notion

iMR 100

48V, Incremental encoder, With Brake

Order number: 2L057B030NXXXF-RT03

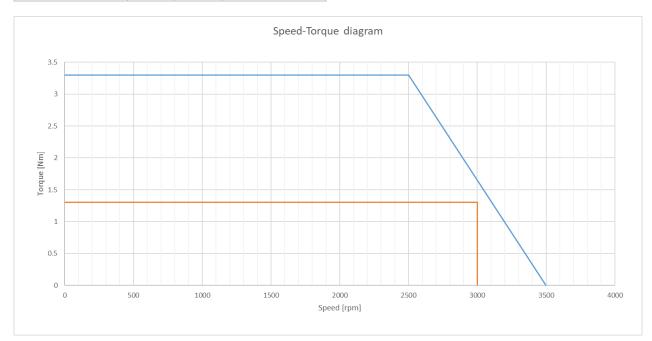
Characteristic	Unit	Value
Wheel Diameter	mm	156
Gearbox Type		Planetary Helical
Gearbox Ratio		10:1
Rated Voltage	V _{DC}	48

SpecificationDetailWheel MaterialPU-Rad: 78°±3° Shore ABrake2NmThermal ProtectionKTY-84

Motor specs

Characteristic	Abbr.	Unit	Value
Motor technology			SPM
No of poles			10
Rated Voltage	U _{mot}	V _{rms}	48
S1 Rated speed	n _n	rpm	3000
Maximum speed	n _{max}	rpm	3300
Rated power	Pn	W	400
Stall torque	M ₀	Nm	1.3
S1 Rated torque	Mn	Nm	1.3
Peak torque	M _{max}	Nm	3.3
Stall current	I ₀	A _{rms}	10
S1 Rated current	In	A _{rms}	10
Peak current	I _{max}	A _{rms}	22

Characteristic	Abbr.	Unit	Value
Torque constant (hot)	kt _{hot}	Nm/A _{rms}	0.14
Torque constant (cold)	kt _{cold}	Nm/A _{rms}	0.12
Voltage constant	ke	V/krpm	8.6
Winding resistance	R _{p-p}	Ω	0.27
Winding inductance	L _{p-p}	mH	0.58
Max ambient operating			40°C
temperature			
Insulation class			F – 155°C



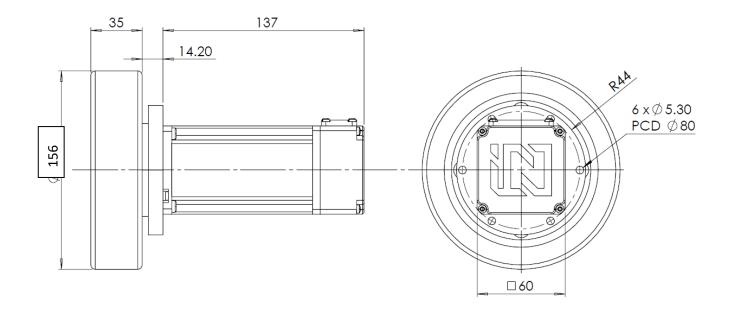
Netic





Dimensions









Feedback specifications

Characteristic	Value
Manufacturer	iNetic
Туре	incremental encoder with Commutation signals
Resolution	4096 ppr
Hysteresis	0.18°
Accuracy	±0.5°
Supply voltage	5 V _{DC}
Current Consumption	13 mA to 50 mA

Connector guide

No connectors, Cable leads only

Power:

Phase	Cable
U	Black, AWG14
V	Blue, AWG14
W	White, AWG14

Cable length: 0.5 m

Thermistor: Black and white AWG26 cables

Signal - Feedback

Signal	Colour
U	Black
V	Violet
W	Grey/Pink
A+	Pink
A-	Grey
B+	Green
В-	Yellow
Z+	White
Z-	Brown
V _{dd} (+5 V)	Red
GND	Blue

Cable length: 0.5 m

NOTE: 1) The data provided in this datasheet is for guidance only and does not form part of any contract. 2) Motor, drive, gearbox and brake should undergo application testing to validate performance.

iN Motion is part of iNetic www.inetic.com



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