

SFDC Series Stationary Field Multiple Disc Clutches

Nine standard frame sizes available:

- 3.9 to 9.2" diameter ; 2.6 to 5.4" length
- Bore sizes from 0.8 to 2.8"
- Static torque from 11 to 722 lb-ft (wet); 12 to 802 lb-ft (dry)
- 1750 to 4200 RPM
- Operates both dry and in oil
- Modified designs and customized assemblies available

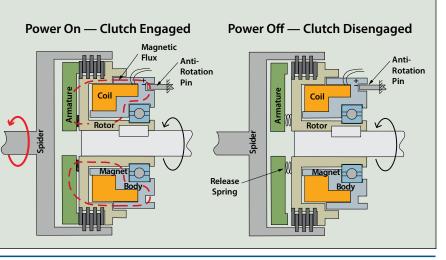


Performance/Mechanic	SFDC Series — Model Size									
Specifications	-	395	435	475	520	580	640	720	795	925
Static Torque (Wet)	lb-ft	11	21	42	68	106	170	272	459	722
Static Torque (Wet)	Nm	14.9	28.5	56.9	92.2	143.7	230.5	368.8	622.3	978.9
Starting Torque (Mot)	lb-ft	6	11	23	38	59	97	153	255	408
Starting Torque (Wet)	Nm	8.1	14.9	31.2	51.5	80.0	131.5	207.4	345.7	533.2
Static Targua (Dru)	lb-ft	12	23	47	76	118	189	302	510	802
Static Torque (Dry)	Nm	16.2	31.2	63.7	103.0	160.0	256.2	409.5	691.5	1087.4
Starting Torque (Dru)	lb-ft	9	17	35	57	89	146	230	383	612
Starting Torque (Dry)	Nm	12.2	23.0	47.5	77.3	120.7	197.9	4311.8	519.3	829.8
Recommended Max Speed	RPM	4200	4000	3500	3200	3000	2500	2200	2000	1750
Coil Data – 24VDC	Amne	1.10	1.37	1.86	1.95	2.51	3.02	3.61	4.27	4.34
110VDC	Amps	0.30	0.36	0.44	0.48	0.62	0.75	0.90	1.03	1.08
Thermal Capacity	BTU/min	10.8	13.3	15.8	18.3	22.5	28.3	36.7	50.0	70.0
Approvimate Weight	lb	5	7	9	13	17	23	33	45	70
Approximate Weight	kg	2.27	3.18	4.08	5.90	7.71	10.43	14.97	20.41	31.75

SFDC Operation:

When current is applied to the coil in the magnet body, a magnetic field is created which attracts the armature toward the rotor face. This causes the outer disc to be squeezed between the inner discs, allowing torque to be transmitted from the input (rotor) to the output (spider). The magnet body is held stationary by means of an antirotation hole as specified by the customer.

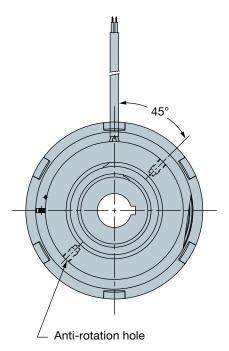
When current is turned off, the armature is disengaged from the rotor with release springs to assist.

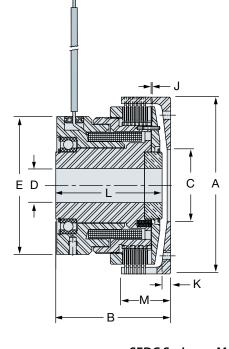


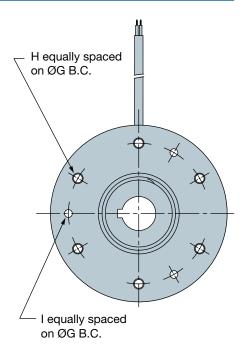
SEPAC Inc. www.sepac.com 1580 Lake Street, Elmira, NY 14901 • Phone: 800.331.3207 607.732.2030 • Fax: 607.732.0273 Specifications subject to change without notice. Please consult SEPAC Engineering prior to final selection.



Disc Clutches







			SFDC Series — Model Size									
Dimensions — Inches (mm)		า)	395	435	475	520	580	640	720	795	925	
Overall Diameter		A	3.93 (99.82)	4.33 (109.98)	4.72 (119.89)	5.19 (131.83)	5.78 (146.81)	6.37 (161.80)	7.16 (181.86)	7.95 (201.93)	9.25 (234.95)	
Overall	l Length (ref)	В	2.56 (65.02)	2.75 (69.85)	3.06 (77.72)	3.37 (85.60)	3.56 (90.42)	3.75 (95.25)	4.16 (105.66)	4.75 (120.65)	5.44 (138.18)	
Spider Bore	Min	С	1.500 (38.100)	1.750 (44.450)	2.000 (50.800)	2.125 (53.975)	2.375 (60.325)	2.750 (69.850)	2.875 (73.025)	3.375 (85.725)	4.000 (101.600)	
	Max	С	2.750 (69.850)	2.950 (74.930)	3.340 (84.836)	3.540 (89.916)	4.130 (104.902)	4.520 (114.808)	5.310 (134.620)	5.900 (149.860)	6.880 (174.752)	
Rotor Bore	Min	D	0.562 (14.275)	0.750 (19.050)	0.750 (19.050)	1.000 (25.400)	1.000 (25.400)	1.188 (30.175)	1.375 (34.925)	1.625 (41.275)	1.750 (44.450)	
	Max	D	0.875 (22.225)	1.125 (28.575)	1.250 (31.750	1.500 (38.100)	1.687 (42.850)	1.875 (47.625)	2.000 (50.800)	2.250 (57.150)	2.875 (73.025)	
Magnet Body Diameter		E	3.07 (77.98)	3.38 (85.85)	3.68 (93.47)	4.05 (102.87)	4.50 (114.30)	5.00 (127.00)	5.58 (141.73)	6.20 (157.48)	7.22 (183.39)	
Spider*	Mounting Circle	G	3.22 (81.79)	3.54 (89.92)	3.93 (99.82)	4.13 (104.90)	4.80 (121.92)	5.31 (134.87)	6.10 (154.94)	6.69 (169.93)	7.87 (199.90)	
	* Threaded Mounting Holes (Qty)	Н	1/4-20 (4)	1/4-20 (4)	1/4-20 (6)	5/16-18 (6))5/16-18 (6)	5/16-18 (6)	3/8-16 (6)	3/8-16 (6)	1/2-13 (6)	
	Dowel Holes (Qty)	I	1/4 (2)	1/4 (2)	1/4 (3)	1/4 (3)	5/16 (3)	5/16 (3)	3/8 (3)	3/8 (3)	1/2 (3)	
Air Gap		J	0.009 (0.229)	0.009 (0.229)	0.009 (0.229)	0.010 (0.254)	0.011 (0.279)	0.012 (0.305)	0.014 (0.356)	0.016 (0.406)	0.020 (0.508)	
Spider Face Depth		К	0.196 (4.978)	0.196 (4.978)	0.236 (5.994)	0.275 (6.985)	0.275 (6.985)	0.275 (6.985)	0.315 (8.001)	0.354 (8.992)	0.393 (9.882)	
Bore Length		L	2.36 (59.94)	2.56 (65.02)	2.80 (71.12)	3.12 (79.25)	3.30 (83.82)	3.50 (88.90)	3.88 (98.55)	4.40 (111.76)	5.06 (128.52)	
Spider Length		М	1.10 (27.94)	1.13 (28.70)	1.33 (33.78)	1.44 (36.58)	1.52 (38.61)	1.55 (39.37)	1.73 (43.94)	2.04 (51.82)	2.34 (59.44)	

* Recommended bolt pattern; others optional, contact SEPAC

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