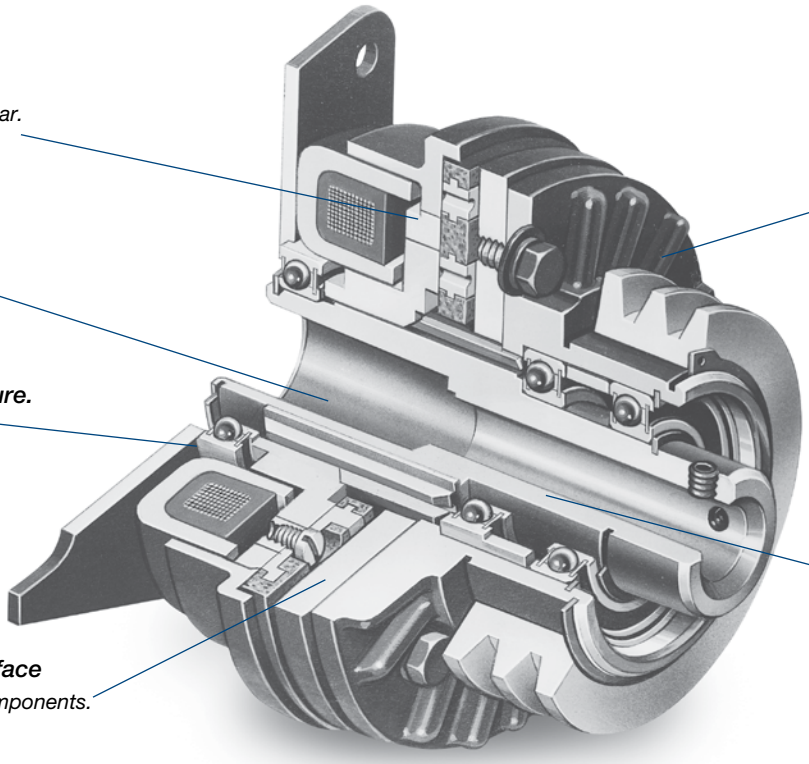
Rugged and Durable Operation



Mounting Flexibility

The ATC clutch design represents the best combination of features to allow mounting of the widest range of pulleys, sheaves or sprockets with keys and snap rings or bolts for maximum durability. The pulleys or sheaves selected as standard offerings to support the line are matched to the torque capability of each clutch. The torques and wear lives have been designed to match industry-standard motors and reducers by shaft size and bore size.

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											AT-115							
10																		
15																		
20																		
25																		
30																		
35																		

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

Selection

1. Determine Model Size
Determine the motor horsepower and shaft speed (in R.P.M.) at the clutch location.

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

2. Determine Bore Size
Select bore size and determine part number for correct size clutch from parts lists starting on page A-20.

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 pulley or sprocket.

4. Select Control
A simple, built-in AC to DC control is optional for 90 volt AT Clutches.

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

ATC AT Clutch

Selection/Ordering Information

Optional Equipment

Standard Sheaves and Pulleys

Sheave Pulley Type	Clutch or Brake Size	No. Grooves No. Teeth	Part Number	Pitch Diameter	Width	Dimensions O.D.
Timing Belt	25	26H100	689-0256	4.138”	1.312”	4.244”
	55	30H100	689-0278	4.755”	1.312”	4.881”
	115	40H150	689-0257	6.366”	1.812”	6.472”
“A” Section	25	1G3.60	689-0267	3.600”	.750”	3.850”
	55	2G4.80	689-0308	4.800”	1.445”	5.050”
	115	3G6.00	689-0271	6.000”	2.000”	6.250”
“3V” Section	25	1G3.65	689-0259	3.600”	.695”	3.650”
	55	2G4.12	689-0315	4.070”	1.094”	4.120”
	115	3G5.30	689-0263	5.250”	1.515”	5.300”
“B” Section	115	2G6.00	689-0275	6.000”	1.750”	6.350”

Other Sheaves, Pulleys and Sprockets

The unique AT Clutch design permits the installation of any customer provided sheave, pulley or sprocket that can be bored out and key seated to the Bore-to-Size dimensions shown on page A-22.

Sprockets

The AT clutch design permits installation of customer supplied sprockets. Minimum size sprocket requirements found in the chart below can be bored out and drilled to the dimensions in that chart.

Minimum Size Sprockets for Pilot Mount

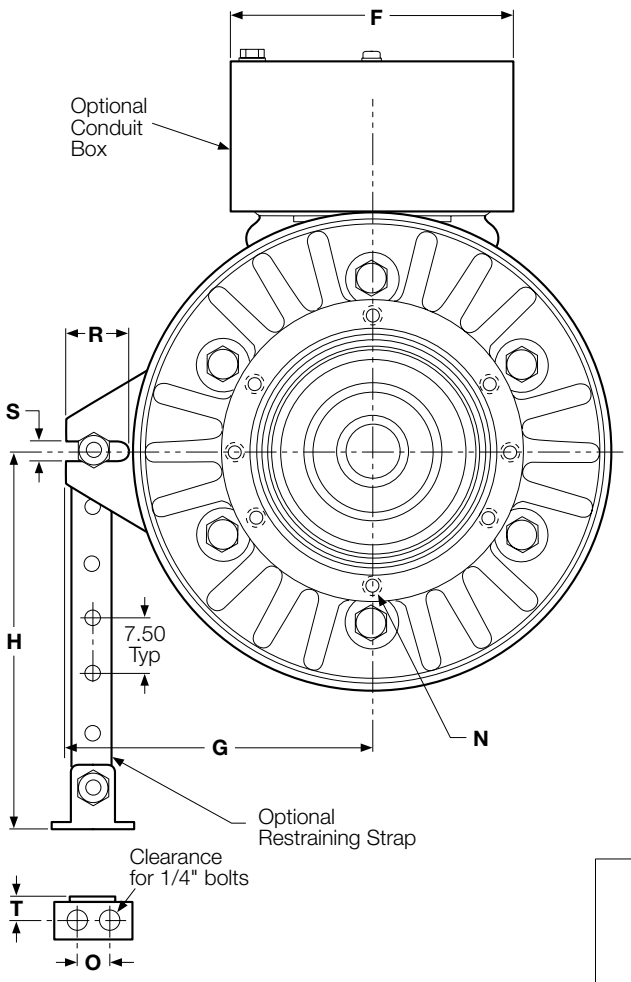
	Clutch Size		
Chain Size	25	55	115
25	54T	—	—
35	35T	40T	—
41/40	28T	30T	40T
50	22T	24T	30T
60	—	20T	24T
80	—	—	20T
100	—	—	—
120	—	—	—
Bore size	2.500/2.502/ (63.500/63.551)	3.000/3.002/ (76.200/76.251)	4.00/4.002/ (101.600/101.651)
Bolt Circle	3.000/(76.200)	3.500/(88.900)	4.750/(120.650)
No. Holes and Sizes	(3) .281/[(3) 7.144]	(4) .281/[(4) 7.144]	(4) .344/[(4) 8.731]

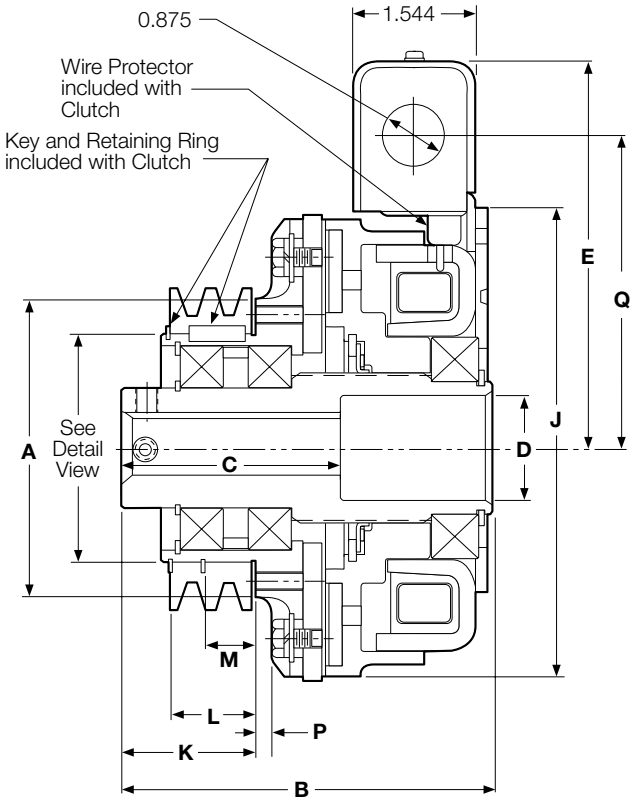
Note: Spacer may be required to avoid chain interference with clutch.

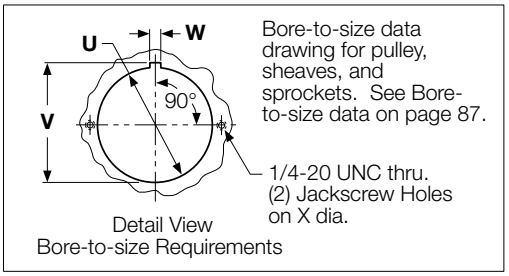
Part Numbers

Model Size	Bore Size	Voltage DC	Part No.
ATC-25	1/2”	6	5161-271-002
		24	5161-271-010
		90	5161-271-003
	5/8”	6	5161-271-004
		24	5161-271-011
		90	5161-271-005
	3/4”	6	5161-271-006
		24	5161-271-012
		90	5161-271-007
	7/8”	6	5161-271-008
		24	5161-271-013
		90	5161-271-009
ATC-55	3/4”	6	5162-271-002
		24	5162-271-010
		90	5162-271-003
	7/8”	6	5162-271-004
		24	5162-271-011
		90	5162-271-005
	1”	6	5162-271-006
		24	5162-271-012
		90	5162-271-007
	1-1/8”	6	5162-271-008
		24	5162-271-013
		90	5162-271-009
ATC-115	1-1/8”	6	5163-271-002
		24	5163-271-010
		90	5163-271-003
	1-1/4”	6	5163-271-004
		24	5163-271-011
		90	5163-271-005
	1-3/8”	6	5163-271-006
		24	5163-271-012
		90	5163-271-007
	1-1/2”	6	5163-271-008
		24	5163-271-013
		90	5163-271-009

ATC-25, ATC-55, ATC-115







Specifications

Model Size	Voltage DC	Unit	Inertia*-WR² (lb.ft.²)	Max. RPM	Weight (lbs.)	Static Torque (lb.ft.)	Dynamic Torque @ 1800 RPM
25	6	Clutch	.048	3600	8	25	12 lb. ft.
	24		.048	3600	8	25	12 lb. ft.
	90		.048	3600	8	25	12 lb. ft.
55	6	Clutch	.173	3600	18	55	20 lb. ft.
	24		.173	3600	18	55	20 lb. ft.
	90		.173	3600	18	55	20 lb. ft.
115	6	Clutch	.483	3600	28	115	30 lb. ft.
	24		.483	3600	28	115	30 lb. ft.
	90		.483	3600	28	115	30 lb. ft.

ATC Series AT Clutch

ATC-25, ATC-55, ATC115

Dimensions

All dimensions are nominal, unless otherwise noted.

Model	A Max. Dia.	B Max.	C Nom.	D Nom Dia.	E Max.	F Max.	G Max.	H Max.	J Max. Dia.	K Max.	L Nom.	M Max.	T Nom.
25	3.60 (91.44)	4.39 (111.51)	2.375 (60.33)	1.080 (27.43)	4.748 (120.60)	3.767 (95.68)	3.282 (83.36)	5.11 (129.79)	4.822 (122.49)	1.68 (42.67)	1.003/.991 (25.48/25.17)	.715/.703 (18.16/17.86)	.375 (9.53)
55	3.95 (100.33)	4.935 (125.35)	2.925 (74.30)	1.40 (35.56)	5.182 (131.62)	3.767 (95.682)	4.032 (102.412)	5.11 (129.792)	6.275 (159.39)	1.817 (46.152)	1.113/1.101 (28.27/27.97)	–	.375 (9.53)
115	5.254 (133.452)	5.977 (151.822)	3.102 (78.792)	1.86 (47.242)	6.089 (154.662)	3.767 (95.682)	4.246 (107.852)	10.11 (256.792)	7.906 (200.812)	2.467 (62.662)	1.539/1.523 (39.09/38.68)	–	.375 (9.53)

Model	No. of Holes	N Thread Size	Max. Depth	Bolt Circle	O Nom.	P Nom.	Q Nom.	R Min.	S Min.
25	3	1/4-20	.500	3.00	.500 (12.7)	.036 (0.91)	3.586 (91.10)	.752 (19.08)	.279 (7.09)
55	4	1/4-20	.635	3.50	.500 (12.7)	.081 (2.06)	4.156 (105.56)	.722 (18.34)	.265 (6.73)
115	4	5/16-18	.830	4.75	.500 (12.7)	.237 (6.02)	4.927 (125.15)	.504 (12.80)	.265 (6.73)

Bore to Size Data

Model	U Bore Dia.	V Keyway Height	W Keyway Width	X Bolt Circle
25	2.502/2.500 (63.55/63.50)	2.601/2.591 (66.06/65.81)	.1905/.1855 (4.84/4.79)	3.00 (76.20)
55	3.002/3.000 (76.25/76.20)	3.099/3.089 (78.71/78.46)	.1905/.1885 (4.84/4.79)	3.50 (88.90)
115	4.002/4.000 (101.65/101.60)	4.127/4.117 (104.83/104.57)	.378/.376 (9.60.9.55)	4.50 (114.30)

Bore Size and Keyways

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