

Z3C2R-001

Combination Air Engaged Friction Clutch, Spring Engaged Friction Brake, Stop & Start the Shaft
NEMA 56C Frame Mount



Suitable for pulley output

Clutch Engagement/Brake Engagement

Air/Air

Facing Type (Clutch & Brake)

High Coefficient

Clutch Torque @ 80 PSI (max) – Dynamic

111 Pound Inches

Brake Torque @ 80 PSI (max) – Dynamic

111 Pound Inches

Maximum RPM

1,750

Input Bore/Output Shaft

0.625 Inches

Air Volume New (Clutch & Brake)

0.17 Cubic Inches

Air Volume Worn (Clutch & Brake)

0.49 Cubic Inches

Finish

Aluminum

Overhung Load Capacity

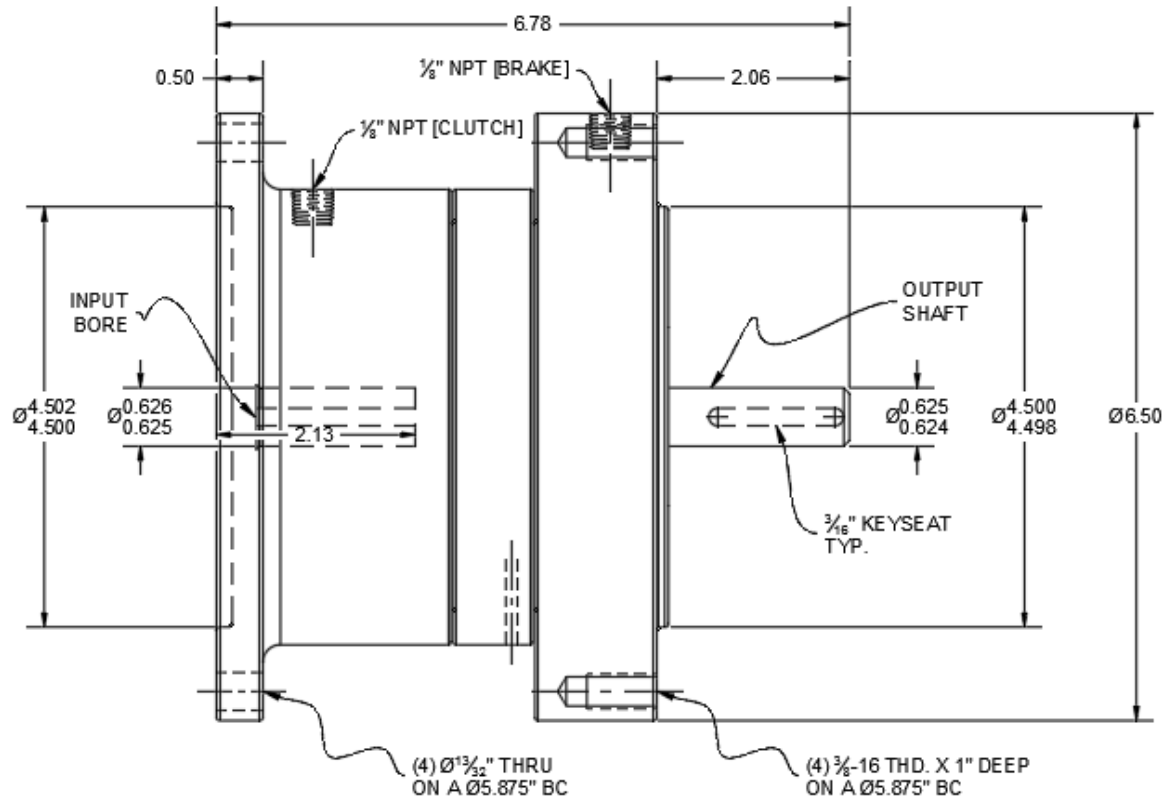
93 Pounds

Open or Enclosed Construction

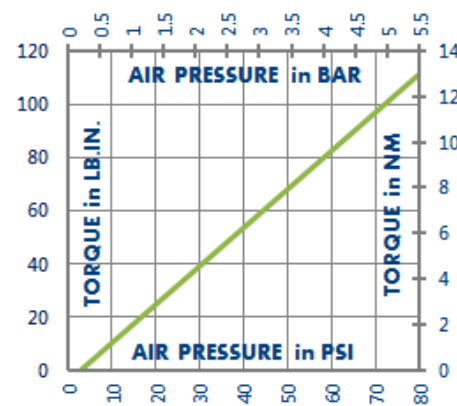
Open

Shipping Weight

8 Pounds



TORQUE vs. AIR PRESSURE



NEW vs. BURNISHED TORQUE

The torque output of a new friction brake or clutch can be up to 40% less than the published torque rating. To achieve full design torque, a unit must be cycled under load to burnish the friction surfaces. The exact number of cycles varies by application.

When calculating required torque always use a safety factor of 1.5 to 2. It is not recommended to select a product for use at its maximum rated torque for continuous duty.

PRODUCT SELECTION

Torque capacity is only one factor to consider when making a product selection. Ensure that you will have the right product for the job by contacting our engineering department for application review and selection assistance.



101 Cummings Drive
Walton, KY 41094 USA

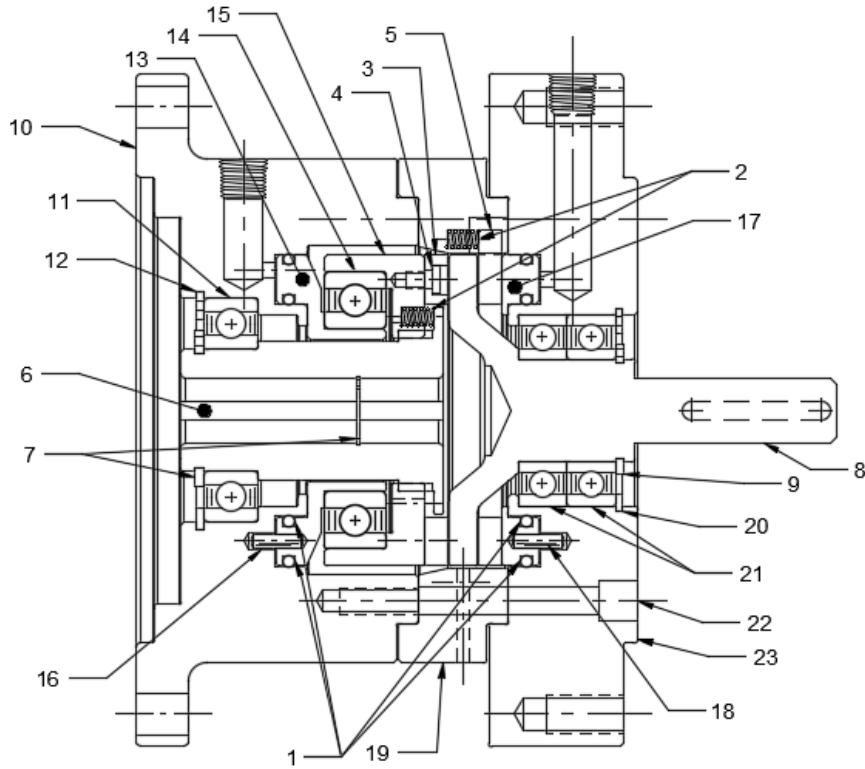
859-291-0849

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Parts Diagram



REF#	DESCRIPTION & PARTS INCLUDED	QUANTITY	KIT NUMBER
	REPAIR KIT		Z3C2R-001-RPRK
1	O-Ring	4	
2	Coil Spring	6	
3	Friction Disc (Clutch)	1	
4	Screw	3	
5	Friction Disc (Brake)	1	
	DRIVE HUB KIT		Z3C2R-001-HUBK
6	Drive Hub	1	
7	Retainer Ring	2	
	MALE HUB KIT		Z3C2R-001-MHBK
8	Male Hub	1	
9	Retainer Ring	1	
	CYLINDER KIT		Z3C2R-001-CYLK
10	Cylinder	1	
11	Bearing	1	
12	Retainer Ring	1	
	PISTON KIT - CLUTCH		Z3C2R-001-PSCK
13	Cone	1	
14	Bearing	1	
15	Drive Disc	1	
16	Pin	2	
	PISTON KIT - BRAKE		Z3C2R-001-PSBK
17	Piston	1	
18	Pin	2	
19	SPACER	1	Z3C2R-001-P027
	MALE ADAPTER KIT		Z3C2R-001-MADK
20	Retainer Ring	1	
21	Bearing	2	
22	Screw	3	
23	Adapter Male	1	

PARTS KITS

The *Repair Kit* contains common wear items for this product. Users are encouraged to stock one or more repair kits considering the number of units installed and the potential downtime if machinery on which the unit is installed is critical equipment. To obtain current pricing and lead time for parts kits, contact customer service.

orders@machiii.com

ADDITIONAL PRODUCT INFORMATION

For illustrated guides showing how Mach III products work, selection guidelines, product manuals, and installation and use recommendations:

<https://machiii.com/resources/how-our-products-work>

For information about how to order, return policy and warranty information:

<https://machiii.com/resources/how-to-order>



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