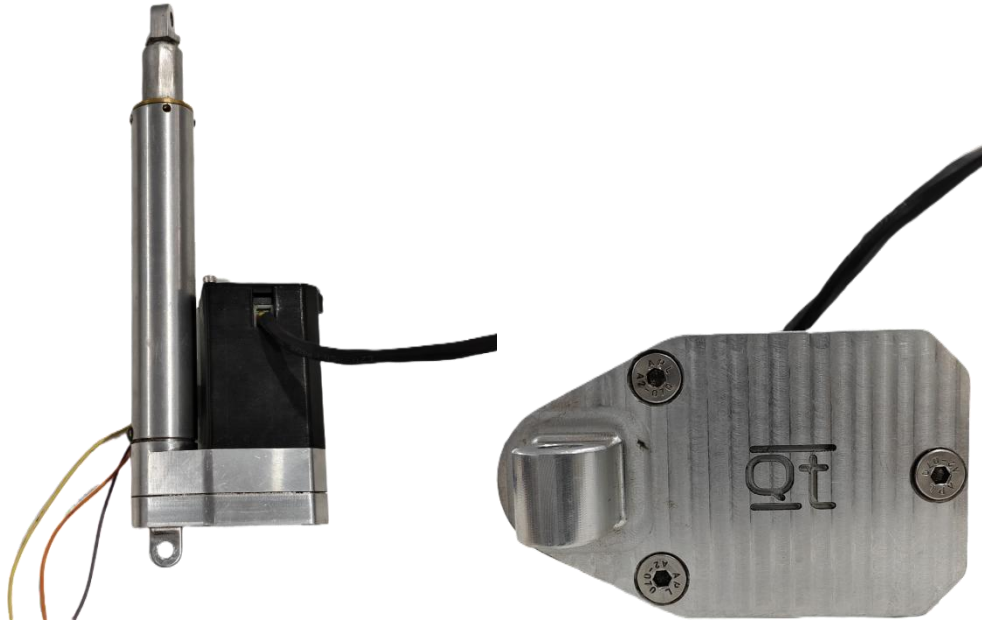


DATASHEET

QT-M-EM-005



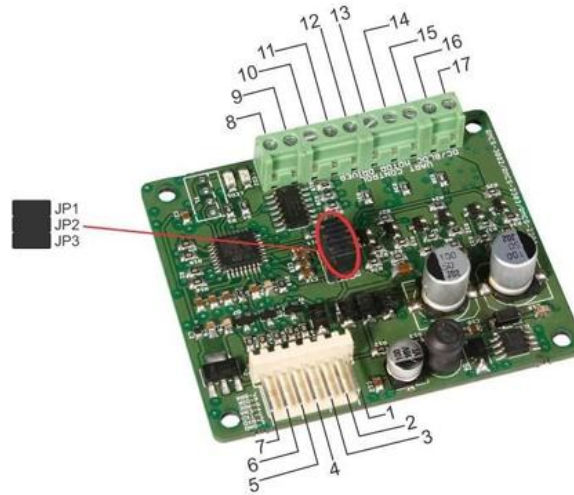
Actuator Technical Specifications	
Design Specification	Value
Stroke	100 mm
Rated Dynamic Axial Load	300 N
Speed	30 mm/s
Max Rated Current	2.18 A
Accuracy	$\leq 0.1\text{mm}$
Nominal Voltage	24 V
Encoder Provided	Yes
Operating Temperature	-10 to 80 degree C
Dimensions	193 mm x 77 mm x 47 mm

Motor Specifications	
Design Specification	Value
Nominal Voltage	24 V
No Load Current	0.45 A
No Load Speed	5800 RPM
Rated Speed	4000 RPM
Rated Torque	0.12 Nm
Output Power	52 W
Insulation Class	B
Phase to Phase Resistance	0.73 Ohms
Operating Temperature	-10 to 80 degree C
Required Encoder Voltage	5 V

Actuator Connections	
Wire Description	Value
BLUE < Motor Phase>	W
GREEN < Motor Phase>	V
YELLOW < Motor Phase>	U
GND	GND
RED	+5V
BLUE <HALL W>	HW
GREEN <HALL V>	HV
YELLOW <HALL U>	HU

Pin 1-7 are control Pins for microcontroller Interfacing	
Wire Color	Value
Blue	GND
Brown	DIR
Red	PWM
Orange	EN
Black	Brake

Green	Rx (Optional) ASCII UART ModBus
Yellow	Tx (Optional) ASCII UART ModBus



Driver Details	
Design Specification	Value
Supply Voltage	12 – 30 VDC, Between +ve and GND
Phase Current	0.5 - 3 A, Peak 3 Amps per phase

Pins 8 - 17 are connected to motor and power supply as described	
Pin No.	Value
8	GND
9	+5VDC
10	ENC_B/HALL W
11	ENC_A/HALL V
12	HALL U
13	W
14	Motor -/ V
15	Motor +/- U
16	VDD
17	GND

CONTACT DETAILS

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Branch IFSC: KKBK0000725
Branch name: PUNE - PIMPRI CHINCHWAD