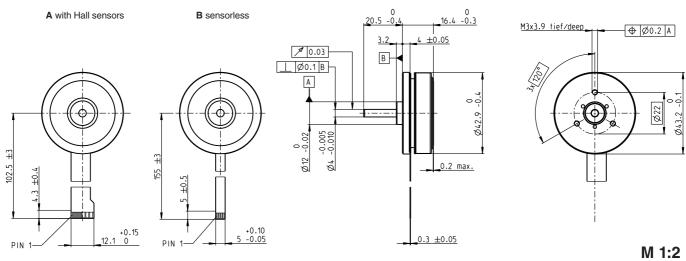
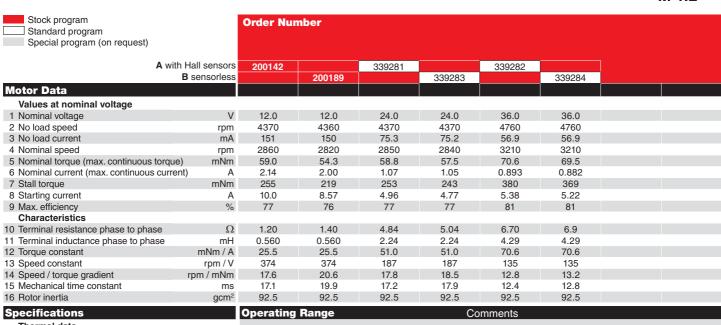
Overview on page 16 - 21

EC 45 flat Ø45 mm, brushless, 30 Watt



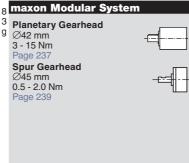


Thermal data Continuous operation n [rpm] 4.23 K/W Thermal resistance housing-ambient In observation of above listed thermal resistance 4.57 K/W 18 Thermal resistance winding-housing 30 W (lines 17 and 18) the maximum permissible winding temperature will be reached during continuous Thermal time constant winding 13.2 s 10000 200142 20 Thermal time constant motor 186 s operation at 25°C ambient. 8000 Ambient temperature Max. permissible winding temperature ... +100°C Thermal limit. +125°C 6000 Mechanical data (preloaded ball bearings) Short term operation 4000 23 Max. permissible speed 24 Axial play at axial load < 5.0 N 10000 rpm The motor may be briefly overloaded (recurring). 0 mm 2000 > 5.0 N typ. 0.14 mm 25 Radial play 26 Max. axial load (dynamic) preloaded Assigned power rating 40 4.8 N M [mNm] Max. force for press fits (static) 50 N 1.0 2.0 3.0 Ι[A] (static, shaft supported) 1000 N Max. radial loading, 7.5 mm from flange 21 N Other specifications

Number of phases Weight of motor		75 <u>.</u>
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 4.5 18 VDC Hall sensor 3* Hall sensor 1* Hall sensor 2* GND Motor winding 3 Motor winding 1	sensorless Motor winding 1 Motor winding 2 Motor winding 3 人 neutral point
*I I II	(7 4010)	

Number of pole pairs

*Internal pull-up (7 ... 13 $k\Omega$) on pin 1 Wiring diagram for Hall sensors see p. 29 Order number Örder number Adapter see p. 310 Connector 220300 220310 Article number Article number 1-84953-1 52207-1185 52207-0485 MOLEX MOLEX 52089-1119 52089-0419 Pin for design with Hall sensors: FPC, 11-pol, Pitch 1.0 mm, top contact style



DECS 50/5 DEC 24/3 290 DEC Module 24/2 **DEC 50/5** 291 DEC Module 50/5 291 **DECV 50/5** FPOS2 Module 36/2 304 **Option**With Cable and Connector EPOS2 24/2 304 EPOS2 24/5 (Motor length +1.3 mm, FPOS2 P 24/5 Ambient temperature -20 ... +100°C) Notes

Recommended Electronics:

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