

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

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|------------------------------------|------------------|-------|--------|
| 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 |

