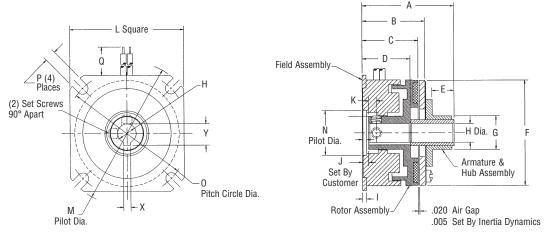
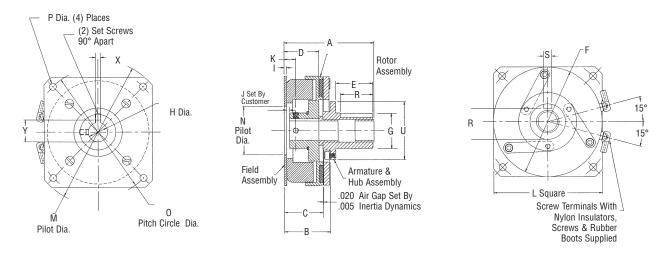
# Flange Mounted Clutches - Type FL

FL series power-on clutches are used to couple two parallel shafts. The armature hub assembly is mounted to the same shaft as the rotor assembly. The armature hub accommodates a pulley, gear, sprocket, etc., to transmit torque to the second shaft. The field assembly is mounted to a bulkhead that is perpendicular to the input shaft.





### Model FL08 through FL26



## Model FL30 or FL42

#### 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; concentricity between the clutch mounting pilot diameter and the shaft not to exceed .004 inch T.I.R.



## Flange Mounted Clutches – Type FL

#### Mechanical

	STATIC	INERTIA		
MODEL NO.	TORQUE LB. – IN.	ROTOR	ARM & HUB	WGT. OZ.
FL08	2.5	.002	.0015	2.0
FL11	6	.005	.0029	3.2
FL15	10	.0054	.0031	3.8
FL17	15	.059	.036	11
FL19	25	.080	.047	12
FL22	50	.210	.079	20
FL26	80	.451	.292	28
FL30	125	.610	.561	45
FL42	250	2.50	2.30	80

#### Electrical

MODEL	90 \	/DC	24 \	/DC	12 VDC			
NO.	AMPS	OHMS	AMPS	OHMS	AMPS	OHMS		
FL08	.046	1977	.117	205	.246	48.8		
FL11	.047	1930	.198	121	.447	26.8 31.6 21.4		
FL15	.042	2150	.183	132	.380			
FL17	.066	1369	.289	83	.561			
FL19	.074	1213	.322	74.4	.574	20.9		
FL22	.079	1140	.322	74.6	.628	19.1		
FL26	.092	980	.374	64.2	.760	15.8		
FL30	.091	988	.378	65.3	.729	16.5		
FL42	.42 .124		.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.

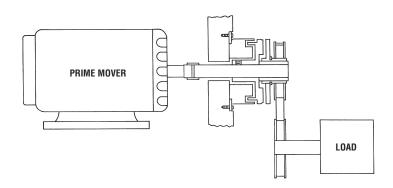
### **Dimensions**

																		ROTOR KEYWAY				
MODEL NO.	A MAX.	B NOM.	C NOM.	D NOM.	E MAX.	F MAX.	G ± .002.	H NOM.	I MAX.	J ± .005	K ± .005	L MAX.	M ± .001	N ± .001	O NOM.	P MIN.	Q ± .500	BORE	NOMINAL X	KEYWAY Y	R MIN.	S ±.002
FL08	1.203	.715	.641	.582	.410	.905	.507	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		_	_
FL11	1.253	.774	.691	.616	.396	1.160	.505	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		_	_
FL15	1.420	.975	.870	.805	.303	1.500	.630	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		_	_
FL17	1.568	1.053	.925	.800	.382	1.789	.630	1/ <sub>4</sub> 5/ <sub>16</sub> 3/ <sub>8</sub>	.064	.100	.130	1.943	2.436	.751	2.125	.186	12.00	1/4 5/16 3/8	.06250655 .06250655 .094097	.285290 .347352 .417427	_	_
FL19	1.675	1.050	.910	.790	.470	2.000	.756	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 PI	.347 – .352 .417 – .427 N HOLE	_	_
FL22	1.928	1.328	1.173	1.023	.432	2.260	.756	3/8 1/2	.096	.100	.188	2.322	2.873	1.001	2.500	.160	18.00	3/8 1/2	.094097 .125128	.417427 .560567	_	_
FL26	2.173	1.458	1.300	1.150	.472	2.645	.999	3/8 1/2 5/8	.064	.375	.172	2.630	3.499	1.062	3.125	.182	18.00	3/8 1/2 5/8	.094097 .125128 .18851905	.417427 .560567 .709716	_	_
FL30	2.575	1.580	1.310	1.160	.830	3.268	1.374	1/2 5/8 3/4	.097	.147	.310	3.200	4.186	1.751	3.750	.182	SCREW TER- MINALS	1/ <sub>2</sub> 5/ <sub>8</sub> 3/ <sub>4</sub>	.125128 .18851905 .18851905	.560567 .709716 .836844	1.198 1.193	<u>.312</u> .314
FL42*	3.540	1.760	1.490	1.345	1.550	4.255	1.374	1/2 5/8 3/4 7/8	.097	.190	.250	4.255	5.624	1.875	5.000	.276	SCREW TER- MINALS	1/2 5/8 3/4 7/8* 1*	.125128 .18851905 .18851905 .18851905 .251253	.560567 .709716 .836844 .962970 1.1131.121	<u>1.198</u> 1.193	

<sup>\*7/8</sup> and 1 inch bore in rotor only.

#### NOTES:

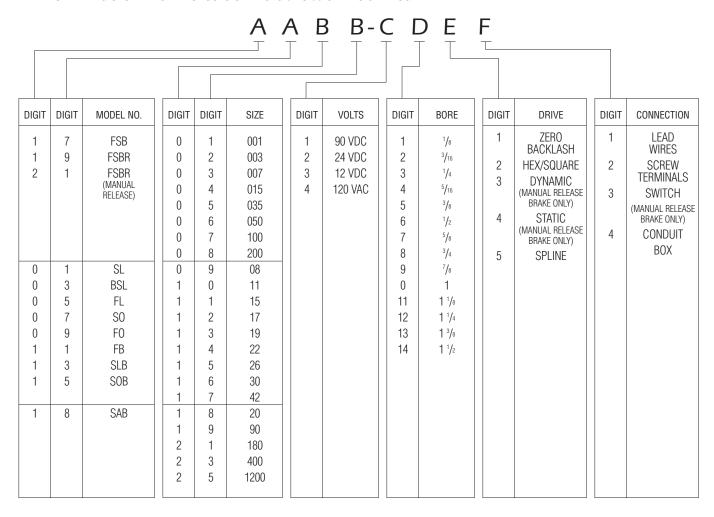
- 1. 08, 11 and 15 units have one roll pin pilot hole in rotor no set screws.
- 2. 26 units have (3) #8–32 tapped holes on 1.375 in. B.C. in armature hub face instead of knurl.
- 3. 30 and 42 units have keyway instead of knurl.
- 4.  $^{7}/_{8}$  and 1 inch bore in rotor only for 42 unit.





## **Ordering Information**

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



#### 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

