

ILT2V573MB0A

Motion integrated drive, Lexium integrated drive, ILT with stepper motor, 24VDC to 48VDC, pulse/direction, 1.44Nm



Main

Range of Product	Lexium integrated drive
Product or Component Type	Motion integrated drive
Device short name	ILT
Motor Type	2-phase stepper motor
Network type	DC
Electrical Connection	Flying leads
[Us] rated supply voltage	24...48 V
Communication interface	Pulse/Direction 5 -24 V
Length	3.88 in (98.55 mm)
Winding type	Medium speed of rotation and medium torque
Holding brake	Without
Gear box type	Without
Nominal speed	300 rpm 24 V 450 rpm 48 V
Holding torque	12.75 lbf.in (1.44 N.m)

Complementary

Mounting Support	Flange
Motor flange size	2.24 in (57 mm)
Feedback type	Without
Supply voltage limits	12...48 V
Current consumption	3.2 A maximum continuous
Input/output type	3 inputs (Step Clock, Direction, Enable)
Voltage state 1 guaranteed	>= 2.2 V
Protection Type	Overload of output voltage Short circuit of the output voltage
Peak stall torque	12.75 lbf.in (1.44 N.m)
Continuous stall torque	12.75 lbf.in (1.44 N.m)
Speed feedback resolution	1000 steps 10000 steps 12800 steps 1600 steps 200 steps 2000 steps 20000 steps 25000 steps 25600 steps 3200 steps 400 steps 40000 steps 5000 steps 50000 steps 51200 steps 6400 steps 800 steps
Accuracy error	+/- 0.3 arc/min
Rotor inertia	0.46 kg.cm²
Service life in hours	20000 h

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Marking	CE
Net Weight	2.45 lb(US) (1.11 kg)

Environment

Standards	IEC 61000-4-11 EN 61000-3-2 : 2006 EMC immunity IEC 61000-4-2 IEC 61000-4-6 IEC 61000-4-3 EN 55011:2007, A2:2007 for Group 1, Class A EN 61000-3-3:1995, A1:2001, A2:2005 IEC 61000-4-4 IEC 61000-4-5
Ambient air temperature for operation	122...149 °F (50...65 °C) with power derating of 2 % per °C) 32...122 °F (0...50 °C) without derating)
Permissible ambient air temperature around the device	212 °F (100 °C)
Ambient Air Temperature for Storage	-13...158 °F (-25...70 °C)
Operating altitude	<= 3280.84 ft (1000 m) without derating
Relative humidity	15...85 % without condensation
IP degree of protection	Total except shaft bushing IP20 EN/IEC 60034-5 Shaft bushing IP41 EN/IEC 60034-5

Ordering and shipping details

Category	11300-MISC. ITEMS
Discount Schedule	NET
GTIN	3606480156885
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.54 in (9.0 cm)
Package 1 Width	5.31 in (13.5 cm)
Package 1 Length	7.80 in (19.8 cm)
Package 1 Weight	2.88 lb(US) (1.308 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	24.64 lb(US) (11.177 kg)

Offer Sustainability

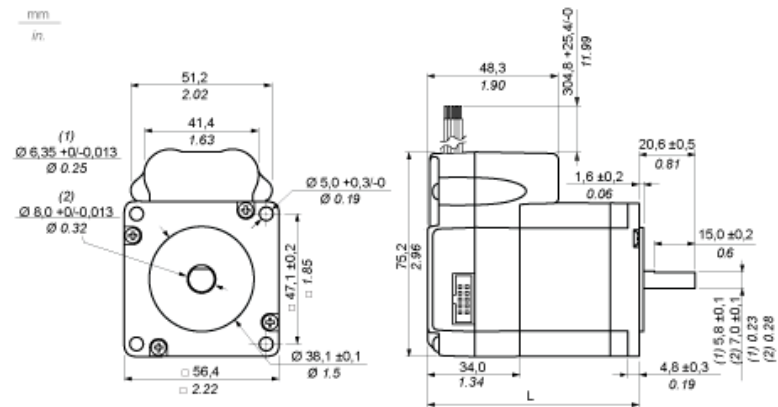
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

Contractual warranty

Warranty	18 months
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Integrated Drive with Flying Leads

Dimensions



- (1) Single, Double & Triple Length Motors
(2) Quad Length Motor
L 98.55 mm/3.88 in.

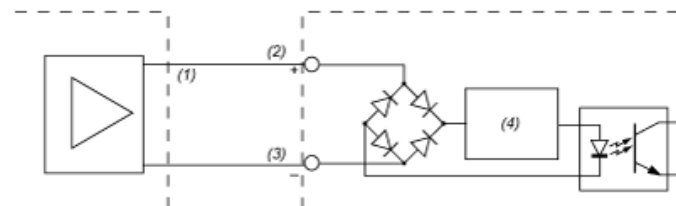
Multifunction Interface

Wiring Diagrams

The multifunction interface operates at 5 to 24 V opto-isolated, sinking or sourcing

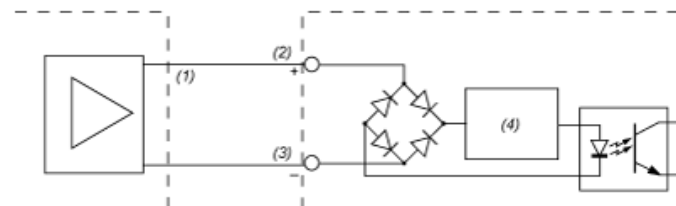
The reference pulses are supplied via two of the signal inputs as pulse/direction signals. The remaining signal inputs have the function "power amplifier enable/pulse blocking" and optocoupler reference, which establishes the inputs as sinking or sourcing.

Circuit of signal inputs sinking



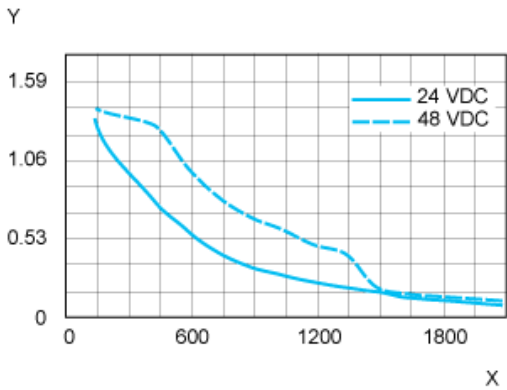
- (1) 5 to 24 V
- (2) Opto reference
- (3) Input
- (4) Constant current source

Circuit of signal inputs sourcing



- (1) 5 to 24 V
- (2) Input
- (3) Opto reference
- (4) Constant current source

Torque Characteristics



X Speed of rotation in rpm
Y Torque in Nm