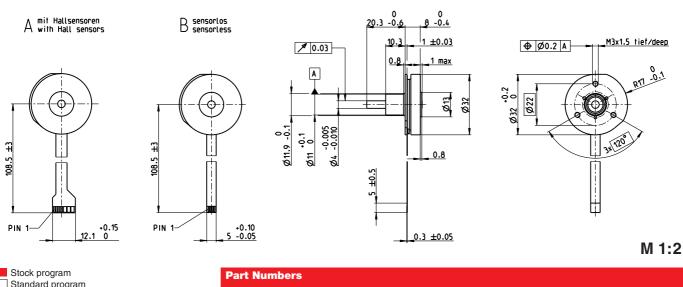
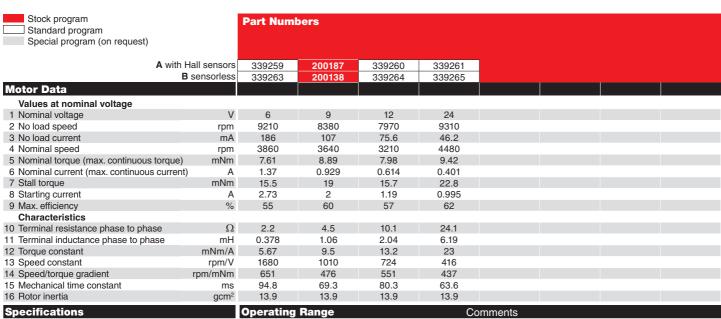
EC 32 flat Ø32 mm, brushless, 6 Watt





Thermal data 17 Thermal resistance housing-ambient 18 Thermal resistance winding-housing 19 Thermal time constant winding 20 Thermal time constant motor 21 Ambient temperature 22 Max. winding temperature 3.48 s 22.1 s 40...+100°C 40...+125°C

Mechanical data (preloaded ball bearings)

23 Max. permissible speed		12000 rpm
24 Axial play at axial load	< 5.0 N	0 mm
	> 5.0 N	typ. 0.6 mm
25 Radial play		preloaded
6 Max. axial load (dynamic)		· 4.8 N
7 Max. force for press fits (static)		45 N
(static, shaft supported	(h	1000 N
28 Max. radial load, 7.5 m	m from flange	5.5 N
	_	

Other specifications Number of pole pairs

30 Number of phases 31 Weight of motor

or weight of motor

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 _{Hall} 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 I neutral point
Adapter	Part number	Part number
see p. 362	220300	220310
Connector	Part number	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. 35		
Willing diagram for Hall Sensors See p. 33		

n [rpm] Continuous operation In observation of above listed thermal resistance 6.0 W (lines 17 and 18) the maximum permissible wind-12000 ing temperature will be reached during continuous 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]

