force for press fits (static) (static, shaft supported) 45 N 1000 N 28 Max. radial load, 15 mm from flange 10.5 N

Other specifications 29 Number of pole pairs 30 Number of phases 31 Weight of motor 32 g

Values listed in the table are nominal.

Connection Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8	with Hall sensors V <sub>Hall</sub> 3.524 VDC Hall sensor 3 Hall sensor 1 Hall sensor 2 GND Motor winding 3 Motor winding 2 Motor winding 1	sensorless Motor winding 1 Motor winding 2 Motor winding 3
Adapter	Part number	Part number
see p. 437 Connector	220300 Part number	220310 Part number
Tyco	1-84953-1	84953-4
Molex	52207-1133	52207-0433
Molex	52089-1119	52089-0419
Pin for design with Hall sensors:		
FPC, 11-pol, Pitch 1.0 mm, top contact style		
Wiring diagram for Hall sensors see p. 37		

## operation at 25°C ambient. 8000-= Thermal limit. Short term operation 4000 The motor may be briefly overloaded (recurring). 10 15 M [mNm] Assigned power rating 0.5 1.0 1.5 1 [A]

