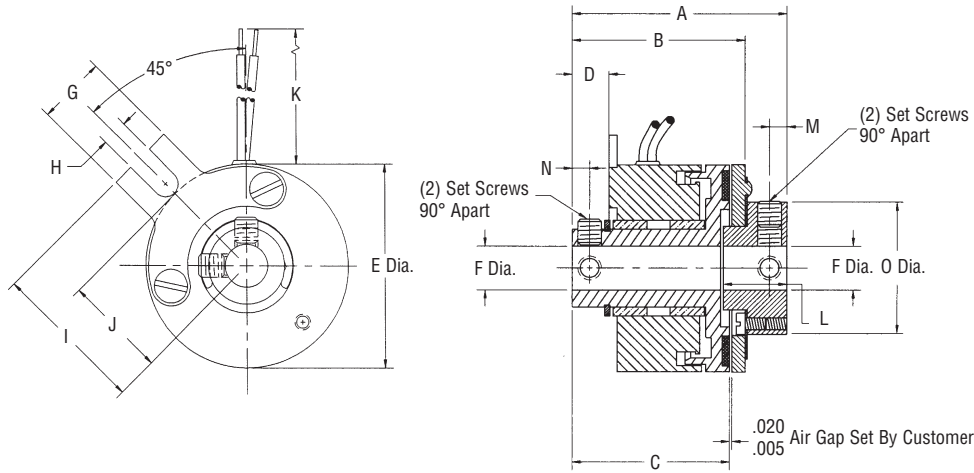
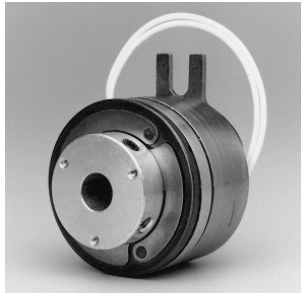
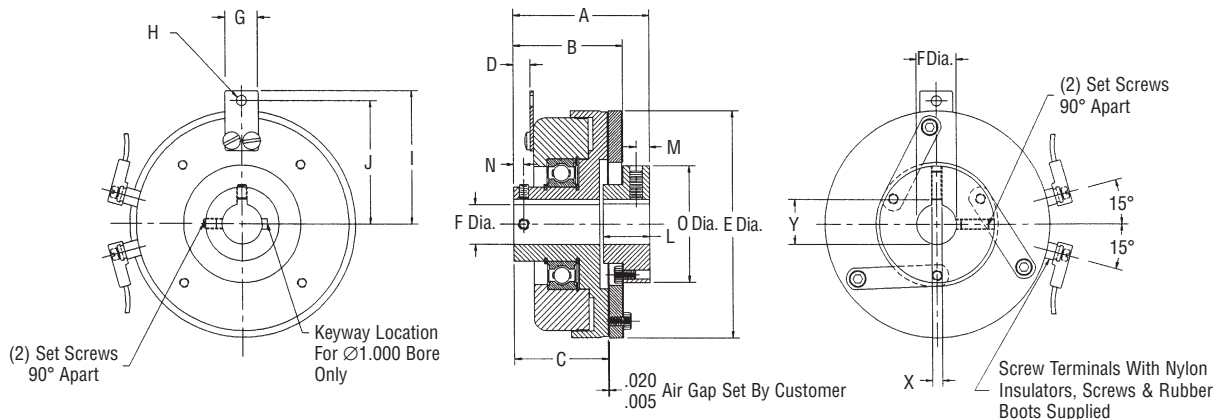


Shaft Mounted Clutch Couplings – Type SO

SO series power-on clutch couplings are used to couple two in-line shafts. The armature hub assembly is mounted to the load shaft, and the rotor assembly is mounted on the input shaft. The field assembly is mounted on the input shaft and retained by a loose-fitting pin or bracket through the anti-rotation tab.



Model SO08 through SO26



Model SO30 through SO42

Customer Shall Maintain:

a loose-fitting pin through the anti-rotation tab to prevent preloading the bearings; concentricity between the shafts within .005 inch T.I.R.; initial air gap setting of .005-.020 inches.

Mechanical

MODEL NO.	STATIC TORQUE LB. – IN.	INERTIA LB. – IN. ²		WGT. OZ.
		ROTOR	ARM & HUB	
S008	2.5	.002	.0011	2
S011	6	.0058	.0024	3.2
S015	10	.060	.026	3.8
S017	15	.061	.031	11
S019	25	.082	.042	12
S022	50	.215	.070	20
S026	80	.362	.320	28
S030	125	.610	.561	45
S042	250	2.50	2.30	80

Electrical

MODEL NO.	90 VDC		24 VDC		12 VDC	
	AMPS	OHMS	AMPS	OHMS	AMPS	OHMS
S008	.046	1977	.117	205	.246	48.8
S011	.047	1930	.198	121	.447	26.8
S015	.042	2150	.183	132	.380	31.6
S017	.066	1369	.289	83	.561	21.4
S019	.074	1213	.322	74.4	.574	20.9
S022	.079	1140	.322	74.6	.628	19.1
S026	.092	980	.374	64.2	.760	15.8
S030	.091	988	.378	65.3	.729	16.4
S042	.124	722	.468	51.2	.934	12.84

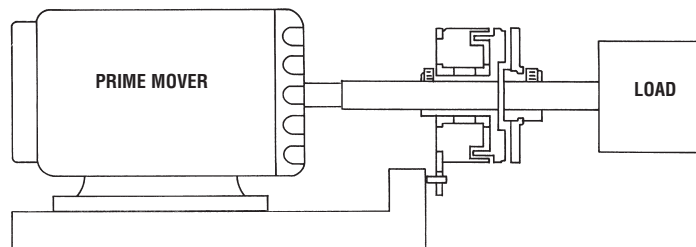
Lead wire is UL recognized style 1213, 1015 or 1430, 22 gage.
Insulation is .050" O.D. on 08, 11, 15 units; .064" or .095" O.D. on all other units.

Dimensions

MODEL NO.	A MAX.	B NOM.	C NOM.	D NOM.	E MAX.	F NOM.	G MAX.	H MIN.	I NOM.	J NOM.	K ± .500	ROTOR KEYWAYS		L MAX.	M NOM.	N NOM.	O MAX.	
												BORE	NOMINAL KEYWAY X | Y					
S008	1.059	.875	.763	.191	.903	$\frac{1}{8}$ $\frac{3}{16}$ $\frac{1}{4}$	.305	.094	.625	.445	12.00	N.A.	SET SCREWS ONLY	.237	.070	.080	.500	
S011	1.168	.933	.777	.147	1.160	$\frac{3}{16}$ $\frac{1}{4}$ $\frac{5}{16}$	.380	.122	.875	.585	12.00	N.A.	SET SCREWS ONLY	.307	.093	.087	.687	
S015	1.575	1.255	1.075	.275	1.500	$\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$	.520	.180	1.120	.750	12.00	N.A.	SET SCREWS ONLY	.475	.125	.125	.965	
S017	1.605	1.311	1.060	.270	1.780	$\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$	.505	.184	1.325	.975	12.00	$\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$	.0625 – .0655 .0625 – .0655 .094 – .097	.285 – .290 .347 – .352 .417 – .427	.460	.115	.125	1.190
S019	1.609	1.314	1.060	.270	2.000	$\frac{5}{16}$ $\frac{5}{8}$ $\frac{1}{2}$	.505	.184	1.325	.975	12.00	$\frac{5}{16}$ $\frac{3}{8}$ $\frac{1}{2}$	.0625 – .0655 .094 – .097 .125 – .128	.347 – .352 .417 – .427 .560 – .567	.455	.115	.125	1.190
S022	1.989	1.578	1.423	.281	2.260	$\frac{3}{8}$ $\frac{1}{2}$	.442	.170	1.515	1.160	18.00	$\frac{3}{8}$ $\frac{1}{2}$	.094 – .097 .125 – .128	.417 – .427 .560 – .567	.510	.115	.117	1.005
S026	2.115	1.754	1.444	.277	2.645	$\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$	.510	.190	1.750	1.465	18.00	$\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$	.094 – .097 .125 – .128 .1885 – .1905	.417 – .427 .560 – .567 .709 – .716	.610	.150	.187	1.440
S030	2.151	1.815	1.403	.265	3.268	$\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$	.442	.170	2.050	1.695	SCREW TER-MINALS	$\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$	.125 – .128 .1885 – .1905 .1885 – .1905	.560 – .567 .709 – .716 .836 – .844	.680	.150	.135	1.825
S042	2.570	2.050	1.625	.320	4.270	$\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ 1	.645	.190	2.500	2.312	SCREW TER-MINALS	$\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ 1	.125 – .128 .1885 – .1905 .1885 – .1905 .1885 – .1905 .251 – .253	.560 – .567 .709 – .716 .836 – .844 .962 – .970 1.113 – 1.121	.890	.250	.187	2.195

NOTES:

- 30 and 42 units have a single ball bearing between the field and rotor.
- 08 units have set screws 120° apart.
- 08 and 19 units have retaining collar.



PART NUMBERING SYSTEM FOR PRODUCTS ON PAGES 3 TO 35 OF THIS CATALOG

A			A			B		B-C		D		E		F	
DIGIT	DIGIT	MODEL NO.	DIGIT	DIGIT	SIZE	DIGIT	VOLTS	DIGIT	BORE	DIGIT	DRIVE	DIGIT	CONNECTION		
1	7	FSB	0	1	001	1	90 VDC	1	1/8	1	ZERO BACKLASH	1	LEAD WIRES		
1	9	FSBR	0	2	003	2	24 VDC	2	3/16	2	HEX/SQUARE	2	SCREW TERMINALS		
2	1	FSBR (MANUAL RELEASE)	0	3	007	3	12 VDC	3	1/4	3	DYNAMIC (MANUAL RELEASE BRAKE ONLY)	3	SWITCH (MANUAL RELEASE BRAKE ONLY)		
			0	4	015	4	120 VAC	4	5/16	4	STATIC (MANUAL RELEASE BRAKE ONLY)	4	CONDUIT BOX		
			0	5	035			5	3/8	5	SPLINE				
			0	6	050			6	1/2						
			0	7	100			7	5/8						
			0	8	200			8	3/4						
0	1	SL	0	9	08			9	7/8						
0	3	BSL	1	0	11			0	1						
0	5	FL	1	1	15			11	1 1/8						
0	7	SO	1	2	17			12	1 1/4						
0	9	FO	1	3	19			13	1 3/8						
1	1	FB	1	4	22			14	1 1/2						
1	3	SLB	1	5	26										
1	5	SOB	1	6	30										
			1	7	42										
1	8	SAB	1	8	20										
			1	9	90										
			2	1	180										
			2	3	400										
			2	5	1200										

How To Order

- A. Select the model number from the product guide.
- B. Select the size of the clutch or brake.
- C. Select the voltage.
- D. Select the bore diameter.
- E. For all power-on clutches and brakes, select 1. For model FSBR and SAB-20, & 90, select 2. For model FSB spring applied brakes, select 1 or 2. For manual release brakes, select 3 or 4. For SAB-180, 400, & 1200, select 5.
- F. For all clutches and brakes, refer to the product guide and specify 1 or 2. For manual release brakes, if a switch is desired, select 3, otherwise use a 1.

Example

SL11 clutch, 24 volts, 1/4" bore
 Part No. 0110-2311
 FSB050 brake, 90 volts, 3/8" bore, Hex drive
 Part No. 1706-1521