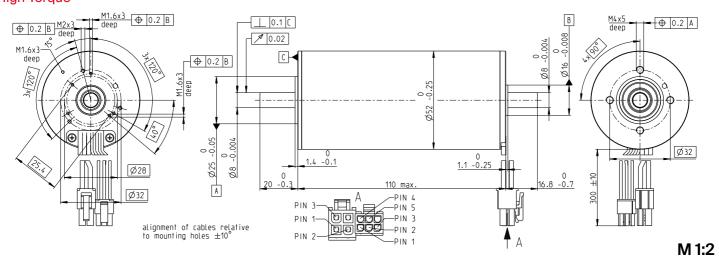
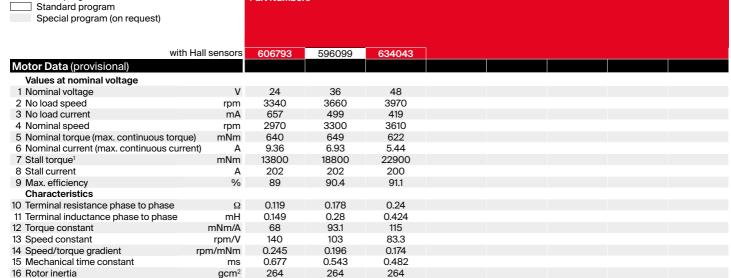
## EC-i 52 Ø52 mm, brushless, 200 Watt

## **High Torque**

Stock program





**Part Numbers** 

8

1150 g

	9						
Specifications		Operating Ra	nge			Comn	nents
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	4.02 K/W 0.53 K/W 12.8 s 2310 s -40+100°C +155°C	5000		200 W			Continuous operation In observation of above listed thermal resistance (lines 17 and 18) the maximum permissible winding temperature will be reached during continuous operation at 25°C ambient.  = Thermal limit.
Mechanical data (preloaded ball bea 23 Max. permissible speed 24 Axial play at axial load < 15 N > 15 N	arings) 5000 rpm 0 mm 0.14 mm	3000 2000					Short term operation The motor may be briefly overloaded (recurring).
<ul> <li>25 Radial play</li> <li>26 Max. axial load (dynamic)</li> <li>27 Max. force for press fits (static) (static, shaft supported)</li> <li>28 Max. radial load, 5 mm from flange</li> </ul>	preloaded 12 N 150N 6000 N 110 N	1000 0 0.52	500 6.2	1000 12	M [mNm] I [A]		Assigned power rating

Number of pole pairs Number of phases Weight of motor Values listed in the table are nominal.								
Connection	motor (Cable AWG	i 16)						
red	Motor winding 1	Pín 1						
black	Motor winding 2	Pin 2						
white	Motor winding 3	Pin 3						
	N.C. Pin 4							
Connector	Article number							
Molex	39-01-2040							
Connection	sensor (Cable AWG 26)							
yellow	Hall sensor 1	Pin 1						
brown	Hall sensor 2 Pin 2							
grey	Hall sensor 3	Pin 3						
blue	GND Pin 4							
green	V <sub>Hall</sub> 4.524 VDC	Pin 5						
	N.C. Pin 6							

Other specifications

Connector

Molex 430-25-0600 Wiring diagram for Hall sensors see p. 49 <sup>1</sup>Calculation does not include saturation effect (p. 61/168)

Article number

Planetary Gearhead

∅52 mm
4 - 30 Nm
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Recommended Electronics:
Notes Page 36
ESCON Mod. 50/8 (HE) 488
ESCON 70/10 489
EPOS4 Mod./Comp. 50/8 497
EPOS4 Mod./Comp. 50/15 497
EPOS4 70/15 501

 Encoder 16 EASY/XT
 128 - 1024 CPT, 3 channels Page 450/452
 Encoder 16 EASY Absolute/XT
 4096 steps Page 454/456
 Encoder 16 RIO
 1024 - 32768 CPT, 3 channels Page 467
 Encoder AEDL 5810
 1024 - 5000 CPT, 3 channels

Details on catalog page 36

Page 470 Encoder HEDL 5540 500 CPT, 3 channels Page 477

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