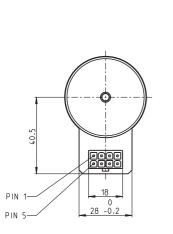
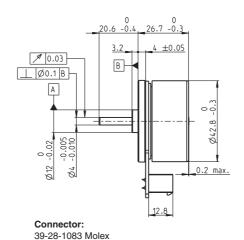
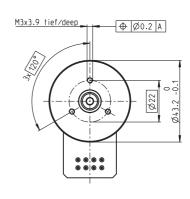
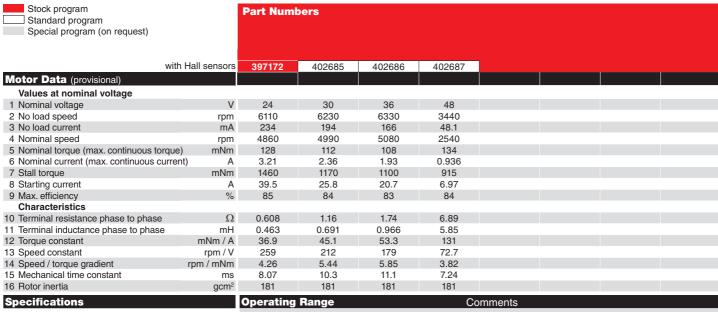
EC 45 flat Ø42.8 mm, brushless, 70 Watt







M 1:2



Thermal data Thermal resistance housing-ambient 3.56 K/W 18 Thermal resistance winding-housing 4.1 K/W 29.6 s 178 s -40 ... +100°C 19 Thermal time constant winding Thermal time constant motor Ambient temperature Max. winding temperature +125°C

Mechanical data (preloaded hall bearings)

	mconamour data (pro	oudcu buii	bearings,
23	Max. permissible speed	10 000 rpm	
24	Axial play at axial load	< 4.0 N	0 mm
		> 4.0 N	0.14 mm
25	Radial play		preloaded
26	Max. axial load (dynami	' 3.8 N	
27	Max. force for press fits (static)		50 N
	(static, shaft supported)	,	1000 N
28	Max. radial load, 8 mm		21 N

Other specifications Number of pole pairs 30 Number of phases 31 Weight of motor 141 g

Values listed in the table are nominal.

Connection	
Pin 1	Hall sensor 1*
Pin 2	Hall sensor 2*
Pin 3	V _{Hall} 4.5 18 VDC
Pin 4	Motor winding 3
Pin 5	Hall sensor 3*
Pin 6	GND
Pin 7	Motor winding 1
Pin 8	Motor winding 2
*Internal pull-u	ıp (7 13 kΩ) on pin 3
Wiring diagrar	n fòr Hall sensors see p. 35

Connection cable Universal, L = 500 mm Connection cable to EPOS, L = 500 mm 339380 354045

n [rpm] 70 W 10000 397172 8000-6000 4000-2000-75 100 125 150 M [mNm] 2.0 3.0 4.0 1.0

With Cable and Connector

(Ambient temperature -20 ... +100°C)

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.

Short term operation

The motor may be briefly overloaded (recurring).

Encoder MILE

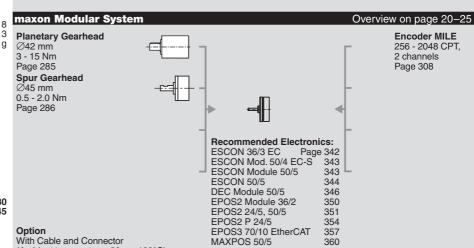
256 - 2048 CPT,

2 channels

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Assigned power rating

360



maxon EC motor 233