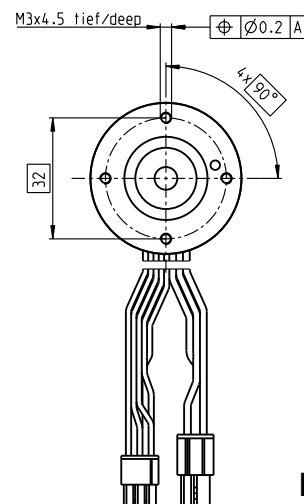
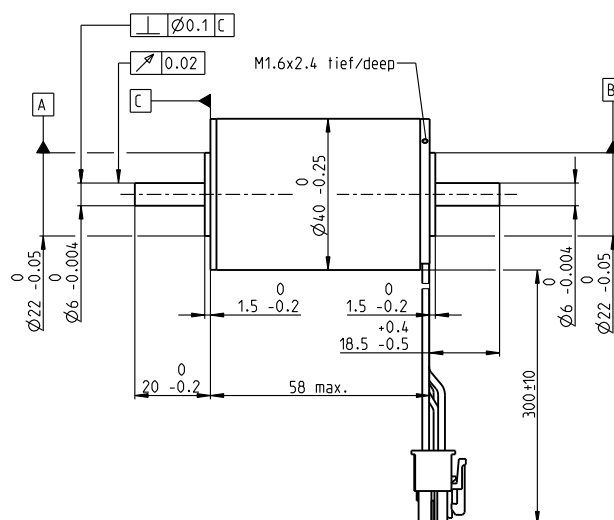




EC-max



-  Stock program
-  Standard program
- Special program (on request)

283866	283867	283868	283869
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Specifications	Operating range	Comments
Thermal data 17 Thermal resistance housing-ambient 4.63 K/W 18 Thermal resistance winding-housing 0.542 K/W 19 Thermal time constant winding 3.78 s 20 Thermal time constant motor 1060 s 21 Ambient temperature -40...+100°C 22 Max. winding temperature +155°C	<p>The graph plots speed n [rpm] on the y-axis (0 to 12000) against torque M [mNm] on the top x-axis (0 to 120) and current I [A] on the bottom x-axis (0 to 5). A red shaded region represents the continuous operating range, bounded by a vertical line at approximately 85 mNm and a horizontal line at 12000 rpm. An arrow points to the boundary of this region with the label "70 W". A black curve represents the assigned power rating. The number "283867" is shown in a red box.</p>	<div style="background-color: #f00; width: 20px; height: 10px; margin-bottom: 5px;"></div> Continuous operation In observation of above listed thermal resistance (lines 17 and 18) and an ambient temperature of 25°C, the maximum permissible winding temperature will be reached during continuous operation = thermal limit.
Mechanical data (preloaded ball bearings) 23 Max. speed 12 000 rpm 24 Axial play at axial load < 10 N 0 mm > 10 N 0.14 mm preloaded 25 Radial play 8 N 26 Max. axial load (dynamic) 211 N 27 Max. force for press fits (static) (static, shaft supported) 5000 N 28 Max. radial load, 5 mm from flange 80 N		<div style="border: 1px solid #ccc; width: 20px; height: 10px; margin-bottom: 5px;"></div> Short term operation The motor may be briefly overloaded (recurring).
		<div style="border-top: 1px solid #000; width: 20px; height: 10px; margin-bottom: 5px;"></div> Assigned power rating

Other specifications			Modular system		Details on catalog page 52	
29 Number of pole pairs	1					
30 Number of phases	3		Gear	Sensor	Motor Control	
31 Weight of motor	460 g		436-438_GP 42 A	509_ENX 16 EASY	547_DEC Module 50/5	
			439-441_GP 42 C	510_ENX 16 EASY XT	551_ESCON 36/3 EC	
				511_ENX 16 EASY Absolute	551_ESCON Module 50/5	
				512_ENX 16 EASY Absolute XT	551_ESCON Module 50/4 EC-S	
				539_Encoder HEDL 5540	552_ESCON Module 50/8 HE	
					553_ESCON 50/5, 70/10	
					557_ESCON2 Micro 60/5	
				Accessories	558_ESCON2 Module 60/12	
				586_Brake AB 28	559_ESCON2 Compact 60/12	
					563_EPOS4 Micro 24/5	
					564_EPOS4 Module 50/5	
					565_EPOS4 Compact 24/5 3-axes	
					565_EPOS4 Module 50/8	
					567_EPOS4 Compact 50/5, 50/8	
					569_EPOS4 50/5	
					569_EPOS4 70/15	
					570_EPOS4 Disk 60/8	
					571_EPOS4 Disk 60/12	

Values listed in the table are nominal.

Connection motor (Cable AWG 20)		
red	Motor winding 1	Pin 1
black	Motor winding 2	Pin 2
white	Motor winding 3	Pin 3
	N.C.	Pin 4

Connector	Part 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 _{Hall} 3...24 VDC	Pin 5
	N.C.	Pin 6

Connector	Part number
Molex	430-25-0600

Wiring diagram for Hall sensors see p. 67