

Brushless Motor EC-i30HT



The advantages :
 Servo motor,
 High rotation speed and fast ,
 Reduced dimensions and high torque.

Associated products :

- > **Encoder**
- HEDL 5540
- HEDS 5540
- > **Power supply**
- DR-120-24
- DRP-240-24
- DRP-480S-24
- RS-100-24
- RS-150-24
- RS-75-24
- SP-320-24

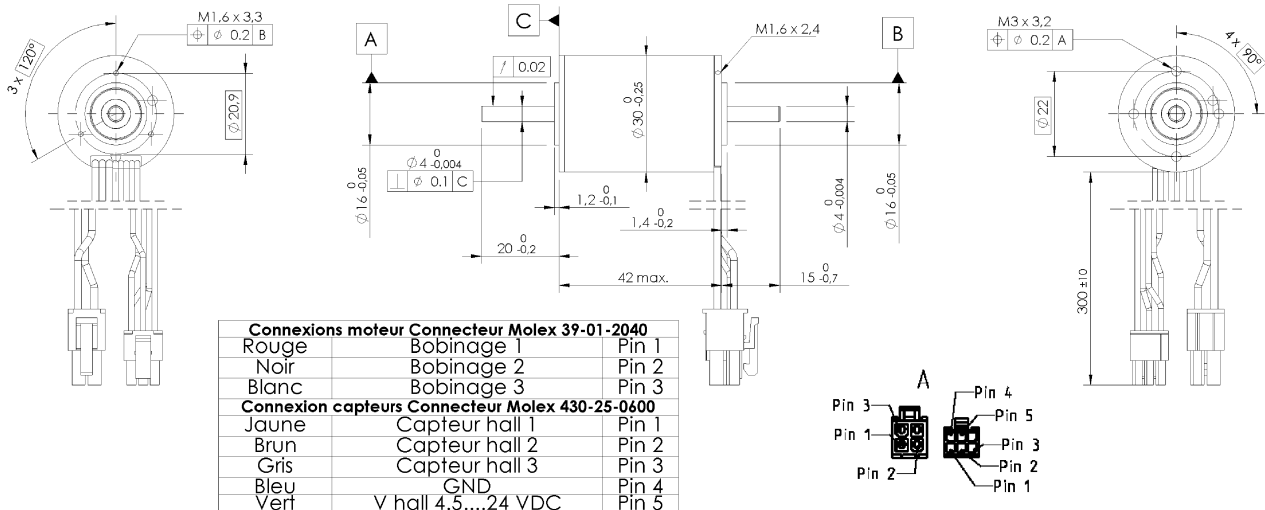
- > **Controller**
- EPOS4 50/5
- EPOS4 70/15
- ESCON 50/5
- ESCON 70/10
- NANO BLDC

maxon motor

46 W - 67 W

| | | |
|------------------------------------|------------------|-------|
| Power supply voltage (Ua) | V | 24 |
| Speed at current In | tr/mn | 7030 |
| Torque at current In | mNm | 63.8 |
| Maximum permanent current In | mA | 2280 |
| Ua no-load speed +/- 10% | tr/mn | 8520 |
| No-load current +/- 50% | mA | 143 |
| Ua stall current | mA | 30500 |
| Ua stall torque | mNm | 811 |
| Torque constant | mNm/A | 26.6 |
| Speed constant | tr/mn/V | 359 |
| Speed/torque gradient | tr/mn/mN | 10.6 |
| Limit speed | tr/mn | 10000 |
| Maximum Ua operating power | W | 181 |
| Maximum efficiency | % | 86.9 |
| Electromechanical time constant | ms | 0.902 |
| Inertia | gcm ² | 8.1 |
| Terminal resistance phase to phase | Ohm | 0.787 |
| Inductance | mH | 0.749 |
| Ambient/Housing thermal | K/W | 11.1 |
| Coil/Housing thermal resistance | K/W | 3.75 |
| Coil thermal time constant | s | 27.8 |
| Housing thermal time constant | s | 866 |
| Test voltage | V | 24 |
| Ambient temperature | °C | 25 |
| Nominal operating power output | W | 46.10 |
| Max permanent operating power | W | 66.8 |

| | |
|---------------------------------------|-----------------------|
| Commutation | Electronic |
| Number of phases | 3 |
| Bearings | Roulements préchargés |
| Magnets | NdFeB |
| Maximum axial load (dynamic) | 5 N |
| Minimum axial play | 0 mm |
| Maximum axial play | 0.14 mm |
| Maximum radial load | 25 N |
| at a distance from the face of: | 5 mm |
| Radial play | 0 mm |
| Maximum slip force (static) | 98 N |
| If fixed rear axis | 2000 N |
| Minimum ambient operating temperature | -40 °C |
| Maximum ambient operating temperature | +100 °C |
| Maximum coil temperature | +155 °C |
| Weight | 156 g |



Edition: Juli 2022 / subject to modification

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