# notion

iNX 90

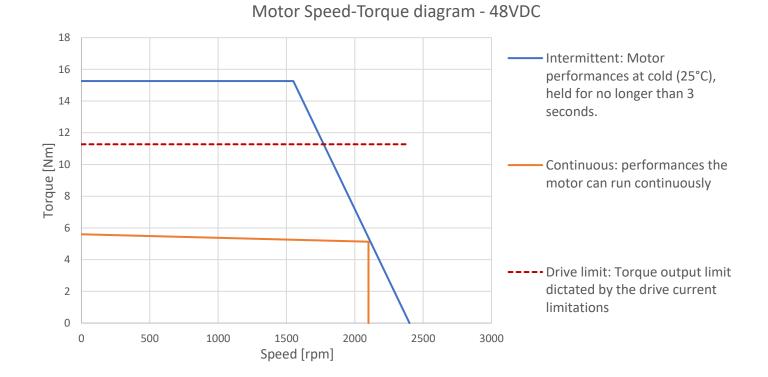
Double Encoder, No Drive

Order number: 2L085X021NXXXD

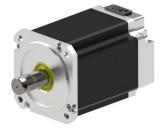
#### MOTOR SPECIFICATIONS

Characteristic	Abbr.	Unit	Value
Motor technology			SPM
No of poles			10
Rated Voltage	U <sub>mot</sub>	Vrms	48
S1 Rated speed	n <sub>n</sub>	rpm	2100
Maximum speed	n <sub>max</sub>	rpm	2400
Rated power	Pn	W	1130
Stall torque	M <sub>0</sub>	Nm	5.6
S1 Rated torque	Mn	Nm	5.1
Peak torque	M <sub>max</sub>	Nm	15.26
Stall current	lo	Arms	31.9
S1 Rated current	In	Arms	27.3
Peak current	I <sub>max</sub>	Arms	87

Characteristic	Abbr.	Unit	Value
Torque constant (hot)	kt <sub>hot</sub>	Nm/A <sub>rms</sub>	0.19
Torque constant (cold)	kt <sub>cold</sub>	Nm/A <sub>rms</sub>	0.21
Voltage constant	ke	V/krpm	13.6
Winding resistance	R <sub>p-p</sub>	Ω	0.07
Winding inductance	L <sub>p-p</sub>	mH	0.22
Max ambient operating temperature			40°C
Insulation class			F – 155°C
Thermal Protection			КТҮ-84

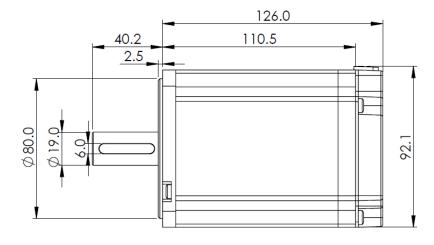


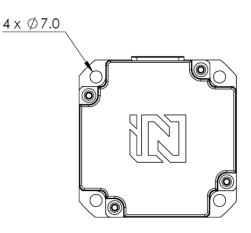
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#### FEEDBACK SPECIFICATIONS

Characteristic	Value
Manufacturer	Renishaw RLS
Туре	Double incremental encoder with Commutation signals
Resolution	12 bit; 4096 ppr
Hysteresis	0.18°
Accuracy	±0.5°
Supply voltage	5 V <sub>DC</sub>
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

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#### Signal - Feedback 1

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

Cable length: 0.3 m

#### Signal - Feedback 2

Signal	Colour
A+	Pink
A-	Grey
B+	Green
В-	Yellow
Z+	White
Z-	Brown
V <sub>dd</sub> (+5 V)	Red
GND	Blue

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

