

## Brushless Motor EC-i40HT 100W/EASY



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

### Associated products :

- > Power supply  
 DRP-240-24  
 DRP-480S-24  
 SP-320-24
- > Controller  
 EPOS4 70/15  
 ESCON 70/10

### maxon motor

### 90 W - 183 W

Power supply voltage (Ua)	V	18	24
Speed at current In	tr/mn	3930	5335
Torque at current In	mNm	218	218
Maximum permanent current In	mA	5700	5700
Ua no-load speed +/- 10%	tr/mn	4550	6067
No-load current +/- 50%	mA	352	352
Ua stall current	mA	87000	116000
Ua stall torque	mNm	3260	4347
Torque constant	mNm/A	37.5	37.5
Speed constant	tr/mn/V	255	255
Speed/torque gradient	tr/mn/mN	1.41	1.41
Limit speed	tr/mn	8000	8000
Maximum Ua operating power	W	389	691
Maximum efficiency	%	88	88
Electromechanical time constant	ms	0.648	0.648
Inertia	gcm <sup>2</sup>	44	44
Terminal resistance phase to phase	Ohm	0.207	0.207
Inductance	mH	0.169	0.169
Ambient/Housing thermal	K/W	7.17	7.17
Coil/Housing thermal resistance	K/W	1.35	1.35
Coil thermal time constant	s	23.1	23.1
Housing thermal time constant	s	1400	1400
Test voltage	V	18	18
Nominal operating power output	W	89.7	122
Max permanent operating power	W	183	183

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	29.9 N
at a distance from the face of:	5 mm
Radial play	preloaded mm
Maximum slip force (static)	87 N
If fixed rear axis	3000 N
Minimum ambient operating temperature	-40 °C
Maximum ambient operating temperature	100 °C
Maximum coil temperature	155 °C
Weight	390 g

