

Brushless Motor EC-i30HT



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

Associated products :

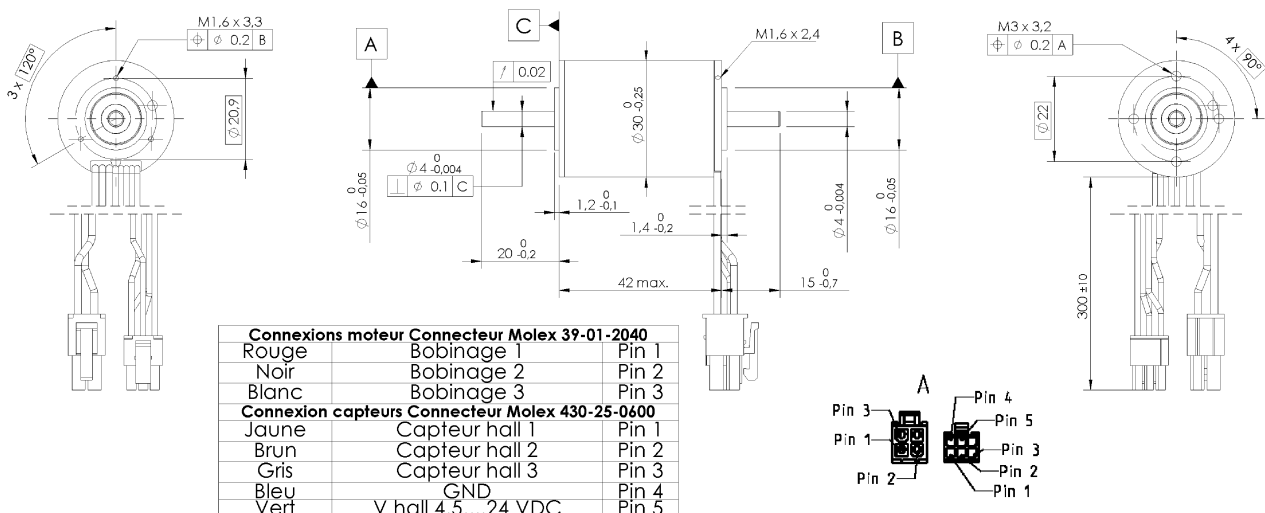
- > **Encoder**
 HEDL 5540
 HEDS 5540
- > **Power supply**
 DR-120-24
 DRP-240-24
 DRP-480S-24
 RS-100-24
 RS-150-24
 RS-75-24
 SP-320-24
- > **Controller**
 EPOS4 50/5
 EPOS4 70/15
 ESCON 50/5
 ESCON 70/10
 NANO BLDC

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

Version of 06/07/2022

