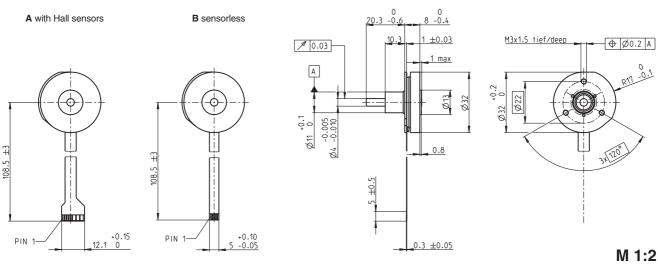
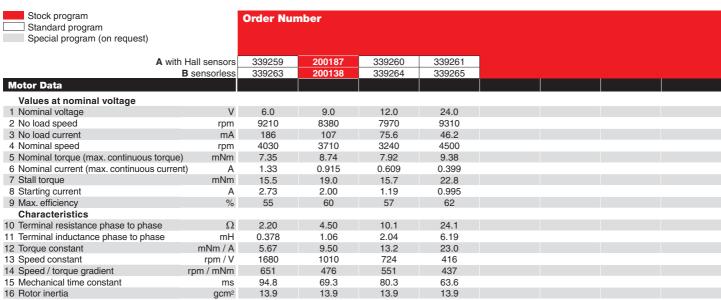
EC 32 flat Ø32 mm, brushless, 6 Watt





Specifications				
	Thermal data			
17	Thermal resistance housing-ambient	6.28 K / W		
18	Thermal resistance winding-housing	5.83 K/W		
19	Thermal time constant winding	3.35 s		
20	Thermal time constant motor	16.8 s		
21	Ambient temperature	-40 +100°C		
22	Max. permissible winding temperature	+125°C		

Mechanical data (preloaded ball bearings)

23 Max. permissible spee	d	12000 rpm
24 Axial play at axial load	< 5.0 N	0 mm
	> 5.0 N	typ. 0.6 mm
25 Radial play		preloaded
26 Max. axial load (dynam	nic)	4.8 N
7 Max. force for press fits (static)		50 N
(static, shaft supported	l) .	1000 N
28 Max. radial loading, 7.5	mm from flange	5.5 N

Other specifications

29 Number of pole pairs 4
30 Number of phases 3
31 Weight of motor 32 g

Values listed in the table are nominal

values listed in the table are norminal.					
Connection Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7	with Hall sensors 3.5 24 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 Aneutral point			
Adapter see p. 310 Connector TYCO MOLEX MOLEX	Order number 220300 Article number 1-84953-1 52207-1185 52089-1119 with Hall sensors:	Order number 220310 Article number 84953-4 52207-0485 52089-0419			
FPC, 11-pol, Pitch 1.0 mm, top contact style Wiring diagram for Hall sensors see p. 29					

Operating Comments n [rpm] Continuous operation In observation of above listed thermal resistance 6.0 W (lines 17 and 18) the maximum permissible winding temperature will be reached during continuous 12000 200187 operation at 25°C ambient. 8000 = Thermal limit. Short term operation 4000 The motor may be briefly overloaded (recurring). 15 M [mNm] Assigned power rating 0.5 1.0 1.5 Ι [A]

