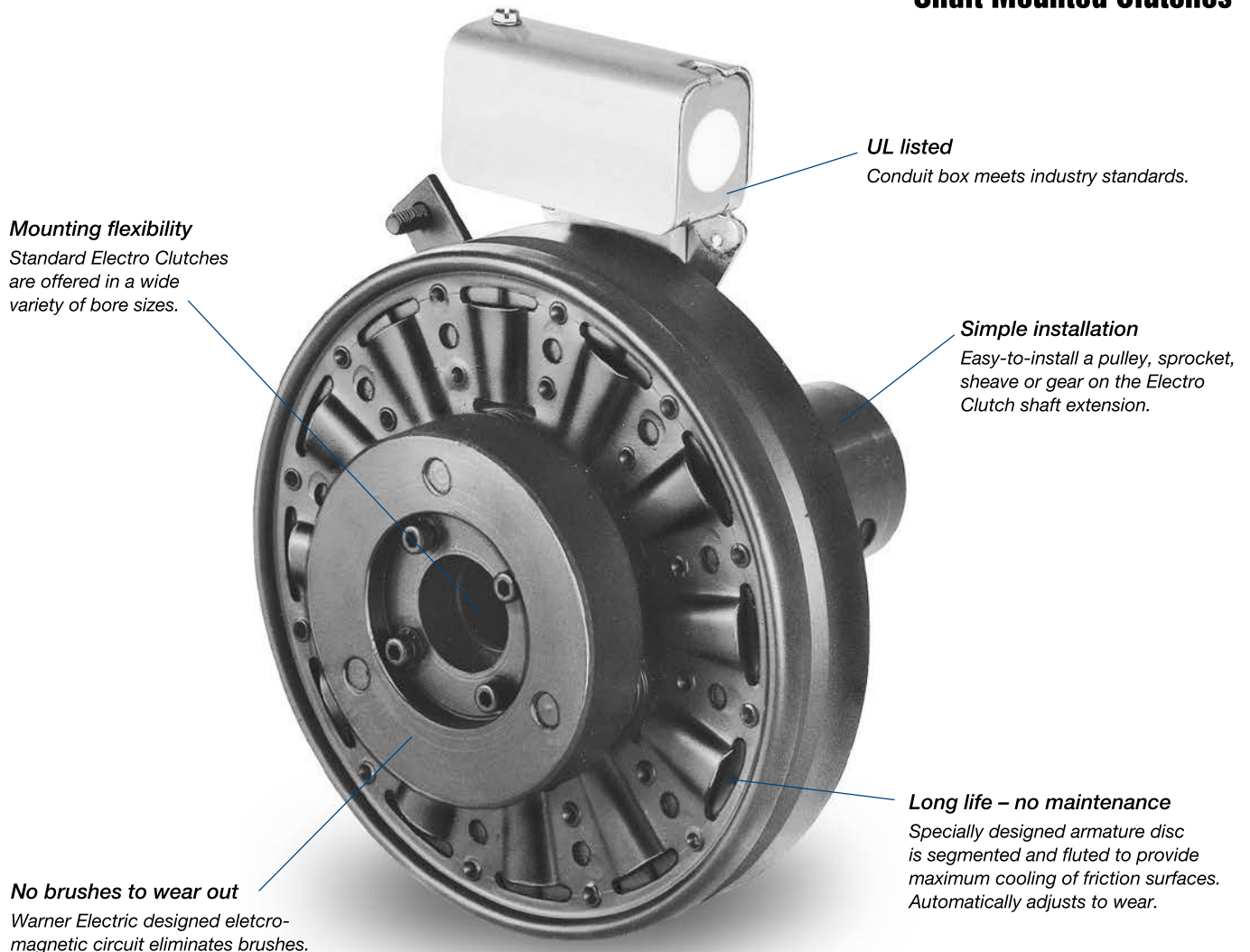


EC Series Electro Clutch

Shaft Mounted Clutches



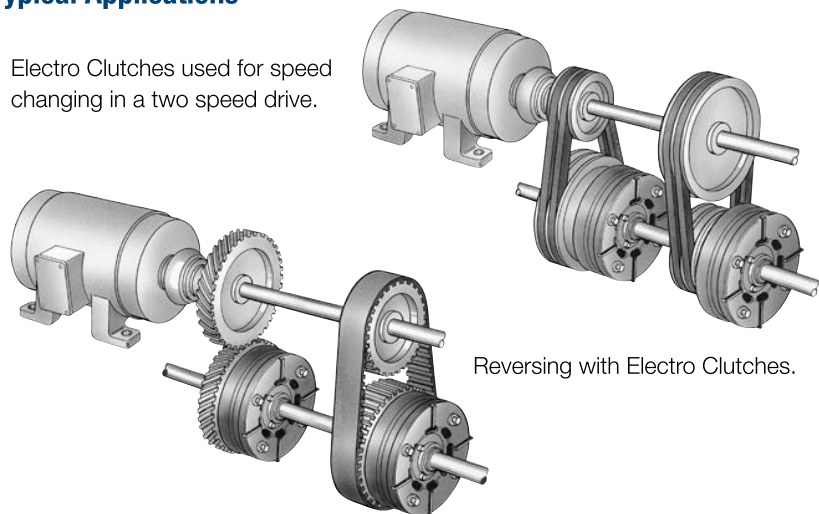
Packaged Performance

The engineering is built-in. Warner Electric Packaged Performance products are factory aligned and pre-assembled. They have been designed to mate easily with industry standard motors, reducers and other power transmission components. "Bolt-it-down and wire-it-up". . . they're ready to go.

- Hubs mate to standard sheaves, sprockets, gears and pulleys
- Wide torque range from 16 to 465 lb. ft.
- Handle 1 to 20 HP at 1800 RPM

Typical Applications

Electro Clutches used for speed changing in a two speed drive.



EC Series Electro Clutch

Selection/Ordering Information

Selection Procedure

1. Determine the motor horsepower and r.p.m. at the clutch location.
 2. Use the Horsepower vs. Shaft Speed chart to determine the right size Electro Clutch.
 3. When ordering, specify bore size and voltage.
 4. To get maximum performance from your Electro Clutch, use a Warner Electric Control. See the Controls Section starting on page CTL-1.
- Note:**
Electro Clutches require extended length motor shafts for motor mounting.

Horsepower vs. Shaft Speed

HP	SHAFT SPEED AT CLUTCH (IN RPM)																					
▼	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	4000	4500	5000	
1/50																						
1/20																						
1/12																						
1/8										EC-375												
1/6																						
1/4																						
1/2																						
3/4																						
1										EC-475												
1-1/2																						
2										EC-650												
3																						
5										EC-825												
7-1/2																						
10										EC-1000												
15																						
20										EC-1225												

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

Specifications

Electro Clutch Size	Static Torque lb. ft.	Max. RPM	Voltage DC	Total Wt. lbs.
EC-375	16	5000	6, 24 or 90	4
EC-475	30	4500	6, 24 or 90	8
EC-650	95	3600	6, 24 or 90	18
EC-825	125	3600	6, 24 or 90	28
EC-1000	240	2000	6, 24 or 90	41
EC-1225	465	2000	6, 24 or 90	85

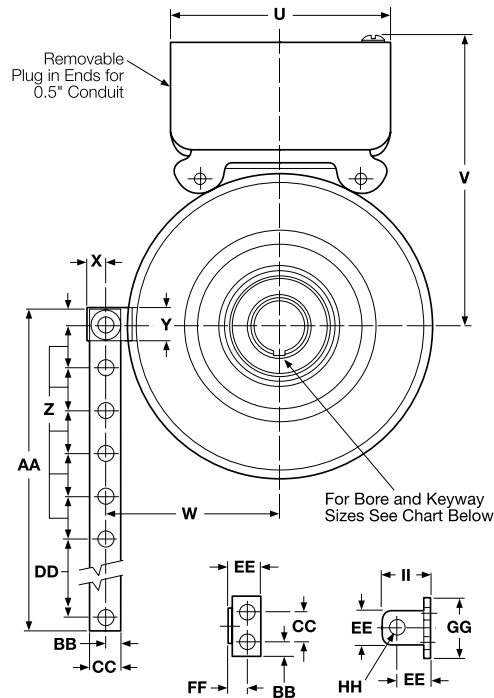
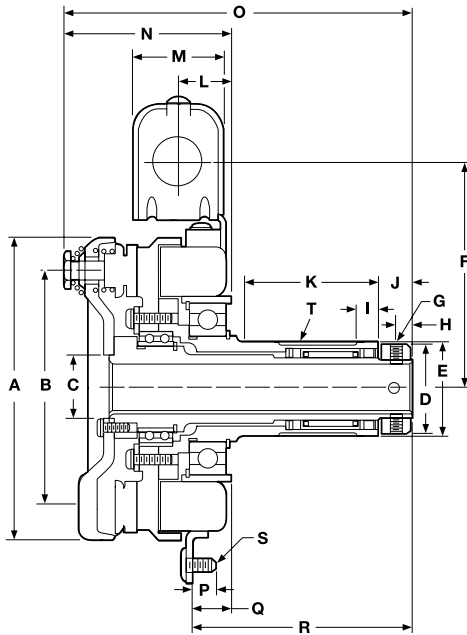
Part Numbers

Model Size	Bore Size	Voltage DC	Part No.
EC-375	1/2"	6	5180-271-006
		24	5180-271-004
		90	5180-271-009
	5/8"	6	5180-271-002
		24	5180-271-008
		90	5180-271-005
EC-475	5/8"	6	5181-271-033
		24	5181-271-037
		90	5181-271-036
	3/4"	6	5181-271-032
		24	5181-271-038
		90	5181-271-034
EC-650	7/8"	6	5181-271-031
		24	5181-271-039
		90	5181-271-035
	1"	6	5281-271-004
		24	5281-271-018
		90	5281-271-007
EC-825	1-1/8"	6	5281-271-002
		24	5281-271-019
		90	5281-271-005
	1-1/4"	6	5281-271-009
		24	5281-271-020
		90	5281-271-008
EC-1000	1-3/8"	6	5281-271-003
		24	5281-271-016
		90	5281-271-006
	1-1/2"	6	5282-271-002
		24	5282-271-008
		90	5282-271-011
EC-1225	1-3/4"	6	5282-271-003
		24	5282-271-009
		90	5282-271-012
	1-5/8"	6	5282-271-004
		24	5282-271-010
		90	5282-271-013

Note: Metric bores available in some sizes, consult factory.

EC Series Electro Clutch

EC-375, EC-475, EC-650



Bore Sizes and Keyways

Size	Bore Dia.	Keyway
375	.625	*3/16 x 1/16
	.500	1/8 x 1/16
475	.750	3/16 x 3/32
	.875	*3/16 x 1/16
	.625	3/16 x 3/32
650	1.125	*1/4 x 1/8
	1.375	*5/16 x 3/32
	1.000	1/4 x 1/8
	1.250	1/4 x 1/8

*Key Furnished

Dimensions

All dimensions are nominal, unless otherwise noted.

Size	A Max.	B Dia.	C Min.	D Dia.	E Dia.	F	G	H	I	J	K Max.	L	M
375	4.078	3.125	.7505	1.313	<u>1.375</u> 1.374	3.344	10-24 UNC-3A x 5/15	.188	.375	.344	2.047	.781	1.547
475	5.172	4.000	1.0625	1.563	<u>1.625</u> 1.624	3.922	1/4-20 UNC-3A x 7/16	.281	.375	.578	2.359	.875	1.547
650	6.578	5.125	1.625	2.375	<u>2.5000</u> 2.4985	4.625	1/4-20 UNC-3A x 1/2	.281	.188	.563	3.047	.953	1.547

Size	N Max.	O Max.	P	Q Max.	R Min.	S	T	U	V Max.	W	X
375	2.484	4.984	.438	.609	3.000	1/4-20 UNC-2A	5/16 x 3/32	3.750	4.438	2.438	.313
475	3.219	6.266	.422	.658	3.641	1/4-20 UNC-2A	3/8 x 3/32	3.750	4.984	2.984	.313
650	3.547	7.141	.422	.722	4.359	1/4-20 UNC-2A	5/8 x 3/32	3.750	5.750	3.750	.313

Size	Y	Z	AA	BB	CC	DD	EE Dia.	FF	GG	HH Dia.	II
375	.563	.750	5.000	.250	.500	.750	.563	.313	1.000	<u>.270</u> .260	.828
475	.578	.750	5.000	.250	.500	.750	.563	.313	1.000	<u>.270</u> .260	.828
650	.563	.750	10.000	.250	.500	5.750	.563	.313	1.000	<u>.270</u> .260	.828

Specifications

Size	Average Wt.-lbs.				Inertia-WR ² (lb.ft. ²)			
	Arm. & Carrier.	Rotor	Outer Sleeve	Inner Sleeve	Arm. & Carrier	Rotor	Outer Sleeve	Inner Sleeve
EC-375	.60	.55	.49	.60	.010	.018	.001	.001
EC-475	1.13	1.12	.78	1.22	.072	.033	.006	.002
EC-650	2.3	2.5	1.6	2.37	.106	.202	.010	.013