

PM635KE/KT DC Motor Driven Roller

PM635KE (10 AMP); PM635KT (7 AMP)

Diameter: 2.50" (63.5mm)
Voltage: 24V DC

Standard Features

- Brushless DC motor provides long life
- 11/16" Hex (threaded) shafts standard
- ABEC 1 Bearings
- DOM, carbon steel tube
- Heavy duty pallet handling
- Low profile requirement of pallet handling
- 1000mm (39.37") power cable standard
- One shaft mounting, cable side



Available as spring loaded shaft

* Double sprocket end cap available in non spring loaded shaft only

Operation

- Cycle: 1s ON; 1s OFF
- Continuous or intermittent duty
- Do not exceed 150% of no-load speed

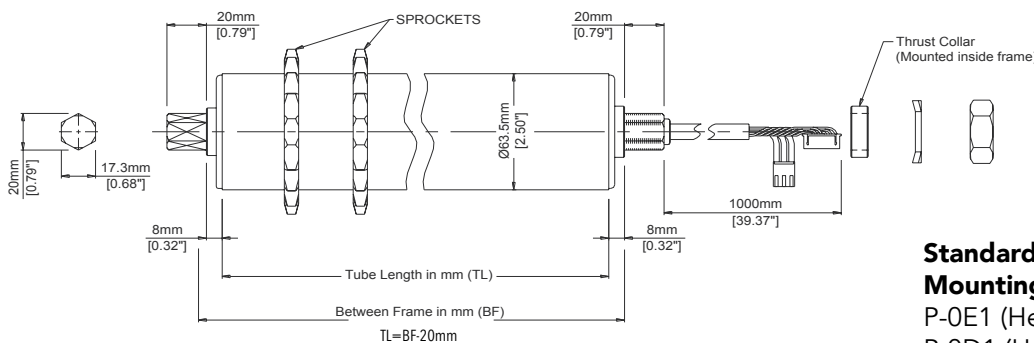
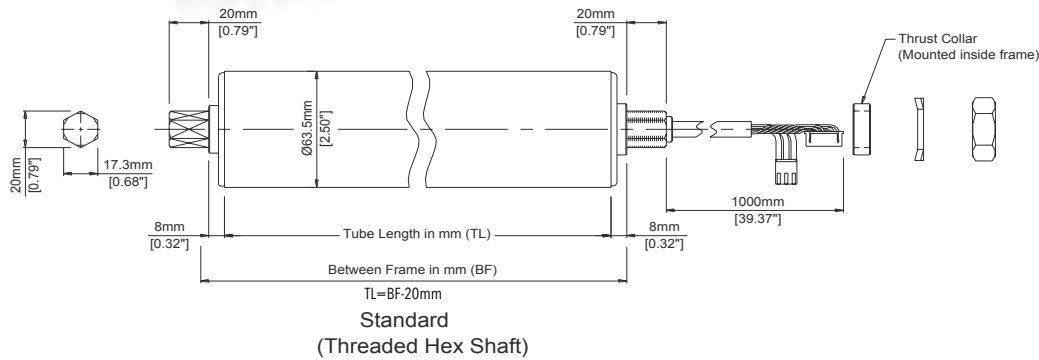
Protection

- Thermal overload 221°F (105°C) in the motor when used with an Itoh Denki controller

Environment

- Ambient temperature 32~104° F (0~40°C)
- < 90% relative humidity (no condensation)
- No corrosive gases
- Vibration < 0.5G

Available Options



OS= Other Specifications

If needed, call out welded sprockets when ordering: 40A21, 50A17, or 60A15.

Standard Threaded Hex Shaft Mounting Brackets

P-OE1 (Hex point up)

P-OD1 (Hex flat up)

*Thrust collar nuts are to be tightened to 110.6 lb · ft ± 10%

1 mounting bracket needed for this roller

See page 52 for bracket diagrams

PM635KE: cable has 2 connectors for use with the CBM-103FN driver card

CBM-103FN 10 speed settings								
Gear Stage	Speed Code	No-load (FPM)		Tangential force (lb) Starting	Torque (lb-in) Starting	Current (A) At highest speed		
		SW2 9 High	SW2 0 Low			Starting	No-Load	Rated
3	16	52.5	6.6	228.6	285.9	10.0	0.7	2.8
2	60	199.5	24.9	63.3	78.8	10.0	0.8	2.8
1	230	757.9	94.8	17.5	22.1	10.0	0.9	2.8

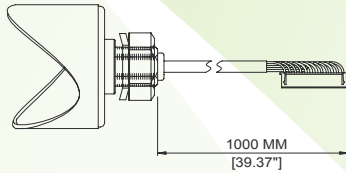
See page 30 for CBM-103 diagram



PM635KT: 12 pin motor connector for use with the CB-030S or IB-E04 driver card

CB-030S 20 speed settings								
Gear Stage	Speed Code	No-load (FPM)		Tangential force (lb) Starting	Torque (lb-in) Starting	Current (A) At highest speed		
		SW2 9 High	SW2 0 Low			Starting	No-Load	Rated
3	16	59.4	7.5	181.6	227.4	7.0	0.7	2.9
2	60	225.1	28.2	50.3	62.8	7.0	0.8	2.9
1	230	855.3	107.3	13.9	17.7	7.0	0.9	2.9

See page 29 for CB-030S diagram









PM635KT with 12 pin motor connector

See page 39 for IB-E04 diagram
*Controls 2 Power Mollers



Minimum Tube Lengths

		GEAR STAGES		
		1	2	3
		360mm (14.17")	380mm (14.96")	400mm (15.75")
		325mm (12.80")	345mm (13.58")	365mm (14.37")
		360mm (14.17")	380mm (14.96")	400mm (15.75")
		360mm (14.17")	380mm (14.96")	400mm (15.75")

TL Considerations for non-standard EC

- SW: BF - 63mm = TL
- VG: BF - 66mm = TL
- OS: BF - 20mm = TL
- Contact an Itoh Denki representative to review your specific application