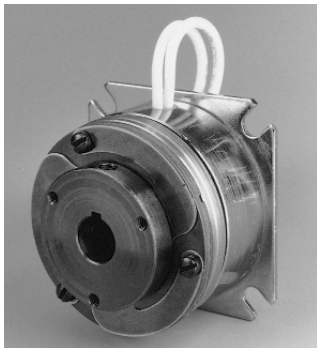
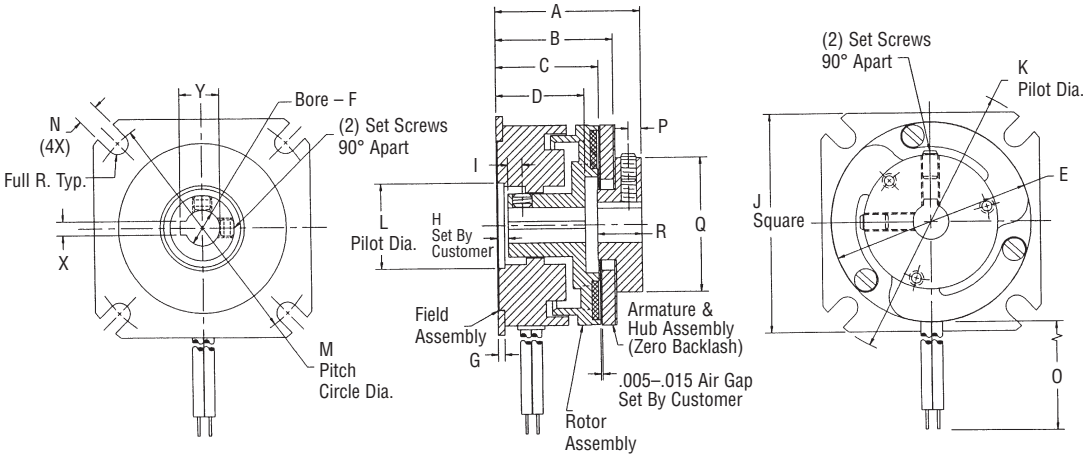
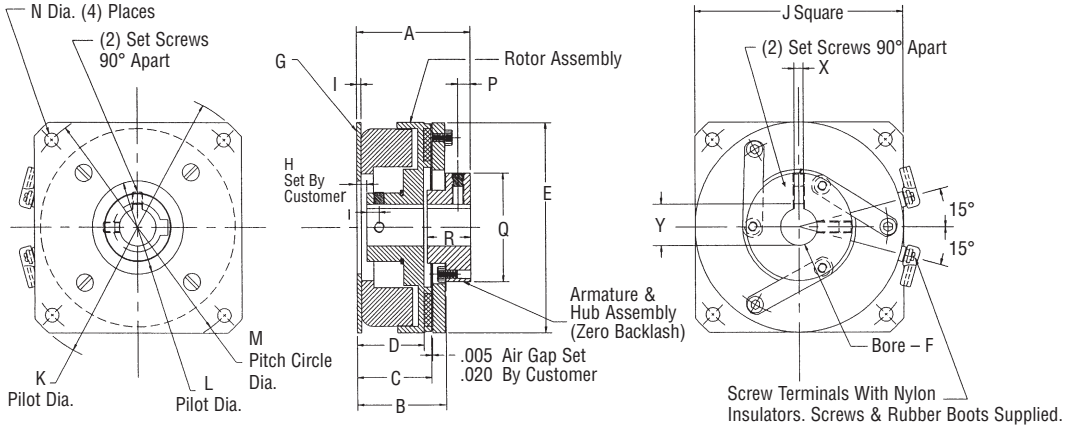
FO series power-on clutch couplings are used to couple two in-line shafts. The armature hub assembly is mounted to the load shaft, and the rotor assembly is mounted on the input shaft. The field assembly is mounted to a bulkhead that is perpendicular to the shaft.





Model FO08 through FO26



Model FO30 through FO42

Customer Shall Maintain:

the perpendicularity of the mounting surface with respect to the shaft not to exceed .005 inch T.I.R. at a diameter equal to the bolt circle; initial air gap setting of .005-.020 inches; concentricity between the clutch mounting pilot diameter and the shaft not to exceed .004 inch T.I.R.

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Flange Mounted Clutch Couplings – Type FO

Mechanical

MODEL NO.	STATIC TORQUE LB .– IN.	INERTIA LB. – IN.²		WGT. OZ.
		ROTOR	ARM & HUB	
FO08	2.5	.0019	.0011	2
FO11	6	.005	.0024	3.2
FO15	10	.0054	.026	3.8
FO17	15	.059	.031	11
FO19	25	.080	.042	12
FO22	50	.210	.070	20
FO26	80	.451	.320	28
FO30	125	.610	.561	40
FO42	250	2.50	2.30	75

Electrical

MODEL NO.	90 VDC		24 VDC		12 VDC	
	AMPS	OHMS	AMPS	OHMS	AMPS	OHMS
FO08	.046	1977	.117	205	.246	48.8
FO11	.047	1930	.198	121	.447	26.8
FO15	.042	2150	.183	132	.380	31.6
FO17	.066	1369	.289	83	.561	21.4
FO19	.074	1212	.322	74.4	.574	20.9
FO22	.079	1140	.322	74.6	.628	19.1
FO26	.088	1024	.358	67.1	.667	18.0
FO30	.091	988	.378	65.3	.729	16.5
FO42	.124	722	.468	51.2	.934	12.84

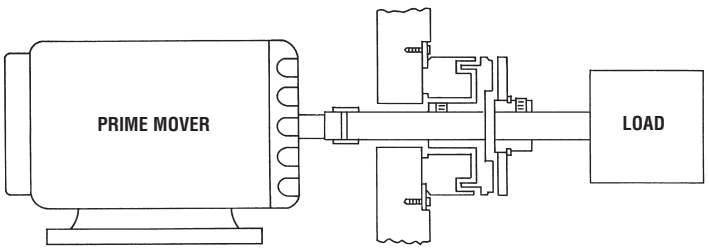
Lead wire is UL recognized style 1213, 1015 or 1430, 22 gage.
Insulation is .050″ O.D. on 08, 11, 15 units; .064″ or .095″ O.D. on all other units.

Dimensions

MODEL NO.	A MAX.	B NOM.	C NOM.	D NOM.	E MAX.	F NOM.	G MAX.	H ± .005	I ± .005	J MAX.	K ± .001	L ± .001	M NOM.	N MIN.	O ± .500	KEYWAYS			P NOM.	Q MAX.	R MAX.
																BORE	NOMINAL KEYWAY X	Y			
FO08	.882	.693	.641	.582	.905	1/8 3/16 1/4	.034	.020	.188	.980	1.1995	N.A.	1.030	.094	12.00	N.A.	ONE ROLL PIN PILOT HOLE		.070	.500	.237
FO11	1.012	.772	.691	.616	1.160	3/16 1/4 5/16	.048	.020	.188	1.230	1.498	N.A.	1.312	.123	12.00	N.A.	ONE ROLL PIN PILOT HOLE		.093	.687	.307
FO15	1.302	.972	.865	.800	1.500	1/4 5/16 3/8	.063	.100	.130	1.567	1.999	N.A.	1.750	.156	12.00	N.A.	ONE ROLL PIN PILOT HOLE		.125	.965	.475
FO17	1.328	1.051	.925	.800	1.780	1/4 5/16 3/8	.064	.100	.130	1.943	2.436	.751	2.125	.186	12.00	1/4 5/16 3/8	.0625 – .0655 .0625 – .0655 .094 – .097	.285 – .290 .347 – .352 .417 – .427	.115	1.19	.45
FO19	1.330	1.029	.901	.781	2.000	5/16 3/8 1/2	.062	.100	.130	1.943	2.436	.751	2.125	.186	12.00	5/16 3/8 1/2	.0625 – .0655 .094 – .097 ROLL PIN HOLE	.347 – .352 .417 – .427	.115	1.19	.455
FO22	1.757	1.325	1.173	1.023	2.260	3/8 1/2	.096	.100	.188	2.322	2.873	1.001	2.500	.160	18.00	3/8 1/2	.094 – .097 .125 – .128	.417 – .427 .560 – .567	.115	1.005	.510
FO26	1.813	1.460	1.300	1.150	2.645	3/8 1/2 5/8	.080	.375	.172	2.630	3.499	1.062	3.125	.182	18.00	3/8 1/2 5/8	.094 – .097 .125 – .128 .1885 – .1905	.417 – .427 .560 – .567 .709 – .716	.150	1.44	.610
FO30	1.900	1.580	1.310	1.160	3.268	1/2 5/8 3/4	.097	.147	.093	3.200	4.186	1.751	3.750	.182	SCREW TER-MINALS	1/2 5/8 3/4	.125 – .128 .1885 – .1905 .1885 – .1905	.560 – .567 .709 – .716 .836 – .844	.150	1.825	.680
FO42	2.280	1.760	1.490	1.490	4.270	1/2 5/8 3/4 7/8 1	.097	.190	.250	4.270	5.624	1.875	5.000	.276	SCREW TER-MINALS	1/2 5/8 3/4 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	.250	2.195	.890

NOTES:

1. 08, 11 and 15 units have one roll pin pilot hole in rotor – no set screws.



See page 3 for ordering information

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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.
1	7	FSB
1	9	FSBR
2	1	FSBR (MANUAL RELEASE)
0	1	SL
0	3	BSL
0	5	FL
0	7	SO
0	9	FO
1	1	FB
1	3	SLB
1	5	SOB
1	8	SAB

DIGIT	DIGIT	SIZE
0	1	001
0	2	003
0	3	007
0	4	015
0	5	035
0	6	050
0	7	100
0	8	200
0	9	08
1	0	11
1	1	15
1	2	17
1	3	19
1	4	22
1	5	26
1	6	30
1	7	42
1	8	20
1	9	90
2	1	180
2	3	400
2	5	1200

DIGIT	VOLTS
1	90 VDC
2	24 VDC
3	12 VDC
4	120 VAC

DIGIT	BORE
1	1/8
2	3/16
3	1/4
4	5/16
5	3/8
6	1/2
7	5/8
8	3/4
9	7/8
0	1
11	1 1/8
12	1 1/4
13	1 3/8
14	1 1/2

DIGIT	DRIVE
1	ZERO BACKLASH
2	HEX/SQUARE
3	DYNAMIC (MANUAL RELEASE BRAKE ONLY)
4	STATIC (MANUAL RELEASE BRAKE ONLY)
5	SPLINE

DIGIT	CONNECTION
1	LEAD WIRES
2	SCREW TERMINALS
3	SWITCH (MANUAL RELEASE BRAKE ONLY)
4	CONDUIT BOX

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

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