

Brushless Motor EC-i40HT 70W/EASY



The advantages :
 Servo motor with EASY 1024-point encoder and Line Driver
 Reduced dimensions - lightweight - focused torque - fast acceleration - long service life.

Associated products :

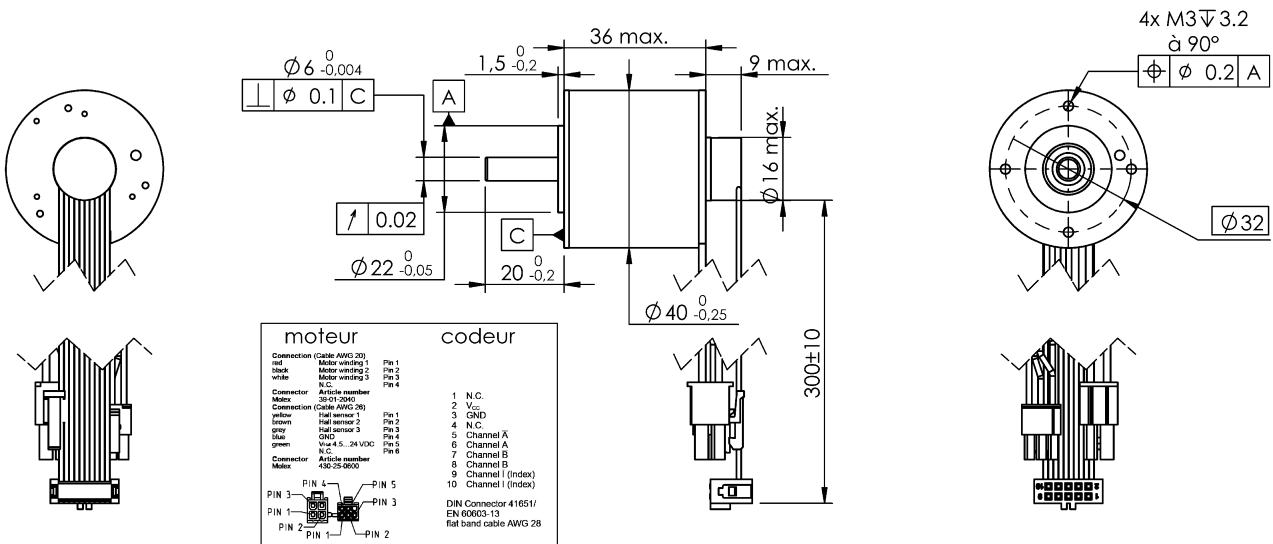
- > **Power supply**
 DR-100-24
 DRP-240-24
 DRP-480S-24
 RS-150-24
 SP-320-24
- > **Controller**
 EPOS2P 24/5
 EPOS4 70/15
 ESCON 50/5

maxon motor

52 W - 116 W

Power supply voltage (Ua)	V	12	18
Speed at current In	tr/mn	4480	6900
Torque at current In	mNm	111	111
Maximum permanent current In	mA	5130	5130
Ua no-load speed +/- 10%	tr/mn	3485	7840
No-load current +/- 50%	mA	448	448
Ua stall current	mA	70667	106000
Ua stall torque	mNm	1527	2290
Torque constant	mNm/A	21.7	21.7
Speed constant	tr/mn/V	441	441
Speed/torque gradient	tr/mn/mN	3.47	3.47
Limit speed	tr/mn	10000	10000
Maximum Ua operating power	W	139	471
Maximum efficiency	%	88	88
Electromechanical time constant	ms	0.835	0.835
Inertia	gcm ²	23	23
Terminal resistance phase to phase	Ohm	0.17	0.17
Inductance	mH	0.113	0.113
Ambient/Housing thermal	K/W	8.17	8.17
Coil/Housing thermal resistance	K/W	2.27	2.27
Coil thermal time constant	s	21.8	21.8
Housing thermal time constant	s	1020	1020
Test voltage	V	18	18
Nominal operating power output	W	52.1	80.2
Max permanent operating power	W	116	116

Commutation	brushless
Number of phases	3
Bearings	roulements préchargés
Maximum axial load (dynamic)	7 N
Minimum axial play	0 mm
Maximum axial play	0.15 mm
Maximum radial load	26.1 N
at a distance from the face of:	5 mm
Radial play	preloaded mm
Maximum slip force (static)	26.1 N
If fixed rear axis	5000 N
Minimum ambient operating temperature	-40 °C
Maximum ambient operating temperature	100 °C
Maximum coil temperature	155 °C
Weight	250 g



Edition: Juli 2022 / subject to modification

Version of 06/07/2022