

PM486FE DC Motor Driven Roller

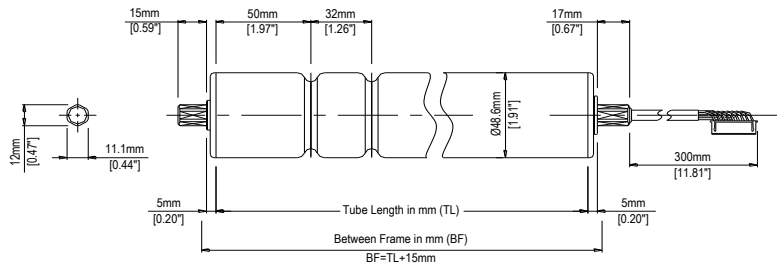


Diameter: 1.91" (48.6mm)
Voltage: 24V DC

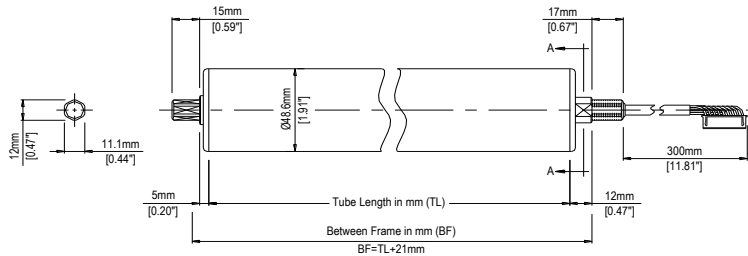
Features

- Brushless DC motor provides long life
- ABEC 1 Bearings
- DOM, zinc plated, carbon steel tube
- One shaft mounting
- 7/16" Hex (plain) shafts standard
- Dynamic brake

Dimensions



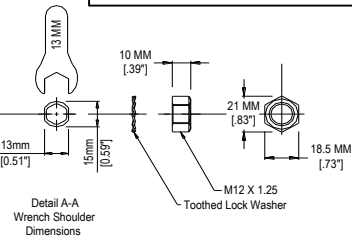
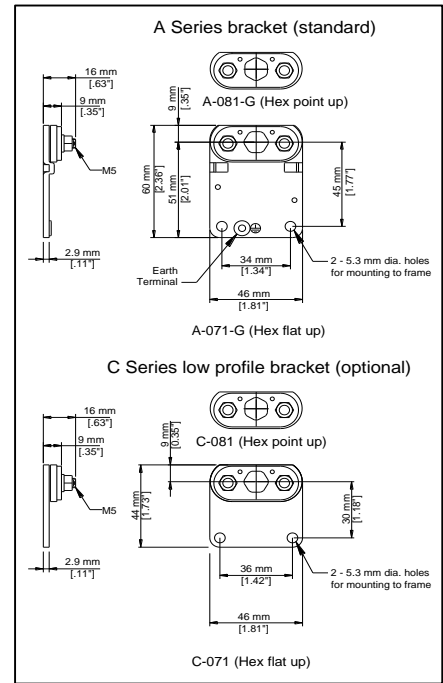
Standard Hex Shafts with Grooved Tube



JQ - (Threaded Hex Shaft with Wrench Shoulder) / Straight Tube

All shaft configurations available with grooved tube or straight tube.

Mounting Brackets



JQ shaft standard mounting hardware: toothed lock washer and nut*

*Note: Nuts are to be tightened to 22.1 lb-ft ± 10%

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

PM486FE Performance Data

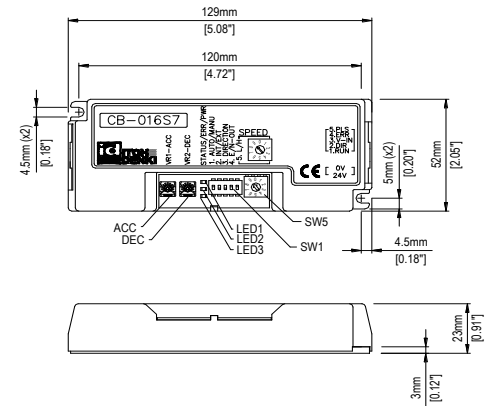


CB-016S7 20 speed settings								
Gear Stage	Speed Code	No-load (FPM)		Tangential Force (lb) Starting	Torque (lb-in) Starting	Current (A)		
		SW1-5 on High	SW1-5 off Low			At highest speed		
		SW5 9	SW5 0			Starting	No-Load	Rated
3	5	24.0	6.9	95.0	90.8	3.6	0.3	1.6
	8	34.1	6.9	98.5	94.2	4.0	0.4	2.1
	10	44.7	6.9	95.0	90.8	4.0	0.5	2.4
2	17	55.3	6.9	77.4	74.0	4.0	0.8	2.8
	20	85.3	24.6	30.3	29.0	3.6	0.3	1.6
	30	121.4	24.6	31.5	30.1	4.0	0.4	2.1
1	45	159.1	24.6	30.3	29.0	4.0	0.5	2.4
	60	196.8	24.6	24.7	23.7	4.0	0.8	2.8
	70	303.2	87.6	9.7	9.3	3.6	0.3	1.6
1	100	431.5	87.6	10.1	9.6	4.0	0.4	2.1
	140	565.6	87.6	9.7	9.3	4.0	0.5	2.4
	210	699.7	87.6	7.9	7.6	4.0	0.8	2.8

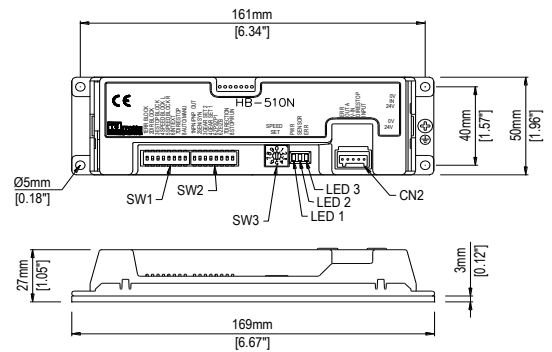
HB-510N 10 speed settings								
Gear Stage	Speed Code	No-load (FPM)		Tangential Force (lb) Starting	Torque (lb-in) Starting	Current (A)		
		SW3 9 High	SW3 0 Low			At highest speed		
		SW3 9	SW3 0			Starting	No-Load	Rated
3	5	24.0	13.8	95.0	90.8	3.6	0.3	1.4
	8	34.1	13.8	98.5	94.2	4.0	0.4	1.8
	10	44.7	13.8	95.0	90.8	4.0	0.5	2.2
2	17	55.3	13.8	77.4	74.0	4.0	0.8	2.6
	20	85.3	49.2	30.3	29.0	3.6	0.3	1.4
	30	121.4	49.2	31.5	30.1	4.0	0.4	1.8
1	45	159.1	49.2	30.3	29.0	4.0	0.5	2.2
	60	196.8	49.2	24.7	23.7	4.0	0.8	2.6
	70	303.2	174.8	9.7	9.3	3.6	0.3	1.4
1	100	431.5	174.8	10.1	9.6	4.0	0.4	1.8
	140	565.6	174.8	9.7	9.3	4.0	0.5	2.2
	210	699.7	174.8	7.9	7.6	4.0	0.8	2.6

Performance data with other cards available upon request.

CB-016S7



HB-510N



Minimum Tube Lengths and Options



With spring loaded shaft

Option	Gear Stages		
	1	2	3
Non Grooved Tube	244mm (9.61")	267mm (10.51")	290mm (11.42")
VP or VG belt pulley end cap	244mm (9.61")	267mm (10.51")	290mm (11.42")
Lagging	Wide range of rubber lagging available		
LT Low Temperature	LT Low temperature option available		

Option	Gear Stages		
	1	2	3
P2 Double Groove Tube (50/32)	293mm (11.54")	316mm (12.44")	339mm (13.35")
BR Brake and P2 Double Groove (50/32)	357mm (14.06")	381mm (15.00")	404mm (15.91")
WA Waterproof (IP-65) and P2 Double Groove (50/32)	302mm (11.89")	325mm (12.80")	348mm (13.70")

VP - Between Frame -35mm = Tube length
VG - Between Frame -41mm = Tube length