# CTS Clutch – Thru Shaft

Standard DC Clutch

Tor-ac Clutch

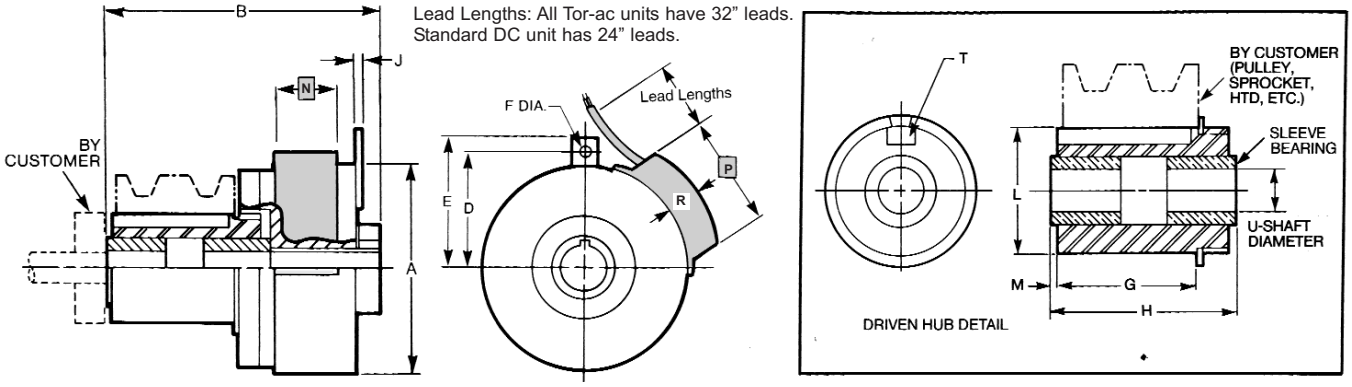
- CSA certified.
- Ball-bearing mounted stationary field for long trouble-free operation.
- Sleeve bearing in driven hub supports customer-supplied pulley, gear, or sprocket.
- Spline drive for long life under heavy loads.
- Available with spring release.
- Zinc plated magnet body for corrosion resistance.
- Epoxy encapsulated coil construction for uniform heat transfer and moisture resistance.
- Class H magnet wire and potting material.

*Refer to Installation and Service Instructions Sheet 8-078-862-00.*

## Dimensional Data (In Inches)

| Size | A | B | D | E | F | G | H | J | L | M | N | P | R | T | U (through bore) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 2.67 | 3.32 | 1.56 | 1.75 | .13 | 1.44 | 1.93 | .06 | 1.374 / 1.375 | .06 | – | – | – | 5/16 x 5/32 | 3/8, 1/2 |
| 3.5 | 3.19 | 3.39 | 1.81 | 2.00 | .19 | 1.50 | 1.95 | .06 | 1.374 / 1.375 | .06 | 1.00 | 2.74 | .80 | 5/16 x 5/32 | 3/8, 1/2, 5/8 |
| 5 | 4.31 | 3.91 | 2.50 | 2.84 | .19 | 1.50 | 2.14 | .09 | 1.374 / 1.375 | .06 | 1.00 | 2.81 | .69 | 5/16 x 5/32 | 1/2, 5/8, 3/4, |

***IMPORTANT NOTE:*** *Information and dimensioning relating to Tor-ac units shown in shaded area.*




*Dimensions are for estimating only and subject to change without notice. For installation purposes, request certified prints.*

## Performance/List Price Data

| Catalog Number | Size | Type | Basic Model Number | Nominal Static Torque (lb-in) | Nominal Dynamic Torque at 1800 RPM (lb-in) | Max. RPM② | Inertia | | Thermal Capacity (ft-lb/min)① | Approx. Weight (lbs) | Max Power (watts) | List Price ③ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Driven Side (lb-ft²) | Drive Side (lb-ft²) | | | | |
| CTS-30 | 3 | standard | 2-11-2502-05 | 60 | 40 | 7000 | $2.4 \times 10^{-3}$ | $1.67 \times 10^{-3}$ | 1650 | 2.5 | 9 | $952.00 |
| CTS-30S | | spring rel. | 2-11-2502-09 | | | | | | | | | |
| CTS-35 | 3.5 | standard | 2-11-3141-06 | 100 | 65 | 5000 | $4.7 \times 10^{-3}$ | $2.96 \times 10^{-3}$ | 2750 | 3.5 | 11 | 1200.00 |
| CTS-35S | | spring rel. | 2-11-3141-07 | | | | | | | | | |
| CTS-35T | 3.5 | standard | 2-11-3190-00 | 100 | 65 | 5000 | $4.7 \times 10^{-3}$ | $2.96 \times 10^{-3}$ | 2750 | 3.5 | 11 | 1384.00 |
| CTS-35ST | | spring rel. | 2-11-3190-01 | | | | | | | | | |
| CTS-50 | 5 | standard | 2-11-4267-00 | 275 | 160 | 5000 | $5.7 \times 10^{-3}$ | $1.47 \times 10^{-2}$ | 4400 | 5.4 | 14 | 1368.00 |
| CTS-50S | | spring rel. | 2-11-4267-01 | | | | | | | | | |
| CTS-50T | 5 | standard | 2-11-4290-00 | 275 | 160 | 5000 | $5.7 \times 10^{-3}$ | $1.47 \times 10^{-2}$ | 4400 | 5.4 | 14 | 1552.00 |
| CTS-50ST | | spring rel. | 2-11-4290-01 | | | | | | | | | |

①Thermal capacity rating is based on ambient temperature of 70°F at 1750 RPM.
②RPM value stated is for ball bearing mount magnet body. See ASTM B 438 for further information on copper based sleeve bearings used in the driven hubs.
③List prices subject to change without notice.

## Ordering Information

*Example of a complete part number:*
2-11-2502-05-H J G— 3/8 bore
90-100 Vdc
5/8 bore 3/16 x 3/32 keyway

**Bore and Keyway Table***

| Character | D | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|
| Bore/Shaft Dia. (in.) | 1/4 | 5/16 | 3/8 | 3/8 | 1/2 | 1/2 | 5/8 | 5/8 | 3/4 | 3/4 |
| Keyway (inches) | 1/16 ξ 1/32 | 1/16 ξ 1/32 | none | 3/32 ξ 3/64 | none | 1/8 ξ 1/16 | none | 3/16 ξ 3/32 | none | 3/16 ξ 3/32 |

*Special or metric bores available, consult factory.

**Voltage Table**

| Character | Voltage |
|---|---|
| C | 12 Vdc |
| E | 24-28 Vdc |
| J | 90-100 Vdc |
| N* | 115 **Vac*** |

*Includes rectifier.
Not available on size 3.