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Clutches & Brakes

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DELTRAN

START

CS/CSC Series

Shaft-Mounted Clutches and Clutch Couplings

Electromagnetic clutches provide an efficient, electrically switchable link between a motor and a load. Clutches are used to couple two parallel shafts by the use of pulleys, gears or sheaves. While the field (electromagnet) assembly is prevented from rotating by an anti-rotation tab or flange, the rotor and armature assembly are mounted on a single shaft, with the rotor secured to the shaft. The armature is bearing mounted and free to rotate. When the coil is energized, the armature engages the friction surface of the rotor, thus driving the load.

Electromagnetic clutch couplings provide this same efficient, electrically switchable link between a motor and a load for inline shafts. While the field (electromagnet) assembly is prevented from rotating by an anti-rotation tab, the rotor and armature assembly are securely mounted on opposing inline shafts. When the coil is energized, the armature engages the friction surface of the rotor, coupling the two inline shafts, thus driving the load.

- Torque: 2.5 to 80 lbs.-in. (0.28 to 9.04 Nm)
- Diameters: 1.25 to 2.26 in. (31.8 to 66.8 mm)
- Efficient means of cycling load
- Fast response, repeatable performance
- Static or dynamic engagement
- Simple installation
- Economic cost
- Energy efficient



How to Order

CS – 11 B 24* – E04 – E04

Series
- **CS** = Shaft Mounted Clutch
- **CSC** = Shaft Mounted Clutch Coupling

Frame Size
- **11** = 1.25 (31.8)
- **15** = 1.53 (38.9)
- **17** = 1.78 (45.2)
- **22** = 2.26 (57.4)
- **26** = 2.63 (66.8)

B = Burnished
U = Unburnished

Coil Voltage
- **12** = 12VDC
- **24** = **24VDC**
- **90** = **90VDC**

Rotor Bore / **Armature Bore**

English		Metric	
E03	= .1875	**M06**	= 6mm
E04	= .2500	**M08**	= 8mm
E05	= .3125	**M10**	= 10mm
E06	= .3750	**M12**	= 12mm
E08	= .5000	**M20**	= 20mm
E10	= .6250	**M25**	= 25mm

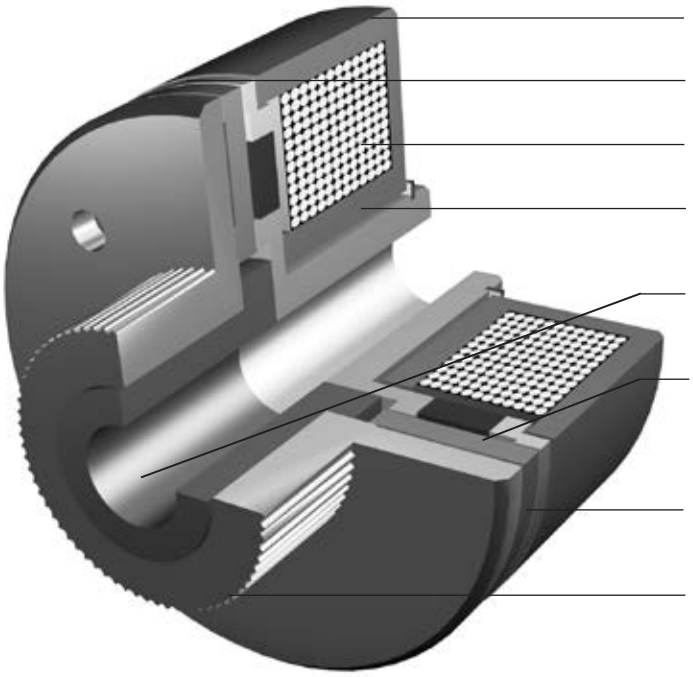
* Other voltages available upon request

General Notes

- The air gap should be checked periodically to ensure proper operation. If it exceeds maximum recommended dimensions, the clutch or brake may not function properly.
- All friction faces must be kept free of grease and oil for proper operation.
- Consult factory for additional options.
- Actual starting and/or stopping times depend on application variables, manufacturing tolerances and friction material wear. Please consult factory for evaluation of actual use before applying specific values to your application.
- Flying leads are provided as standard, terminal style connection available upon request.
- Armature and rotor bore dimensions are minimums, with tolerance generally .001/.002 larger to accommodate varying environmental conditions.
- Coil of 24 & 90 volts are provided as standard, other coil voltages are available upon request.

START

Clutches and Clutch Couplings



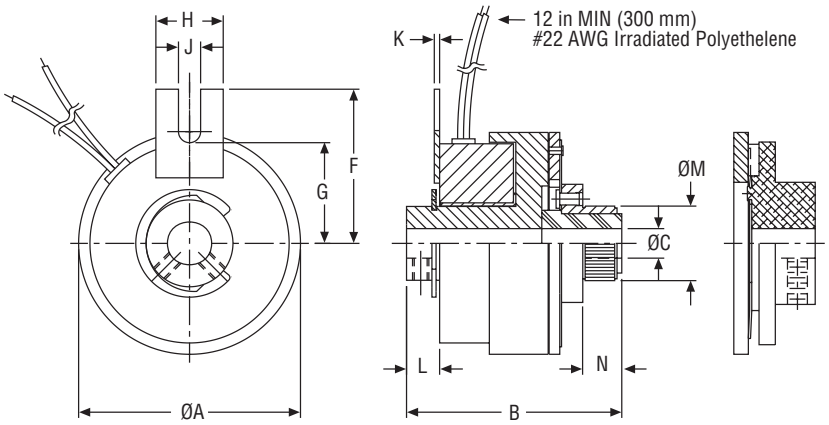
Typical Applications

- Document handling
- Copiers
- Printers
- Collators
- Sorters
- Finishers
- ATM machines
- Currency counters
- Vending machines
- Postal handling equipment
- Ticket & receipt dispensing
- Packaging
- Material handling
- Office automation

START

CS-11 Clutches & CSC-11 Clutch Couplings

Dimensions & Specifications



Dimensions (mm)
Mounting requirements see page 128.

CS Model

CSC Model



CS Model Shown

DIMENSIONS											
Model*	Static Torque lbs.-in. (Nm)	A: OD in. (mm)	B: OAL in. (mm)	C: Bore Ø in. (mm)	F: Tab Height in. (mm)	G: Slot Height in. (mm)	H: Tab Width in. (mm)	J: Slot Width in. (mm)	K: Tab Thickness in. (mm)	L: Length in. (mm)	M: Mtg Ø x N: Length in. (mm)
CS-11B24-E04-E04	5.0 (0.56)	1.25 (31.8)	1.38 (35.1)	.250 (6.4)	0.87 (22.1)	0.56 (14.2)	0.38 (9.7)	0.13 (3.3)	0.03 (0.8)	0.22 (5.6)	.507 x 0.33 (12.9 x 8.4)
CS-11B24-E05-E05	5.0 (0.56)	1.25 (31.8)	1.38 (35.1)	.312 (7.9)	0.87 (22.1)	0.56 (14.2)	0.38 (9.7)	0.13 (3.3)	0.03 (0.8)	0.22 (5.6)	.507 x 0.33 (12.9 x 8.4)
CSC-11B24-E04-E04	5.0 (0.56)	1.25 (31.8)	1.28 (32.5)	.250 (6.4)	0.87 (22.1)	0.56 (14.2)	0.38 (9.7)	0.13 (3.3)	0.03 (0.8)	0.22 (5.6)	NA
CSC-11B24-E05-E05	5.0 (0.56)	1.25 (31.8)	1.28 (32.5)	.312 (7.9)	0.87 (22.1)	0.56 (14.2)	0.38 (9.7)	0.13 (3.3)	0.03 (0.8)	0.22 (5.6)	NA

PERFORMANCE										
Model	Static Torque lbs.-in. (Nm)	Coil Voltage VDC	Resistance Ohms nom	Power Watts max	Armature Engage. msec	Armature Disengage. msec	Armature Inertia lbs.-in.-sec^2	Rotor Inertia lbs.-in.-sec^2	Weight lbs. (kg)	Energy Dissipation ft.-lbs./min
CS-11	5.0 (0.56)	24/90	128/1800	5.0	5.0	18.0	3.5×10^{-5}	2.6×10^{-5}	0.2 (0.1)	175
CSC-11	5.0 (0.56)	24/90	128/1800	5.0	5.0	18.0	3.4×10^{-5}	2.6×10^{-5}	0.2 (0.1)	175

*See "How to order" model numbering system on page 90 for clutches & clutch couplings.
(-) denotes metric equivalents. Specifications subject to change without notice.

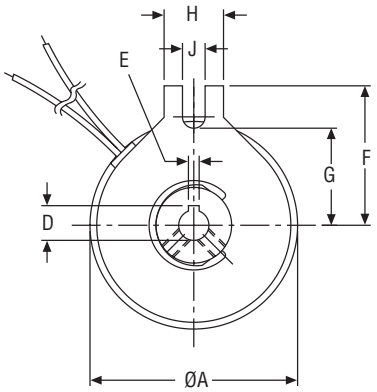
General Notes

- Customer shall maintain concentricity between armature assembly and rotor shaft within .003 T.I.R.
- Customer shall maintain a loose pin fit through the anti-rotation tab to prevent pre-loading of bearings.
- Other voltages available upon request.
- Initial working air gap at installation shall be .004/.009.
- Customer supplied gear/pulley/sprocket is press-fit on the clutch armature assembly knurl.
- Rotor is secured to shaft by set screw or roll pin.
- Clutch coupling armature assembly is secured to shaft by set screws and key.
- Metric bores available
- Static torque values above are burnished

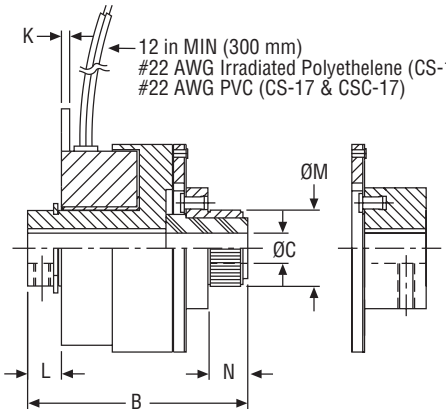
START

CS-15, 17 Clutches & CSC-15, 17 Clutch Couplings

Dimensions & Specifications



Dimensions (mm)



CS Model

CSC Model



CS Model Shown

Mounting requirements see page 128.

DIMENSIONS													
Model*	Static Torque in. (mm)	A: OD in. (mm)	B: OAL in. (mm)	C: Bore Ø in. (mm)	D: K'way Height in. (mm)	E: K'way Width in. (mm)	F: Tab Height in. (mm)	G: Slot Height in. (mm)	H: Tab Width in. (mm)	J: Slot Width in. (mm)	K: Tab Thick. in. (mm)	L:Lngth in. (mm)	M: Mtg Ø x N: Lg in. (mm)
CS-15B24-E04-E04	10 (1.13)	1.53 (38.9)	1.83 (46.5)	.250 (6.4)	.286 (7.3)	.062 (1.6)	1.10 (27.9)	0.75 (19.1)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.38 (9.7)	.631 x 0.33 (16.0 x 8.4)
CS-15B24-E05-E05	10 (1.13)	1.53 (38.9)	1.83 (46.5)	. 312 (7.9)	.364 (9.2)	.094 (2.4)	1.10 (27.9)	0.75 (19.1)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.38 (9.7)	.631 x 0.33 (16.0 x 8.4)
CS-15B24-E06-E06	10 (1.13)	1.53 (38.9)	1.83 (46.5)	. 375 (9.5)	NA	NA	1.10 (27.9)	0.75 (19.1)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.38 (9.7)	.631 x 0.33 (16.0 x 8.4)
CSC-15B24-E04-E04	10 (1.13)	1.53 (38.9)	1.68 (42.7)	. 250 (6.4)	.286 (7.3)	.062 (1.6)	1.10 (27.9)	0.75 (19.1)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.38 (9.7)	NA
CSC-15B24-E05-E05	10 (1.13)	1.53 (38.9)	1.68 (42.7)	. 312 (7.9)	.364 (9.2)	.094 (2.4)	1.10 (27.9)	0.75 (19.1)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.38 (9.7)	NA
CSC-15B24-E06-E06	10 (1.13)	1.53 (38.9)	1.68 (42.7)	. 375 (9.5)	NA	NA	1.10 (27.9)	0.75 (19.1)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.38 (9.7)	NA
CS-17B24-E04-E04	15 (1.69)	1.78 (45.2)	1.85 (47.0)	. 250 (6.4)	.286 (7.3)	.062 (1.6)	1.32 (33.5)	0.91 (23.1)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.30 (7.6)	.631 x 0.33 (16.0 x 8.4)
CS-17B24-E05-E05	15 (1.69)	1.78 (45.2)	1.85 (47.0)	.312 (7.9)	.364 (9.2)	.094 (2.4)	1.32 (33.5)	0.91 (23.1)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.30 (7.6)	.631 x 0.33 (16.0 x 8.4)
CS-17B24-E06-E06	15 (1.69)	1.78 (45.2)	1.85 (47.0)	.375 (9.5)	.425 (10.8)	.094 (2.4)	1.32 (33.5)	0.91 (23.1)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.30 (7.6)	.631 x 0.33 (16.0 x 8.4)
CSC-17B24-E04-E04	15 (1.69)	1.78 (45.2)	1.55 (39.4)	. 250 (6.4)	.286 (7.3)	.062 (1.6)	1.32 (33.5)	0.91 (23.1)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.30 (7.6)	NA
CSC-17B24-E05-E05	15 (1.69)	1.78 (45.2)	1.55 (39.4)	.312 (7.9)	.364 (9.2)	.094 (2.4)	1.32 (33.5)	0.91 (23.1)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.30 (7.6)	NA
CSC-17B24-E06-E06	15 (1.69)	1.78 (45.2)	1.55 (39.4)	.375 (9.5)	.425 (10.8)	.094 (2.4)	1.32 (33.5)	0.91 (23.1)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.30 (7.6)	NA

PERFORMANCE										
Model	Static Torque lbs.-in. (Nm)	Coil Voltage VDC	Resistance Ohms nom.	Power Watts max	Armature Engage. msec	Armature Diseng. msec	Armature Inertia lbs.-in.-sec^2	Rotor Inertia lbs.-in.-sec^2	Weight lbs. (kg)	Energy Dissipation ft.-lbs./min
CS-15	10 (1.13)	24/90	130/1800	5.0	8.0	22.0	5.9×10^{-5}	5.2×10^{-5}	0.4 (0.2)	295
CSC-15	10 (1.13)	24/90	130/1800	5.0	8.0	22.0	6.6×10^{-5}	5.2×10^{-5}	0.4 (0.2)	295
CS-17	15 (1.69)	24/90	108/1500	6.0	10.0	27.0	7.3×10^{-5}	11.4×10^{-5}	0.6 (0.3)	420
CSC-17	15 (1.69)	24/90	108/1500	6.0	10.0	27.0	8.1×10^{-5}	11.4×10^{-5}	0.6 (0.3)	420

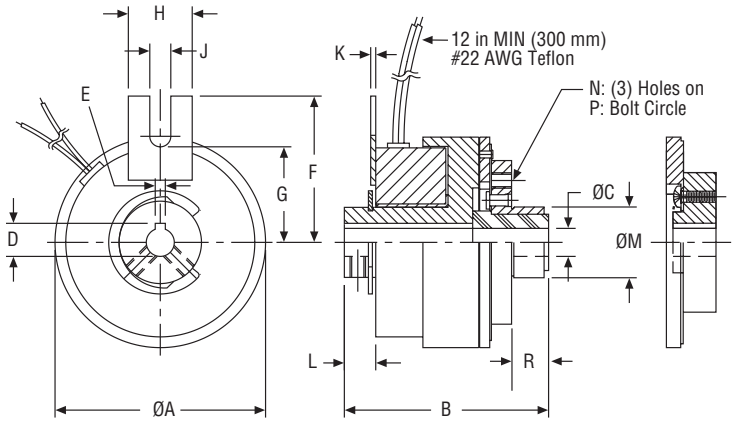
General Notes

- Initial working air gap at installation shall be .004/.009.
- Static torque values above are burnished.
- Customer shall maintain a loose pin fit through the anti-rotation tab to prevent pre-loading of bearings.
- Metric bores available
- Other voltages available upon request.

START

CS-22, 26 Clutches & CSC-22, 26 Clutch Couplings

Dimensions & Specifications





Dimensions (mm)
Mounting requirements see page 128.

CS Model

CSC Model

CSC Model Shown

DIMENSIONS															
Model*	Static Torque in. (mm)	A: OD in. (mm)	B: OAL in. (mm)	C: Bore Ø in. (mm)	D: K'way Height in. (mm)	E: K'way Width in. (mm)	F: Tab Height in. (mm)	G: Slot Height in. (mm)	H: Tab Width in. (mm)	J: Slot Width in. (mm)	K: Tab Thick. in. (mm)	L: Lngth in. (mm)	M: Mtg Ø x R: Lngth in. (mm)	N: (3) Mtg. Holes	P: Mtg. Hole BC Ø in. (mm)
CS-22B24-E05-E05	40 (4.52)	2.26 (57.4)	2.20 (55.9)	.312 (7.9)	.364 (9.2)	.094 (2.4)	1.52 (38.6)	1.16 (29.5)	0.44 (11.2)	0.19 (4.8)	0.06 (1.5)	0.36 (9.1)	.756 x .37 (19.2 x 9.4)	NA	NA
CS-22B24-E06-E06	40 (4.52)	2.26 (57.4)	2.20 (55.9)	.375 (9.5)	.425 (10.8)	.094 (2.4)	1.52 (38.6)	1.16 (29.5)	0.44 (11.2)	0.19 (4.8)	0.06 (1.5)	0.36 (9.1)	.756 x .37 (19.2 x 9.4)	NA	NA
CS-22B24-E08-E08	40 (4.52)	2.26 (57.4)	2.20 (55.9)	.500 (12.7)	.564 (14.3)	.125 (3.2)	1.52 (38.6)	1.16 (29.5)	0.44 (11.2)	0.19 (4.8)	0.06 (1.5)	0.36 (9.1)	.756 x .37 (19.2 x 9.4)	NA	NA
CSC-22B24-E05-E05	40 (4.52)	2.26 (57.4)	2.06 (52.3)	.312 (7.9)	.364 (9.2)	.094 (2.4)	1.52 (38.6)	1.16 (29.5)	0.44 (11.2)	0.19 (4.8)	0.06 (1.5)	0.36 (9.1)	NA	NA	NA
CSC-22B24-E06-E06	40 (4.52)	2.26 (57.4)	2.06 (52.3)	.375 (9.5)	.425 (10.8)	.094 (2.4)	1.52 (38.6)	1.16 (29.5)	0.44 (11.2)	0.19 (4.8)	0.06 (1.5)	0.36 (9.1)	NA	NA	NA
CSC-22B24-E08-E08	40 (4.52)	2.26 (57.4)	2.06 (52.3)	.500 (12.7)	.564 (14.3)	.125 (3.2)	1.52 (38.6)	1.16 (29.5)	0.44 (11.2)	0.19 (4.8)	0.06 (1.5)	0.36 (9.1)	NA	NA	NA
CS-26B24-E06-E06	80 (9.04)	2.63 (66.8)	2.47 (62.7)	.375 (9.5)	.425 (10.8)	.094 (2.4)	1.75 (44.5)	1.34 (34.0)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.34 (8.6)	.999 x 0.47 (25.4 x 11.9)	#8-32	1.375 (34.9)
CS-26B24-E08-E08	80 (9.04)	2.63 (66.8)	2.47 (62.7)	.500 (12.7)	.564 (14.3)	.125 (3.2)	1.75 (44.5)	1.34 (34.0)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.34 (8.6)	.999 x 0.47 (25.4 x 11.9)	#8-32	1.375 (34.9)
CSC-26B24-E06-E06	80 (9.04)	2.63 (66.8)	2.10 (53.3)	.375 (9.5)	.425 (10.8)	.094 (2.4)	1.75 (44.5)	1.34 (34.0)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.34 (8.6)	NA	NA	NA
CSC-26B24-E08-E08	80 (9.04)	2.63 (66.8)	2.10 (53.3)	.500 (12.7)	.564 (14.3)	.125 (3.2)	1.75 (44.5)	1.34 (34.0)	0.50 (12.7)	0.19 (4.8)	0.06 (1.5)	0.34 (8.6)	NA	NA	NA

PERFORMANCE										
Model	Static Torque lbs.-in. (Nm)	Coil Voltage VDC	Resistance Ohms nom.	Power Watts max	Armature Engagement msec	Armature Disengagement msec	Armature Inertia lbs.-in.-sec^2	Rotor Inertia lbs.-in.-sec^2	Weight lbs. (kg)	Energy Dissipation ft.-lbs./min
CS-22	40 (4.52)	24/90	75/1059	8.5	12.0	32.0	33.4×10^{-5}	32.3×10^{-5}	1.1 (0.5)	1400
CSC-22	40 (4.52)	24/90	75/1059	8.5	12.0	32.0	33.1×10^{-5}	32.3×10^{-5}	1.1 (0.5)	1400
CS-26	80 (9.04)	24/90	65/893	9.5	15.0	35.0	80.0×10^{-5}	62.0×10^{-5}	1.4 (0.6)	2600
CSC-26	80 (9.04)	24/90	65/893	9.5	15.0	35.0	81.0×10^{-5}	62.0×10^{-5}	1.4 (0.6)	2600

*See "How to order" model numbering system on page 90 for clutches & clutch couplings.
(-) denotes metric equivalents. Specifications subject to change without notice.

General Notes

- Initial working air gap at installation shall be .006/.013.
- Static torque values above are burnished
- Customer shall maintain a loose pin fit through the anti-rotation tab to prevent pre-loading of bearings.
- Metric bores available
- Other voltages available upon request.

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