

ATB Series AT Brake

Replaceable Armature Faces Assure Minimum Downtime

Rugged, two piece replaceable steel wear surface and precision cast iron components. Superior wear life, torque capacity and magnetic characteristics.

Two piece molded friction disc replaceable without disassembly of unit in most applications. Long life, low noise.

Sealed heavy duty bearing with high temperature lubricant maintain tight concentricities and running efficiency.

Sealed, high temperature coil with tough teflon lead wires for easy power hookup. UL recognized.

Rugged spline drive

Autogaps™ automatically adjust for wear. Consistent engagement times and repeatability for the life of the unit.

Shaft mounted with torque arm restraint.

ATB Brakes are completely assembled at the factory and have been specifically designed to match the torque ratings of standard motors, reducers, and other power transmission components. They feature a replaceable friction face, which has been designed to provide superior wear life with reduced engagement noise level wear and consistent torque capacity. Wear surfaces can, in many cases, be replaced without removing the unit from the shaft.

Selection

1. Determine Model Size

Determine the motor horsepower and shaft speed (in RPM) at the brake location.

The correct size unit is shown at the intersection of HP and shaft speed in the chart below.

2. Determine Bore Size

Select bore size and determine part number for correct size brake from parts lists starting on this page.

3. Select Options

Refer to the Standard Sheaves and Pulley chart to choose an optional Warner Electric standard pulley or obtain information for fitting other pulleys or sprockets.

4. Select Control

A simple, built-in AC to DC control is optional for 90 volt AT Brakes.

Complete control information is found in the Controls Section starting on page CTL-1. Selection is by required function.

Ordering Information

Part Numbers

Model Size	Bore Size	Voltage DC	Part No.	
ATB-25	1/2"	6	5191-170-002	
		24	5191-170-010	
		90	5191-170-003	
	5/8"	6	5191-170-004	
		24	5191-170-011	
		90	5191-170-005	
		6	5191-170-006	
		24	5191-170-012	
		90	5191-170-007	
ATB-55	3/4"	6	5191-170-008	
		24	5191-170-013	
		90	5191-170-009	
	7/8"	6	5192-170-002	
		24	5192-170-010	
		90	5192-170-003	
		6	5192-170-004	
		24	5192-170-011	
		90	5192-170-005	
ATB-115	1"	6	5192-170-006	
		24	5192-170-012	
		90	5192-170-007	
	1-1/8"	6	5192-170-008	
		24	5192-170-013	
		90	5192-170-009	
		1-1/4"	6	5193-170-002
			24	5193-170-010
			90	5193-170-003
1-1/2"	6	5193-170-004		
	24	5193-170-011		
	90	5193-170-005		
	1-3/8"	6	5193-170-006	
		24	5193-170-012	
		90	5193-170-007	
1-1/2"	6	5193-170-008		
	24	5193-170-013		
		90	5193-170-009	

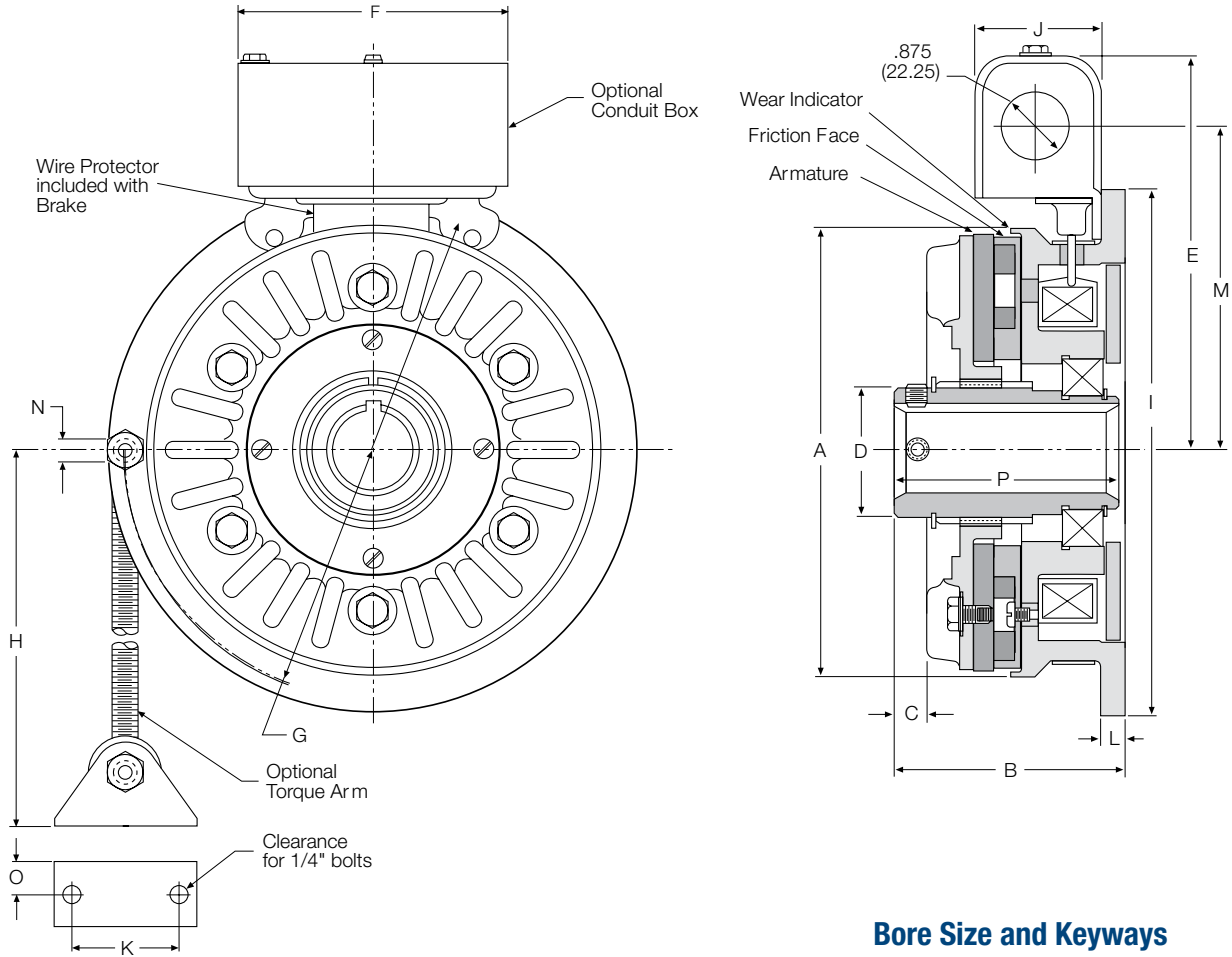
Horsepower vs. Shaft Speed

HP	SHAFT SPEED (IN RPM)																		
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	
1/4																			
1/2																			
3/4																			
1											AT-25								
1-1/2																			
2																			
3																			
5												AT-55							
7-1/2																			
10												AT-115							
15																			
20																			
25																			
30																			
35																			

*For applications with speeds below 100RPM, please contact Warner Electric Application Support.

ATB Series AT Brake

ATB-25, ATB-55, ATB-115



Dimensions

All dimensions are nominal, unless otherwise noted.

Model	A	B	C	D	E	F	G	H
	Max. Dia.	Max.	Min. Dia.	Max.	Nom.	Max.	Nom.	Max.
25	4.822	2.843	.354	1.345	4.748	3.767	2.406	9.03
	(122.48)	(72.21)	(8.99)	(34.16)	(120.60)	(95.68)	(61.11)	(229.36)
55	6.271	3.224	.281	1.756	5.37	3.767	3.00	11.19
	(159.28)	(91.89)	(7.14)	(44.83)	(136.40)	(95.68)	(76.20)	(284.23)
115	7.906	4.115	.687	2.150	6.278	3.767	3.781	11.19
	(200.81)	(104.52)	(17.45)	(54.61)	(159.46)	(95.68)	(96.04)	(284.23)

Model	I	J	K	L	M	N	O	P
	Max. Dia.	Nom.	Min. Nom.	Max.	Nom.	Min.	Nom.	Max.
25	5.760	1.544	1.500	.195	3.586	.280	.312	2.765
	(146.30)	(39.22)	(38.10)	(4.95)	(91.08)	(7.11)	(7.92)	(70.23)
55	7.375	1.544	1.50	.491	4.208	.375	.375	3.105
	(187.33)	(39.22)	(38.10)	(12.47)	(106.88)	(9.53)	(9.53)	(78.87)
115	9.00	1.544	1.50	.463	5.116	.375	.375	3.955
	(228.60)	(39.22)	(38.10)	(11.76)	(129.95)	(9.53)	(9.53)	(100.46)

Bore Size and Keyways

Size	Unit Bore		Key
	(in.)	(mm)	
ATB-25	.5025	12.76	1/8 Sq.
	.5005	12.71	
	.6275	15.94	3/16 Sq.
ATB-25	.6255	15.89	3/16 Sq.
	.7525	19.11	
ATB-55	.7505	19.06	3/16 Sq.
ATB-25	.8775	22.29	3/16 Sq.
	.8755	22.24	
ATB-55	1.0025	25.46	1/4 Sq.
ATB-55	1.0005	25.41	1/4 Sq.
	1.1275	28.64	
ATB-115	1.1255	28.59	1/4 Sq.
	1.2525	31.81	
ATB-115	1.2505	31.76	1/4 Sq.
	1.3775	34.99	
	1.3755	34.94	5/16 Sq.
ATB-115	1.5025	38.16	3/8 Sq.
	1.5005	38.11	

Specifications

Model Size	Voltage DC	Static Torque lb. ft.	Max. RPM	Weight lbs.	Inertia-WR ² lb.-ft. ²	Dynamic Torque @ 1800 RPM
25	6, 24 or 90	25	3600	7	.038	12 lb. ft.
55	6, 24 or 90	55	3600	15	.126	20 lb. ft.
115	6, 24 or 90	115	3600	24	.383	30 lb. ft.