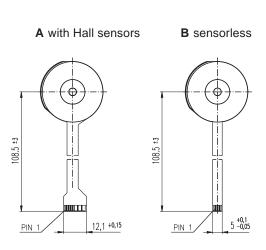
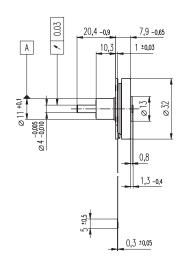
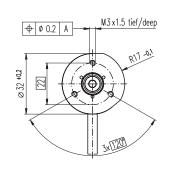
## EC 32 Flat motor Ø32 mm, brushless, 3 Watt







	0			
Stock program			Order Number	
	Standard program			
	Special program (on request!)			
	with Hall sensors		200187	
	sensorless			200138
Mo	otor Data			
1	Assigned power rating	W	3	3
2	Nominal voltage	Volt	9.0	9.0
3	No load speed	rpm	8600	8600
4	Stall torque	mNm	20	20
5	Speed/torque gradient	rpm/mNm	478.6	478.6
6	No load current	mA	110	110
7	Terminal resistance phase to phase	Ohm	4.50	4.50
8	Max. permissible speed	rpm	12000	12000
9	Max. continuous current at 5'000 rpm	Α	0.94	0.94
10	Max. continuous torque at 5'000 rpm	mNm	3.7	3.7
11	Max. efficiency	%	60.2	60.2
12	Torque constant	mNm/A	9.5	9.5
13	Speed constant	rpm/V	1007	1007
14	Mechanical time constant	ms	70.0	70.0
15	Rotor inertia	gcm <sup>2</sup>	13.9	13.9
16	Terminal inductance phase to phase	mH	1.070	1.070
17	Thermal resistance housing-ambient	K/W	6.5	6.5
18	Thermal resistance winding-housing	K/W	10.8	10.8
19	Thermal time constant winding	s		

Specifications						
Axial preload	> 5 N					
<ul> <li>Max. ball bearing loads axial (dynamic)</li> </ul>	2.8 N					
radial (7.5 mm from flange) Press-fit force (static)	5.5 N 50 N					
<ul> <li>Ambient temperature range</li> </ul>	-40/+85°C					
<ul> <li>Max. rotor temperature</li> </ul>	+85°C					
<ul> <li>Weight of motor</li> </ul>	32 g					
<ul> <li>Version with and without Hall sensor</li> </ul>	Version with and without Hall sensors					
<ul> <li>8-pole permanent magnet</li> </ul>						
3-phased coil stator with 2 pole shoes each						
<ul> <li>Values listed in the table are nominal.</li> </ul>						

20 Thermal time constant stator

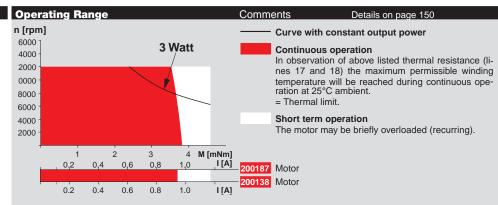
Pin 7 motor winding 2 Pin 8 motor winding 1

 Connector
 Article number
 Article number

 AMP
 1-487952-1
 487952-4

 MOLEX
 52271-1190
 52207-0490

 MOLEX
 52089-1110
 52089-0410



April 2001 edition / subject to change maxon EC motor 161