

FD FLODRAULIC



SELECTION GUIDE & PRICE LIST 2008

Motor Starters

EFFECTIVE JANUARY 1, 2008

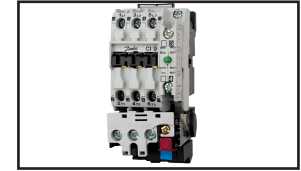
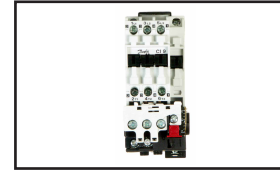


TYPE	ENCLOSURE	CONTROL	PAGE
FVR	open	none	2
FVR	Type 1, 12, metal	Fwd-Rev	8,9
FVNR	open	none	1
FVNR	Starter Base and Lid	start/stop	3
FVNR	Type 4, non-metallic	start/stop	4
FVNR	Type 1, metal	start/stop	5
FVNR	Type 1, metal	HOA	6
FVNR	Type 12, metal	HOA	7
2-spnd	Type 1, 12, metal	High-Low	10



Open Style Non-Reversing Starters with 3 pole thermal overload relay

Start-Stop/Reset includes start aux. contact



Amp AC3	Horsepower						Overload Range	Stop/Reset		Start-Stop/Reset	
	115/1	230/1	208/3	230/3	460/3	600/3		Code #	List \$	Code #	List \$
9	-	-	-	-	-	-	.13 - .20	047B5560	168	047B5500	175
	-	-	-	-	-	-	.19 - .29	047B5561		047B5501	
	-	-	-	-	-	-	.27 - .42	047B5562		047B5502	
	-	-	-	-	-	-	.40 - .62	047B5563		047B5503	
	-	-	-	-	-	1/2	.60 - .92	047B5564		047B5504	
	-	-	1/4	1/4	1/2	3/4 - 1	.85 - 1.3	047B5565		047B5505	
	-	1/6	1/3	1/3	3/4 - 1	1.5	1.2 - 1.9	047B5566		047B5506	
	-	1/4	1/2	1/2 - 3/4	1.5	2	1.8 - 2.8	047B5567		047B5507	
	1/6	1/3	3/4 - 1	3/4 - 1	2	3	2.7 - 4.2	047B5568		047B5508	
	1/4	1/2 - 3/4	1.5	1.5 - 2	3	5	4.0 - 6.2	047B5569		047B5509	
1/3 - 1/2	1	2	3	5	7.5	6.0 - 9.2	047B5570	047B5510			
12	3/4	2	3	4	7.5	10	8 - 12	047B5586	180	047B5526	186
16	1	3	5	5	10	15	11 - 16	047B5602	205	047B5542	214
25	1.5	3	5	5	15	15	15 - 20	047B5618	274	047B5558	281
	2	4	7.5	7.5	15	20	19 - 25	047B5619		047B5559	
30	2	5	10	10	20	20	24 - 32	047B6056	365	047B6059	372
32	3	5	10	10	20	25	22 - 32	047B6050	461	047B6052	469
37	3	7.5	15	15	25	30	30 - 45	047B6057	548	047B6060	557
50	3	7.5	15	15	30	40	30 - 45	047B6064	634	047B6065	641
	5	10	15	15	30	40	42 - 63	047B6058		047B6061	

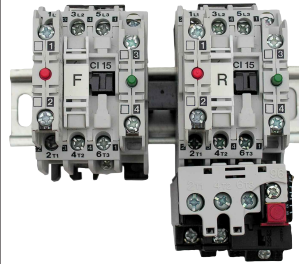
IMPORTANT Add coil suffix to code numbers as follows:

14	24V/60
23	110V,50/60
28	208/230,60
37	460V/60
94	575V/60



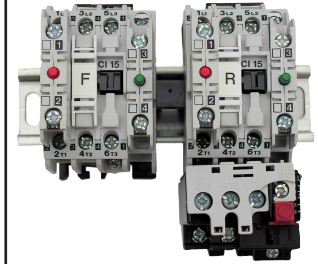
Open Style Rev. Starter (1 phase)
with 3 pole thermal overload relay

includes 1NO, 1NC aux. contact per contactor



Open Style Rev. Starter (3 phase)
with 3 pole thermal overload relay

includes 1NO, 1NC aux. contact per contactor



Amp AC3	Horsepower (1ph)		Overload Range	Code #	List \$	Horsepower (3ph)				Code #	List \$
	115/1	230/1				208/3	230/3	460/3	600/3		
9	-	-	.60 - .92	NA	NA	-	-	-	1/2	047L5404	385
	-	-	.85 - 1.3	NA	NA	1/4	1/4	1/2	3/4 - 1	047L5405	
	-	1/6	1.2 - 1.9	047B6070		1/3	1/3	3/4 - 1	1.5	047L5407	
	-	1/4	1.8 - 2.8	047B6071		1/2	1/2 - 3/4	1.5	2	047L5408	
	1/6	1/3	2.7 - 4.2	047B6072	385	3/4 - 1	3/4 - 1	2	3	047L5409	
	1/4	1/2 - 3/4	4.0 - 6.2	047B6073		1.5	1.5 - 2	3	5	047L5635	
	1/3 - 1/2	1	6.0 - 9.2	047B6074		2	3	5	7.5	047L5636	
12	3/4	2	8 - 12	047B6075	402	3	4	7.5	10	047B6082	402
16	1	3	11 - 16	047B6076	410	5	5	10	15	047B6084	410
25	1.5	3	15 - 20	047B6077	479	5	5	15	15	047B5638	479
	2	4	19 - 25	047B6078		7.5	7.5	15	20	047B6085	
30	2	5	24 - 32	047B6079	582	10	10	20	20	047B6086	582
32	3	5	22 - 32	047B5958	812	10	10	20	25	047B6087	812
37	3	7.5	30 - 45	047B6080	868	15	15	25	30	047B6088	868
			30 - 45	NA	NA	15	15	30	40	047B6089	932
50	5	10	42 - 63	047B6058	932						

IMPORTANT Add coil suffix to code numbers as follows:

14	24V/60
23	110V,50/60
28	208/230,60
37	460V/60
94	575V/60



Starter Base and Lid

NEMA 1-IP55		LIST PRICE
047L537200	Blank Lid NEMA 1-IP55	\$36.00
047L537100	Stop/Reset Button	\$49.20
047L537000	Start and Stop/Reset	\$57.60

NEMA 4-IP65		LIST PRICE
047L539600	Blank Lid	\$39.60
047L539700	Stop/Reset Button	\$54.00
047L539800	Start and Stop/Reset	\$61.20
047X576100	Start Button	\$49.20

BASES		
047B574200	Plastic Base	\$50.40



BLANK



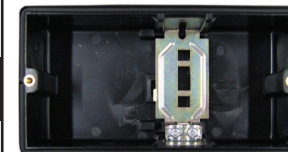
STOP/RESET



START/STOP/RESET



START



NOTE:
NEMA 4 version shown
in all pictures.



Enclosed Non-Reversing Starters with 3 pole thermal overload relay

TYPE 4 (non-metallic base and cover)
Start-Stop/Reset includes start aux. contact



Amp AC3	Horsepower						Overload Range	Stop/Reset		Start-Stop/Reset	
	115/1	230/1	208/3	230/3	460/3	600/3		Code #	List \$	Code #	List \$
9	-	-	-	-	-	-	.13 - .20	047B5834	263	047B5862	280
	-	-	-	-	-	-	.19 - .29	047B5835		047B5863	
	-	-	-	-	-	-	.27 - .42	047B5836		047B5864	
	-	-	-	-	-	-	.40 - .62	047B5837		047B5865	
	-	-	-	-	-	1/2	.60 - .92	047B5819		047B5821	
	-	-	1/4	1/4	1/2	3/4 - 1	.85 - 1.3	047B5818		047B5820	
	-	1/6	1/3	1/3	3/4 - 1	1.5	1.2 - 1.9	047B5807		047B5816	
	-	1/4	1/2	1/2 - 3/4	1.5	2	1.8 - 2.8	047B5808		047B5817	
	1/6	1/3	3/4 - 1	3/4 - 1	2	3	2.7 - 4.2	047B5800		047B5809	
	1/4	1/2 - 3/4	1.5	1.5 - 2	3	5	4.0 - 6.2	047B5801		047B5810	
1/3 - 1/2	1	2	3	5	7.5	6.0 - 9.2	047B5802	047B5811			
12	3/4	2	3	4	7.5	10	8 - 12	047B5803	272	047B5812	286
16	1	3	5	5	10	15	11 - 16	047B5804	299	047B5813	311
25	1.5	3	5	5	15	15	15 - 20	047B5805	356	047B5814	370
	2	4	7.5	7.5	15	20	19 - 25	047B5861		047B5889	

IMPORTANT Add coil suffix to code numbers as follows:

14	24V/60
23	110V,50/60
28	208/230,60
37	460V/60
94	575V/60



Enclosed Non-Reversing Starters with 3 pole thermal overload relay

TYPE 1 (steel enclosure with hinged door)
Start-Stop/Reset includes start aux. contact



Amp AC3	Horsepower						Overload Range	Stop/Reset		Start-Stop/Reset	
	115/1	230/1	208/3	230/3	460/3	600/3		Code #	List \$	Code #	List \$
25	2	4	7.5	7.5	15	20	19 - 25	047B5833	512	047B5832	530
30	2	5	10	10	20	20	24 - 32	047B5977	561	047B5978	576
32	3	5	10	10	20	25	22 - 32	047B5822	654	047B5824	669
37	3	7.5	15	15	25	30	30 - 45	047B5979	702	047B5980	719
50	3	7.5	10	15	30	40	30 - 45	047B5981	794	047B5982	807
73	5	10	15	20	40	50	42 - 63	047B5989	880	047B5990	894



Enclosed Non-Reversing Starters with 3 pole thermal overload relay

TYPE 12 (steel enclosure with hinged door)
Start-Stop/Reset includes start aux. contact



Amp AC3	Horsepower						Overload Range	Stop/Reset		Start-Stop/Reset	
	115/1	230/1	208/3	230/3	460/3	600/3		Code #	List \$	Code #	List \$
25	2	4	7.5	7.5	15	20	19 - 25	047B5831	597	047B5830	611
30	2	5	10	10	20	20	24 - 32	047B5983	611	047B5984	670
32	3	5	10	10	20	25	22 - 32	047B5826	814	047B5828	833
37	3	7.5	15	15	25	30	30 - 45	047B5985	876	047B5986	889
50	3	7.5	10	15	30	40	30 - 45	047B5987	964	047B5988	981
73	5	10	15	20	40	50	42 - 63	047B5991	1052	047B5992	1065

IMPORTANT Add coil suffix to code numbers as follows:

14	24V/60
23	110V,50/60
28	208/230,60
37	460V/60
94	575V/60



Enclosed Non-Rev. Starter (1 phase)

with 3 pole thermal overload relay

TYPE 1 (steel encl. with hinged door)
Hand-Off-Auto Sel Sw & pilot light



Enclosed Non-Rev. Starter (3 phase)

with 3 pole thermal overload relay

TYPE 1 (steel encl. with hinged door)
Hand-Off-Auto Sel Sw & pilot light
incl. control transformer, add suffix from table



Amp AC3	Horsepower (1ph)		Overload Range	Code #	List \$	Horsepower (3ph)				Code #	List \$
	115/1	230/1				208/3	230/3	460/3	600/3		
9	-	-	.60 - .92	NA	NA	-	-	-	1/2	047X5000	719
	-	-	.85 - 1.3	NA	NA	1/4	1/4	1/2	3/4 - 1	047X5001	
	-	1/6	1.2 - 1.9	047X5013	488	1/3	1/3	3/4 - 1	1.5	047X5002	
	-	1/4	1.8 - 2.8	047X5014		1/2	1/2 - 3/4	1.5	2	047X5003	
	1/6	1/3	2.7 - 4.2	047X5015		3/4 - 1	3/4 - 1	2	3	047X5004	
	1/4	1/2 - 3/4	4.0 - 6.2	047X5016		1.5	1.5 - 2	3	5	047X5005	
	1/3 - 1/2	1	6.0 - 9.2	047X5017		2	3	5	7.5	047X5006	
12	3/4	2	8 - 12	047X5018	495	3	4	7.5	10	047X5007	726
16	1	3	11 - 16	047X5019	524	5	5	10	15	047X5008	746
25	1.5	3	15 - 20	047X5020	570	5	5	15	15	047X5009	792
	2	4	19 - 25	047X5021		7.5	7.5	15	20	047X5010	
30	2	5	24 - 32	047X5025	637	10	10	20	20	047X5041	861
32	3	5	22 - 32	047X5061	854	10	10	20	25	047X5042	1124
37	3	7.5	30 - 45	047X5026	894	15	15	25	30	047X5043	1163
50	3	10	42 - 63	047X5027	912	15	15	30	40	047X5044	1196

IMPORTANT If using different coil voltage than motor voltage, add proper transformer suffix:

11	110/24V	185
12	240/24V	185

IMPORTANT Add control transformer suffix as follows:

01	600/24	06	460/240
02	600/120	07	240/24
03	600/240	08	240/120
04	460/24	09	208/24
05	460/120	10	208/120



Enclosed Non-Rev. Starter (1 phase)

with 3 pole thermal overload relay

TYPE 12 (steel encl. with hinged door)
Hand-Off-Auto Sel Sw & pilot light



Enclosed Non-Rev. Starter (3 phase)

with 3 pole thermal overload relay

TYPE 12 (steel encl. with hinged door)
Hand-Off-Auto Sel Sw & pilot light
incl. control transformer, add suffix from table



Amp AC3	Horsepower (1ph)		Overload Range	Code #	List \$	Horsepower (3ph)				Code #	List \$
	115/1	230/1				208/3	230/3	460/3	600/3		
9	-	-	.60 - .92	NA	NA	-	-	-	1/2	047X5045	765
	-	-	.85 - 1.3	NA	NA	1/4	1/4	1/2	3/4 - 1	047X5046	
	-	1/6	1.2 - 1.9	047X5028	534	1/3	1/3	3/4 - 1	1.5	047X5047	
	-	1/4	1.8 - 2.8	047X5029		1/2	1/2 - 3/4	1.5	2	047X5048	
	1/6	1/3	2.7 - 4.2	047X5030		3/4 - 1	3/4 - 1	2	3	047X5049	
	1/4	1/2 - 3/4	4.0 - 6.2	047X5031		1.5	1.5 - 2	3	5	047X5050	
	1/3 - 1/2	1	6.0 - 9.2	047X5032		2	3	5	7.5	047X5051	
12	3/4	2	8 - 12	047X5033	545	3	4	7.5	10	047X5052	772
16	1	3	11 - 16	047X5034	572	5	5	10	15	047X5054	792
25	1.5	3	15 - 20	047X5035	621	5	5	15	15	047X5055	839
	2	4	19 - 25	047X5036		7.5	7.5	15	20	047X5056	
30	2	5	24 - 32	047X5037	692	10	10	20	20	047X5057	908
32	3	5	22 - 32	047X5062	944	10	10	20	25	047X5058	1170
37	3	7.5	30 - 45	047X5038	985	15	15	25	30	047X5059	1209
50	3	10	42 - 63	047X5039	1036	15	15	30	40	047X5060	1242

IMPORTANT If using different coil voltage than motor voltage, add proper transformer suffix:

11	110/24V	185
12	240/24V	185

IMPORTANT Add control transformer suffix as follows:

01	600/24	06	460/240
02	600/120	07	240/24
03	600/240	08	240/120
04	460/24	09	208/24
05	460/120	10	208/120



**Enclosed Rev. Starter (1 phase)
with 3 pole thermal
overload relay**

TYPE 1 and 12
(steel encl. with hinged door)



Amp AC3	Horsepower		Overload Range	Stop/Reset (Type 1)		Forward-Reverse Stop/Reset (Type 1)		Forward-Reverse Stop/Reset (Type 12)	
	115/1	230/1		Code #	List \$	Code #	List \$	Code #	List \$
9	-	1/6	1.2 - 1.9	047B5995	548	047B6015	558	047B6035	711
	-	1/4	1.8 - 2.8	047B5996		047B6016		047B6036	
	1/6	1/3	2.7 - 4.2	047B5997		047B6017		047B6037	
	1/4	1/2 - 3/4	4.0 - 6.2	047B5998		047B6018		047B6038	
	1/3 - 1/2	1	6.0 - 9.2	047B5999		047B6019		047B6039	
12	3/4	2	8 - 12	047B6000	564	047B6020	575	047B6040	726
16	1	3	11 - 16	047B6001	624	047B6021	634	047B6041	861
25	1.5	3	15 - 20	047B6002	768	047B6022	780	047B6042	918
	2	4	19 - 25	047B6003		047B6023		047B6043	
30	2	5	24 - 32	047B6004	876	047B6024	886	047B6044	1032
32	2	5	22 - 32	047B5959	1235	047B5960	1246	047B5961	1286
37	2	7.5	30 - 45	047B6005	1314	047B6025	1325	047B6045	1362
50	3	5	42 - 63	047B6006	1440	047B6026	1481	047B6046	1520

IMPORTANT Add coil suffix to code numbers as follows:

14	24V/60
23	110V,50/60
28	208/230,60



**Enclosed Rev.
Starter (3 phase)
with 3 pole thermal
overload relay**

TYPE 1 and 12
(steel encl. with hinged door)



Amps	Horsepower				Overload Range	Stop/Reset (Type 1)		Forward-Reverse Stop/Reset (Type 1)		Forward-Reverse Stop/Reset (Type 12)	
	208V	230V	460V	600V		Code #	List \$	Code #	List \$	Code #	List \$
9	-	-	-	1/2	.60 - .92	047L5366	548	047L5360	558	047B6047	711
	1/4	1/4	1/2	3/4 - 1	.85 - 1.3	047L5367		047L5361		047B6048	
	1/3	1/3	3/4 - 1	1 1/2	1.2 - 1.9	047L5369		047L5363		047B6049	
	1/2	1/2 - 3/4	1 1/2	2	1.8 - 2.8	047L5373		047L5364		047B5728	
	3/4 - 1	3/4 - 1	2	3	2.7 - 4.2	047L5374		047L5356		047B5734	
	1 1/2	1 1/2 - 2	3	5	4.0 - 6.2	047L5385		047B5356		047B5735	
	2	3	5	7 1/2	6.0 - 9.2	047L5357		047B5486		047B6090	
12	3	-	7 1/2	10	8 - 12	047L6007	564	047B6027	575	047B6091	726
16	-	5	10	15	11 - 16	047L6009	624	047B6029	634	047B6093	861
25	5	-	15	-	15 - 20	047L5359	768	047B5488	780	047B6094	918
	-	7 1/2	-	20	19 - 25	047L6010		047B6030		047B6095	
30	7 1/2	-	-	-	24 - 32	047L6011	876	047B6031	886	047B6096	1032
32	-	10	20	25	22 - 32	047L6012	1235	047B6032	1246	047B6097	1286
37	-	15	25	30	30 - 45	047L6013	1314	047B6033	1325	047B6098	1362
50	10	15	30	40	42 - 63	047L6014	1440	047B6034	1481	047B6099	1520

IMPORTANT Add coil suffix to code numbers as follows:

28	208/230V/60
37	460V/60
94	575V/60



Enclosed 2-SPD 2-WDG Starters with 3 pole thermal overload relay

TYPE 1 and 12 (steel enclosure with hinged door) constant or variable torque

Horsepower				TYPE 1				TYPE 12			
				HIGH - LOW		REMOTE		HIGH - LOW		REMOTE	
208/3	230/3	460/3	575/3	Code #	List \$	Code #	List \$	Code #	List \$	Code #	List \$
1.5	2	3	5	047X5312	906	047X5324	883	047X5358	1047	047X5374	1023
2	3	5	7.5	047X5313	918	047X5325	896	047X5359	1059	047X5375	1037
3	4	7.5	10	047X5314	943	047X5326	920	047X5360	1084	047X5376	1061
3	5	10	15	047X5315	997	047X5327	975	047X5361	1138	047X5377	1116
5	7.5	15	20	047X5342	1042	047X5350	1019	047X5362	1183	047X5378	1160
7.5	10	20	25	047X5343	1391	047X5351	1369	047X5363	1452	047X5379	1429
10	15	25	30	047X5344	1479	047X5352	1457	047X5364	1540	047X5380	1517
15	15	30	40	047X5345	1502	047X5353	1480	047X5365	1561	047X5381	1539

CAUTION: Motor FLA at high and low speeds MUST be advised at time of selection.



Enclosed 2-SPD1-WDG Starters with 3 pole thermal overload relay

TYPE 1 and 12 (steel enclosure with hinged door) constant or variable torque

Horsepower				TYPE 1				TYPE 12			
				HIGH - LOW		REMOTE		HIGH - LOW		REMOTE	
208/3	230/3	460/3	575/3	Code #	List \$	Code #	List \$	Code #	List \$	Code #	List \$
1.5	2	3	5	047X5318	962	047X5330	940	047X5366	1075	047X5382	1054
2	3	5	7.5	047X5319	987	047X5331	965	047X5367	1106	047X5383	1084
3	4	7.5	10	047X5320	1042	047X5332	1019	047X5368	1158	047X5384	1136
3	5	10	15	047X5321	1138	047X5333	1116	047X5369	1250	047X5385	1227
5	7.5	15	20	047X5346	1492	047X5354	1470	047X5370	1580	047X5386	1558
7.5	10	20	25	047X5347	1619	047X5355	1595	047X5371	1724	047X5387	1702
10	15	25	30	047X5348	1709	047X5356	1687	047X5372	1800	047X5388	1777
15	15	30	40	047X5349	1724	047X5357	1701	047X5373	1814	047X5389	1790

CAUTION: Motor FLA at high and low speeds MUST be advised at time of selection.

IMPORTANT Add coil suffix to code numbers as follows:

14	24V/60	23	110V,50/60	28	208/230,60	37	460V/60	94	575V/60
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