



TITAN HD[®] TITANICE[®] TITAN MAX[™] TITAN PRO[®]

ELECTRICAL

Small products come with big performance. Designed to perform under stressful conditions these capacitors, relays and contactors pack a punch.



What's inside matters comes to HVACR...

...that's why
replacement



rs when it

y we offer the most innovative
t parts for maximum durability.



TITAN HD® Oval Motor Run Capacitors



Features

- Manufactured to EIA-456A standards
- Up to 60,000 hours operational life
- Aluminum cans filled with soybean based oil
- UL-801 fault current protection
- RoHS compliant
- Approval certifications: UL, cUL, IEC 60252
- Made in USA



Single Section - Oval

Item ID	MFD	Can Size
Titan HD 370 Volt		
POC2A	2	1
POC3A	3	1
POC4A	4	1
POC5A	5	1
POC6A	6	1
POC7.5A	7.5	1
POC10A	10	2
POC12.5A	12.5	2
POC15A	15	3
POC17.5A	17.5	3
POC20A	20	3
POC25A	25	3
POC30A	30	3
POC35A	35	3
POC40A	40	3
POC45A	45	3
POC50A	50	13
POC55A	55	13
POC60A	60	13
POC70A	70	13
POC80A	80	13
Titan HD 440/370 Volt		
POCF2A	2	1
POCF2.5A	2.5	1
POCF3A	3	1
POCF4A	4	1
POCF5A	5	1
POCF6A	6	1
POCF7.5A	7.5	2
POCF10A	10	3
POCF12.5A	12.5	3
POCF15A	15	3
POCF17.5A	17.5	3
POCF20A	20	3
POCF25B	25	3
POCF30A	30	4
POCF35A	35	4
POCF40A	40	13
POCF45A	45	13
POCF50A	50	13
POCF55A	55	13
POCF60A	60	14
POCF70A	70	14
POCF80A	80	14

Dual Section - Oval

Item ID	MFD	Can Size
Titan HD 370 Volt		
POCD55A	5+5	5
POCD1010A	10+10	5
POCD153A	15+3	12
POCD154A	15+4	12
POCD155A	15+5	12
POCD1510A	15+10	12
POCD1755A	17.5+5	12
POCD203A	20+3	5
POCD204A	20+4	12
POCD205A	20+5	12
POCD2010A	20+10	12
POCD2015A	20+15	8
POCD253A	25+3	12
POCD254A	25+4	6
POCD255A	25+5	12
POCD2575A	25+7.5	12
POCD258A	25+8	8
POCD2510A	25+10	12
POCD2515A	25+15	8
POCD303A	30+3	13
POCD305A	30+5	13
POCD3075A	30+7.5	8
POCD3010A	30+10	13
POCD353A	35+3	13
POCD354A	35+4	13
POCD355A	35+5	13
POCD3575A	35+7.5	13
POCD3510A	35+10	13
POCD403A	40+3	13
POCD404A	40+4	9
POCD405A	40+5	13
POCD4075A	40+7.5	13
POCD4010A	40+10	13
POCD455A	45+5	13
POCD4575A	45+7.5	13
POCD4510A	45+10	13
POCD4515A	45+15	13
POCD505A	50+5	13
POCD555A	55+5	14
POCD5575A	55+7.5	14
POCD605A	60+5	14
POCD6075A	60+7.5	14
POCD6010A	60+10	14

Longevity you can count on;
craftsmanship to be proud of.

Can Size	Depth (In.)	Width (In.)	Height (In.)
Can Dimension			
1	1.25	2.00	1.56
2	1.25	2.00	2.19
3	1.25	2.00	2.88
4	1.25	2.00	3.88
5	1.75	2.75	2.38
6	1.75	2.75	2.75
8	1.75	2.75	3.25
9	1.75	2.75	3.75
12	1.75	2.75	2.38
13	1.75	2.75	2.91
14	1.75	2.75	3.91
15	1.75	2.75	4.75
16	1.75	3.54	4.75

Dual Section - Oval

Item ID	MFD	Can Size
Titan HD 440/370 Volt		
POCFD105A	10+5	5
POCFD154A	15+4	5
POCFD155A	15+5	12
POCFD1510A	15+10	6
POCFD205A	20+5	12
POCFD2015A	20+15	13
POCFD255A	25+5	13
POCFD2575A	25+7.5	13
POCFD2510A	25+10	13
POCFD2515A	25+15	9
POCFD304A	30+4	13
POCFD305A	30+5	13
POCFD3075A	30+7.5	13
POCFD3010A	30+10	13
POCFD353A	35+3	13
POCFD354A	35+4	9
POCFD355A	35+5	13
POCFD3575A	35+7.5	13
POCFD3510A	35+10	10
POCFD403A	40+3	11
POCFD405A	40+5	14
POCFD4075A	40+7.5	14
POCFD4010A	40+10	14
POCFD455A	45+5	14
POCFD4575A	45+7.5	14
POCFD505A	50+5	15
POCFD5075A	50+7.5	15
POCFD555A	55+5	15
POCFD5510A	55+10	15
POCFD605A	60+5	15
POCFD6510A	65+10	15
POCFD805A	80+5	16
POCFD8075A	80+7.5	16

Notes:

- Height dimension does not include terminals. Add 1/2" for terminals. Please call when dimensions are critical.

TITAN HD® Round Motor Run Capacitors



Single Section - Round

Item ID	MFD	Can Size
Titan HD 370 Volt		
PRC5A	5	1
PRC7.5A	7.5	1
PRC10A	10	1
PRC12.5A	12.5	1
PRC15A	15	1
PRC17.5A	17.5	1
PRC20A	20	1
PRC25A	25	1
PRC30A	30	1
PRC31.5A	31.5	5
PRC35A	35	3
PRC40A	40	3
PRC45A	45	3
PRC50A	50	4
PRC55A	55	4
PRC60A	60	4
PRC70A	70	8
PRC80A	80	8
PRC100A	100	12
Titan HD 440/370 Volt		
PRCF5A	5	1
PRCF7.5A	7.5	1
PRCF10A	10	1
PRCF12.5A	12.5	1
PRCF15A	15	1
PRCF17.5A	17.5	1
PRCF20A	20	1
PRCF25A	25	3
PRCF30A	30	3
PRCF35A	35	4
PRCF40A	40	4
PRCF45A	45	4
PRCF50A	50	8
PRCF55A	55	8
PRCF60A	60	8
PRCF65A	65	10
PRCF70A	70	10
PRCF75A	75	10
PRCF80A	80	10
PRCF90A	90	15

Can Size	Diameter (In.)	Height (In.)
Can Dimension		
1	1.75	2.38
2	1.75	2.75
3	1.75	2.84
4	1.75	3.84
6	2	2.91
8	2	3.84
10	2	4.75
12	2.5	2.91
15	2.5	3.91
16	2.5	4.25

Dual Section - Round

Item ID	MFD	Can Size
Titan HD 370 Volt		
PRCD253A	25+3	6
PRCD254A	25+4	6
PRCD255A	25+5	6
PRCD303A	30+3	6
PRCD304A	30+4	6
PRCD305A	30+5	6
PRCD3075A	30+7.5	6
PRCD3010A	30+10	6
PRCD353A	35+3	6
PRCD354A	35+4	6
PRCD355A	35+5	6
PRCD3575A	35+7.5	6
PRCD3510A	35+10	6
PRCD403A	40+3	6
PRCD404A	40+4	6
PRCD405A	40+5	6
PRCD4075A	40+7.5	6
PRCD4010A	40+10	6
PRCD453A	45+3	6
PRCD455A	45+5	6
PRCD4575A	45+7.5	6
PRCD4510A	45+10	6
PRCD503A	50+3	6
PRCD505A	50+5	6
PRCD5075A	50+7.5	6
PRCD5010A	50+10	6
PRCD555A	55+5	8
PRCD5575A	55+7.5	8
PRCD5510A	55+10	8
PRCD605A	60+5	8
PRCD6075A	60+7.5	8
PRCD6010A	60+10	8
PRCD805A	80+5	12
PRCD8075A	80+7.5	12
PRCD8010A	80+10	12
PRCD80125A	80+12.5	16

Features

- Manufactured to EIA-456A standards
- Up to 60,000 hours operational life
- Aluminum cans filled with soybean based oil
- UL-801 fault current protection
- RoHS compliant
- Approval certifications: UL, cUL, IEC 60252
- Made in USA

Dual Section - Round

Item ID	MFD	Can Size
Titan HD 440/370 Volt		
PRCFD205A	20+5	6
PRCFD2015A	20+15	6
PRCFD253A	25+3	6
PRCFD255A	25+5	6
PRCFD2575A	25+7.5	6
PRCFD2510A	25+10	6
PRCFD2515A	25+15	6
PRCFD303A	30+3	6
PRCFD304A	30+4	6
PRCFD305A	30+5	6
PRCFD3075A	30+7.5	6
PRCFD353A	35+3	8
PRCFD354A	35+4	8
PRCFD355A	35+5	8
PRCFD356A	35+6	8
PRCFD3575A	35+7.5	8
PRCFD3510A	35+10	8
PRCFD403A	40+3	8
PRCFD404A	40+4	8
PRCFD405A	40+5	8
PRCFD406A	40+6	8
PRCFD4075A	40+7.5	8
PRCFD4010A	40+10	8
PRCFD453A	45+3	8
PRCFD455A	45+5	8
PRCFD456A	45+6	8
PRCFD4575A	45+7.5	8
PRCFD4510A	45+10	8
PRCFD505A	50+5	8
PRCFD5075A	50+7.5	8
PRCFD5010A	50+10	8
PRCFD555A	55+5	12
PRCFD5575A	55+7.5	12
PRCFD5510A	55+10	12
PRCFD605A	60+5	12
PRCFD6075A	60+7.5	12
PRCFD6010A	60+10	12
PRCFD60125A	60+12.5	17
PRCFD705A	70+5	15
PRCFD7075A	70+7.5	15
PRCFD7010A	70+10	15
PRCFD805A	80+5	15
PRCFD8075A	80+7.5	15
PRCFD8010A	80+10	15

Notes:

- Height dimension does not include terminals. Add 1/2" for terminals.
- Please call when dimensions are critical.

TITAN PRO® Motor Run Capacitors



At 60,000 hours of operational life, Titan Pro® Professional Grade Motor Run Capacitors get the job done by outperforming standard motor run capacitors of similar value in the toughest conditions.



Scan to learn more

Oval

Item ID	MFD	Depth (In.)	Width (In.)	Height (In.)	Industry Nos.	
Titan Pro 440/370 Volt - Single Section						
TOCF2	2	1.24	2.03	2.17	12026	12002
TOCF2.5	2.5	1.24	2.03	2.17	12019	—
TOCF3	3	1.24	2.03	2.17	12027	12003
TOCF4	4	1.24	2.03	2.17	12028	12004
TOCF5	5	1.24	2.03	2.17	12029	12005
TOCF6	6	1.24	2.03	2.56	12030	12006
TOCF7.5	7.5	1.24	2.03	2.17	12031	12007
TOCF10	10	1.24	2.03	2.56	12032	12008
TOCF12.5	12.5	1.24	2.03	2.95	12033	12009
TOCF15	15	1.24	2.03	2.95	12034	12010
TOCF17.5	17.5	1.24	2.03	3.74	12036	12012
TOCF20	20	1.77	2.80	2.68	12037	12014
TOCF25	25	1.77	2.80	3.07	12040	12015
TOCF30	30	1.77	2.80	3.46	12041	12017
TOCF35	35	1.77	2.80	3.86	12043	12018
TOCF40	40	1.77	2.80	4.06	12045	12021
TOCF45	45	1.77	2.80	4.45	12048	12023
TOCF50	50	1.77	2.80	4.84	12049	12025
TOCF55	55	1.77	2.80	5.04	12050	12024
TOCF60	60	1.87	3.54	3.78	12051	12087
TOCF65	65	1.87	3.54	3.98		

Titan Pro 480 Volt - Single Section

TOCF25A	25	1.77	2.80	3.66	—	—
---------	----	------	------	------	---	---

Titan Pro 440/370 Volt - Dual Section

TOCFD154	15+4	1.77	2.68	2.36	12270	12056
TOCFD155	15+5	1.77	2.68	2.68	12271	12057
TOCFD2015	20+15	1.77	2.80	3.86	12083	12164
TOCFD255	25+5	1.77	2.80	3.46	12184	12066
TOCFD2575	25+7.5	1.77	2.80	3.46	12182	12143
TOCFD2510	25+10	1.77	2.80	3.86	12183	12167
TOCFD304	30+4	1.77	2.80	3.86	12181	12145
TOCFD305	30+5	1.77	2.80	3.86	12187	12069
TOCFD3075	30+7.5	1.77	2.80	3.86	12038	12146
TOCFD353	35+3	1.77	2.80	4.25	12085	12148
TOCFD354	35+4	1.77	2.80	4.25	12179	12071
TOCFD355	35+5	1.77	2.80	4.25	12185	12072
TOCFD3575	35+7.5	1.77	2.80	4.25	12188	12149
TOCFD405	40+5	1.77	2.80	4.65	12086	12171
TOCFD4075	40+7.5	1.87	3.54	3.78	12189	12152
TOCFD455	45+5	1.77	2.80	5.04	12190	12174
TOCFD505	50+5	1.87	3.54	4.37	12108	12138
TOCFD555	55+5	1.87	3.54	4.57	12275	12154
TOCFD5510	55+10	1.87	3.54	5.16	12276	—
TOCFD605	60+5	1.87	3.54	5.55	12109	12139

440/370 volt

Reduce your inventory costs with a Dual Voltage capacitor

Round

Item ID	MFD	Diameter (In.)	Height (In.)	Industry Nos.	
Titan Pro 440/370 Volt - Single Section					
TRCF3	3	1.77	2.17	12103	12803
TRCF5	5	1.77	2.17	12105	12095
TRCF7.5	7.5	1.77	2.17	12107	12097
TRCF10	10	1.77	2.17	12232	12098
TRCF12.5	12.5	1.77	2.17	12233	12099
TRCF15	15	1.77	2.56	12234	12210
TRCF17.5	17.5	1.77	2.76	12236	12212
TRCF20	20	1.77	2.95	12237	12214
TRCF25	25	1.97	2.95	12240	12215
TRCF30	30	1.97	3.35	12241	12217
TRCF35	35	1.97	3.54	12243	12218
TRCF40	40	1.97	3.94	12245	12221
TRCF45	45	1.97	4.33	12248	12223
TRCF50	50	1.97	4.72	12251	12225
TRCF55	55	1.97	4.92	12252	12226
TRCF60	60	2.17	4.53	12254	12227
TRCF70	70	2.17	4.92	12258	12229
TRCF80	80	2.50	4.72	12259	12199
TRCF100	100	2.50	5.31	—	—

Titan Pro 440/370 Volt - Dual Section

TRCFD205	20+5	1.97	3.74	12115	12260
TRCFD2015	20+15	1.97	3.94	12112	12209
TRCFD255	25+5	1.97	3.54	12278	12261
TRCFD2575	25+7.5	1.97	3.74	12279	12262
TRCFD2515	25+15	1.97	4.33	12114	—
TRCFD303	30+3	1.97	4.33	12126	12244
TRCFD305	30+5	1.97	3.94	12281	12264
TRCFD3075	30+7.5	1.97	4.13	12282	12224
TRCFD353	35+3	2.50	3.74	12077	12082
TRCFD354	35+4	1.97	4.53	12070	12231
TRCFD355	35+5	1.97	4.13	12283	12266
TRCFD3575	35+7.5	2.36	3.54	12284	12235
TRCFD403	40+3	2.50	3.74	12078	12074
TRCFD405	40+5	2.36	3.54	12286	12178
TRCFD4075	40+7.5	2.50	3.74	12287	12268
TRCFD453	45+3	2.50	3.74	12079	12073
TRCFD455	45+5	2.50	3.74	12288	12269
TRCFD4575	45+7.5	2.50	3.74	12289	12249
TRCFD505	50+5	2.50	3.94	12290	12191
TRCFD5075	50+7.5	2.50	3.94	12291	12192
TRCFD50125	50+12.5	2.50	4.16	12253	—
TRCFD555	55+5	2.50	4.13	12292	12193
TRCFD5575	55+7.5	2.36	4.33	12293	12194
TRCFD603	60+3	2.50	4.33	12160	—
TRCFD605	60+5	2.36	4.33	12294	12195
TRCFD6075	60+7.5	2.36	4.53	12295	12196
TRCFD6010	60+10	2.50	4.53	12296	12265
TRCFD705	70+5	2.50	4.92	12255	12053
TRCFD7075	70+7.5	2.50	4.92	12166	12054
TRCFD805	80+5	2.50	5.31	12257	12197
TRCFD8075	80+7.5	2.50	5.12	12216	12198
TRCFD8010	80+10	2.50	5.31	12117	12201

Notes:

- Height dimension does not include terminals. Add 1/2" for terminals.
- Please call when dimensions are critical.

TITAN Pro 370® Motor Run Capacitors

PRO - series: Features & Benefits

RELIABLE.	Tested to 60,000 hours
COMPLIANT.	Built to EIA-456A industry standard for endurance
CERTIFIED.	Meets UL 810 safety standards
TESTED.	100% electrical testing
ROBUST.	Heat tolerant, high-grade metallized polypropylene film and proprietary Epoxidized Soybean Oil (ESO)



Oval

Item ID	MFD	Depth (In.)	Width (In.)	Height (In.)	Industry No
Titan Pro 370 Volt - Single Section					
TOC2	2	1.24	2.03	2.17	12902
TOC3	3	1.24	2.03	2.17	12903
TOC4	4	1.24	2.03	2.17	12904
TOC5	5	1.24	2.03	2.17	12905
TOC5B*	5	1.24	2.03	2.17	12905
TOC6	6	1.24	2.03	2.17	12906
TOC7.5	7.5	1.24	2.03	2.17	12907
TOC7.5B*	7.5	1.24	2.03	2.17	12907
TOC10	10	1.24	2.03	2.56	12908
TOC10B*	10	1.24	2.03	2.56	12908
TOC12.5	12.5	1.24	2.03	2.95	12909
TOC15	15	1.24	2.03	2.95	12910
TOC17.5	17.5	1.24	2.03	3.35	12912
TOC20	20	1.77	2.80	2.68	12914
TOC25	25	1.77	2.80	2.68	12915
TOC30	30	1.77	2.80	2.87	12917
TOC35	35	1.77	2.80	3.27	12918
TOC40	40	1.77	2.80	3.46	12921
TOC45	45	1.77	2.80	3.66	12923
TOC50	50	1.77	2.80	3.86	12925
TOC55	55	1.87	3.54	2.99	12924
TOC60	60	1.77	2.80	4.45	12987
TOC70	70	1.87	3.54	3.39	12989
TOC80	80	1.87	3.54	3.78	12990
Titan Pro 370 Volt - Dual Section					
TOCD55	5+5	1.77	2.80	2.09	—
TOCD1010	10+10	1.77	2.80	2.87	—
TOCD153	15+3	1.77	2.80	2.87	12841
TOCD155	15+5	1.77	2.80	2.68	12957
TOCD255	25+5	1.77	2.80	3.07	12966
TOCD305	30+5	1.77	2.80	3.27	12969
TOCD353	35+3	1.77	2.80	3.46	12848
TOCD355	35+5	1.77	2.80	3.46	12972
TOCD405	40+5	1.77	2.80	3.86	12871
TOCD455	45+5	1.77	2.80	4.25	12874

Notes:

- Height dimension does not include terminals. Add 1/2" for terminals.
- Please call when dimensions are critical.
- * Bulk - in multiples of 100

370 volt offers
best value in class



Capacitor Accessories
See page 419

Round

Item ID	MFD	Diameter (In.)	Height (In.)	Industry No
Titan Pro 370 Volt - Single Section				
TRC5	5	1.77	2.17	12995
TRC7.5	7.5	1.77	2.17	12997
TRC10	10	1.77	2.17	12998
TRC12.5	12.5	1.77	2.76	12999
TRC15	15	1.77	2.76	12710
TRC17.5	17.5	1.77	2.36	12712
TRC20	20	1.77	2.95	12714
TRC25	25	1.77	2.95	12715
TRC30	30	1.97	2.76	12717
TRC35	35	1.97	2.95	12718
TRC40	40	1.97	3.35	12721
TRC45	45	1.97	3.54	12723
TRC50	50	1.97	3.74	12725
TRC55	55	1.97	3.94	12726
TRC60	60	1.97	4.33	12727
TRC65	65	1.97	4.33	12128
TRC70	70	2.50	3.74	12729
TRC80	80	1.97	5.31	12899
TRC100	100	2.50	4.33	—
Titan Pro 370 Volt - Dual Section				
TRCD1010	10+10	1.97	2.56	—
TRCD154	15+4	1.97	2.95	12702
TRCD155	15+5	1.97	2.95	12703
TRCD205	20+5	1.97	3.35	12760
TRCD253	25+3	1.97	2.95	12711
TRCD254	25+4	1.97	2.95	12875
TRCD255	25+5	1.97	3.35	12761
TRCD303	30+3	1.97	3.54	12720
TRCD304	30+4	1.97	3.15	12763
TRCD305	30+5	1.97	3.54	12764
TRCD3075	30+7.5	1.97	3.94	12724
TRCD353	35+3	1.97	3.94	12730
TRCD355	35+5	1.97	3.94	12766
TRCD3575	35+7.5	1.97	4.33	12735
TRCD403	40+3	1.97	4.13	12739
TRCD405	40+5	1.97	4.13	12878
TRCD4075	40+7.5	1.97	4.53	12768
TRCD455	45+5	1.97	3.94	12769
TRCD4575	45+7.5	1.97	4.33	12749
TRCD505	50+5	1.97	4.72	12755
TRCD5075	50+7.5	1.97	4.92	—
TRCD5010	50+10	1.97	4.53	12757
TRCD555	55+5	2.50	3.74	12893
TRCD5575	55+7.5	2.50	3.74	12894
TRCD605	60+5	2.50	4.13	12895
TRCD6075	60+7.5	2.50	4.13	12896
TRCD705	70+5	2.50	4.33	—
TRCD7075	70+7.5	2.50	4.33	—
TRCD7010	70+10	2.50	4.72	12055
TRCD805	80+5	2.50	4.72	12897
TRCD8075	80+7.5	2.50	4.72	—
TRCD8010	80+10	2.50	4.92	—

Packard Start Capacitors

Item ID	MFD	Case Size	Industry No.
Packard 110-125 VAC			
PMJ21	21-25	1	11002
PMJ25	25-30	1	11003
PMJ30	30-36	1	11004
PMJ36	36-43	1	11005
PMJ43	43-53	1	11006
PMJ47	47-56	1	
PMJ56	56-75	1	11007
PMJ64	64-77	1	
PMJ72	72-88	1	11008
PMJ88	88-108	1	11009
PMJ108	108-130	1	11010
PMJ124	124-149	1	11112
PMJ130	130-156	1	11112
PMJ145	145-174	1	11013
PMJ161	161-193	1	11014
PMJ189	189-227	1	11015
PMJ200	200-240	1	11016
PMJ216	216-259	1	11017
PMJ216A	216-259	2	11017
PMJ233	233-280	1	10018
PMJ233A	233-280	2	10018
PMJ243	243-292	1	
PMJ243A	243-292	2	
PMJ270	270-324	1	11019
PMJ270A	270-324	2	11019
PMJ295	295-354	1	
PMJ300	300-360	3	11020
PMJ324	324-388	1	11021
PMJ324A	324-388	4	11021
PMJ324B	324-388	2	11021
PMJ340	340-408	2	11022
PMJ340A	340-408	4	11022
PMJ378	378-455	2	11023
PMJ378A	378-455	4	11023
PMJ400	400-480	2	11024
PMJ400A	400-480	4	11024
PMJ430	430-516	2	
PMJ430A	430-516	4	
PMJ430B	430-516	6	
PMJ460	460-552	2	11025
PMJ460A	460-552	4	11025
PMJ460B	460-552	5	11025
PMJ540	540-648	5	11026
PMJ540A	540-648	4	11026
PMJ590	590-708	5	11027
PMJ590A	590-708	4	11027
PMJ645	645-774	5	
PMJ708	708-850	5	11028
PMJ708A	708-850	7	11028
PMJ708B	708-850	4	11028
PMJ800	800-960	4	
PMJ815	815-978	5	
PMJ829	829-995	5	11029
PMJ829A	829-995	7	11029
PMJ850	850-1020	7	
PMJ860	860-1032	4	
PMJ1000	1000-1200	7	11030
PMJ1290	1290-1548	7	

Notes:
• Please call when dimensions are critical.

Case Size	Diameter (In.)	Height (In.)
Case Dimension		
1	1 7/16	2 3/4
2	1 7/16	3 3/8
3	1 7/16	4 3/8
4	1 13/16	3 3/8
5	1 13/16	4 3/8
6	2 1/16	3 3/8
7	2 1/16	4 3/8
8	2 9/16	4 3/8

Item ID	MFD	Case Size	Industry No.
Packard 165 VAC			
PSMJ72	72-88	1	
PSMJ88	88-108	1	
PSMJ108	108-130	1	
PSMJ124	124-149	1	11031
PSMJ130	130-156	2	
PSMJ145	145-174	2	11032
PSMJ161	161-193	2	11033
PSMJ189	189-227	2	11034
PSMJ216	216-259	4	
PSMJ233	233-280	4	11035
PSMJ243	243-292	4	
PSMJ270	270-324	4	11036
PSMJ340	340-408	4	
PSMJ378A	378-455	5	
PSMJ400	400-480	4	11037
PSMJ540	540-648	4	
PSMJ710	710-850	6	
PSMJ710A	710-850	7	
PSMJ810A	810-972	7	

Item ID	MFD	Case Size	Industry No.
Packard 330 VAC			
PRMJ21	21-25	2	11055
PRMJ25	25-30	2	11056
PRMJ30	30-36	2	11057
PRMJ36	36-43	2	11058
PRMJ43	43-53	4	11059
PRMJ47	47-56	4	
PRMJ56	53-64	4	11060
PRMJ64	64-77	4	
PRMJ72	72-88	4	11061
PRMJ72A	72-88	6	11061
PRMJ72R	72-88	4	
PRMJ88	88-108	6	11062
PRMJ108	108-130	7	11063
PRMJ108A	108-130	6	11063
PRMJ124	124-149	7	11165
PRMJ130	130-158	7	11064
PRMJ135	135-162	7	
PRMJ145	145-174	7	11066
PRMJ145A	145-174	8	11066
PRMJ161	161-193	7	10067
PRMJ189	189-227	7	11068
PRMJ189A	189-227	8	11068
PRMJ216	216-259	8	11069
PRMJ216A	216-259	7	11069
PRMJ243	243-292	6	
PRMJ270	270-324	8	11070
PRMJ300	300-360	8	



Features

- Dry, electrolytic, non polarized capacitors for intermittent duty in AC motor starting circuits
- Cases are made of moisture and oil resistant molded phenolic resin or plastic
- Standard dual blade terminals
- Operating temperature range: -40°C to 65°C (-40°F to 149°F)
- UL and cUL recognized
- Rated 3-second start
- 20 Starts per hour
- 50/60 Hertz

Item ID	MFD	Case Size	Industry No.
Packard 220-250 VAC			
PTMJ21	21-25	1	11038
PTMJ25	25-30	1	11039
PTMJ30	30-36	1	11040
PTMJ36	36-43	1	11041
PTMJ43	43-53	1	11042
PTMJ43A	43-53	2	11042
PTMJ47	47-56	1	
PTMJ53	53-64	2	
PTMJ56	53-64	1	11043
PTMJ56A	56-72	1	11043
PTMJ59	59-71	6	
PTMJ64	64-77	1	
PTMJ64A	64-77	2	
PTMJ72	72-88	4	11044
PTMJ86	86-108	6	
PTMJ88	88-108	4	11045
PTMJ105	105-126	6	
PTMJ108	108-130	4	11046
PTMJ124	124-149	5	11148
PTMJ124A	124-149	4	11148
PTMJ130	130-158	4	
PTMJ130A	130-158	5	
PTMJ145	145-174	4	11049
PTMJ145A	145-174	6	11049
PTMJ161	161-193	6	11050
PTMJ161A	161-193	5	11050
PTMJ189	189-227	6	11051
PTMJ189A	189-227	7	11051
PTMJ216	216-259	6	11052
PTMJ216A	216-259	7	11052
PTMJ233	233-280	6	11053
PTMJ233A	233-280	7	10053
PTMJ243	243-292	6	
PTMJ270	270-324	6	11054
PTMJ270A	270-324	7	11054
PTMJ280	280-336	7	
PTMJ284	284-333	8	
PTMJ320	320-384	7	
PTMJ340	340-408	7	
PTMJ378	378-455	8	
PTMJ400	400-480	7	
PTMJ400A	400-480	8	
PTMJ430	430-516	8	
PTMJ630	630-750	8	

Packard Start Capacitors With Resistors



Features

- Most popular Start Capacitor with resistors to use in Compressor applications
- Includes 15,000 OHM resistor
- Dry, electrolytic, non polarized capacitors for intermittent duty in AC motor starting circuits
- Cases are made of moisture and oil resistant molded phenolic resin or plastic
- Standard dual blade terminals
- Operating temperature range: -40°C to 65°C (-40°F to 149°F)
- UL and cUL recognized
- Rated 3-second start
- 20 Starts per hour
- 50/60 Hertz

Item ID	MFD	Voltage	Case Size
Packard			
PSMJ243R	243-292	165	4
PSMJ270R	270-324	165	4
PTMJ88R	88-108	220-250	4
PTMJ145R	145-174	220-250	4
PTMJ161R	161-193	220-250	6
PTMJ189R	189-227	220-250	6
PRMJ72R	72-88	330	4
PRMJ88R	88-108	330	6
PRMJ108R	108-130	330	4
PRMJ145R	145-174	330	7
PRMJ216R	216-259	330	8
PRMJ270R	270-324	330	8

Notes:

- Please call when dimensions are critical.

Packard Dry AC Motor Run Capacitors



Features

- Commonly used on motors in fans, pumps and blowers
- Constructed with Self-Healing Dielectric Metalized Polypropylene Film
- 1/4 inch blade quick connect terminals; Metal tab mounting bracket
- Operating temperature range: -40°C to 85°C (-40°F to 185°F)
- Capacitance tolerance: +/-5%
- Protected 10,000 AFC
- Available in 370 and 440 Volt
- 50/60 Hertz
- Plastic ABS case
- RoHS compliant

Item ID	MFD	VAC	Hertz	Shape	Height (In.)	Length (In.)	Width (In.)	Weight (Lbs)	Terminals	Temp. Range (C)	Construction	For Use With
Packard												
PDC2	2	370	50/60	Rectangle	1.80	0.79	1.50	0.05	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC3	3	370	50/60	Rectangle	1.80	0.79	1.50	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC4	4	370	50/60	Rectangle	2.00	0.94	2.00	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC5	5	370	50/60	Rectangle	2.00	0.94	2.00	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC7.5	7.5	370	50/60	Rectangle	2.20	1.10	1.92	0.09	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC8	8	370	50/60	Rectangle	2.20	1.10	1.92	0.09	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC10	10	370	50/60	Rectangle	2.44	1.25	2.36	0.10	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC12.5	12.5	370	50/60	Rectangle	2.44	1.25	2.36	0.12	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC15	15	370	50/60	Rectangle	2.44	1.25	2.36	0.13	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF2	2	440	50/60	Rectangle	1.80	0.79	1.50	0.05	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF3	3	440	50/60	Rectangle	1.80	0.79	1.50	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF4	4	440	50/60	Rectangle	2.00	0.94	2.00	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF5	5	440	50/60	Rectangle	2.00	0.94	2.00	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF7.5	7.5	440	50/60	Rectangle	2.20	1.10	1.92	0.09	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF8	8	440	50/60	Rectangle	2.20	1.10	1.92	0.09	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF10	10	440	50/60	Rectangle	2.44	1.25	2.36	0.11	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF12.5	12.5	440	50/60	Rectangle	2.44	1.25	2.36	0.12	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF15	15	440	50/60	Rectangle	2.44	1.25	2.36	0.14	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors

Packard Mini-Split Dry Cell Capacitors

Features

- Specifically designed for Mini-Splits and other equipment with confined space
- Constructed with Self-Healing Dielectric Metallized Polypropylene Film
- 2 - 1/4 inch QC terminals
- Plastic mounting foot
- Temperature range: -40°C to 85°C (-40°F to 185°F)
- Capacitance tolerance: +/- 5%
- Protected 10,000 AFC
- RoHS compliant



Item ID	MFD	VAC	Hertz	Height (In.)	Length (In.)	Width (In.)	Weight (Lbs.)
Packard							
PMSCF1	1	450	50/60	1.10	1.46	0.55	0.06
PMSCF1.5	1.5	450	50/60	1.10	1.46	0.55	0.06
PMSCF2	2	450	50/60	1.22	1.50	0.75	0.07
PMSCF2.5	2.5	450	50/60	1.22	1.50	0.75	0.07
PMSCF3	3	450	50/60	1.22	1.50	0.75	0.08
PMSCF3.5	3.5	450	50/60	1.34	1.46	0.87	0.10
PMSCF4	4	450	50/60	1.34	1.46	0.87	0.11
PMSCF5	5	450	50/60	1.34	1.85	0.87	0.12
PMSCF6	6	450	50/60	1.34	1.85	0.87	0.13

Lighting Capacitors: Oil-Filled And Dry AC Film For HID Lighting Applications

Applications

- High Intensity Discharge (HID) lighting applications
- Other high voltage ballast applications

Features - Oil-filled AC Film Capacitor

- Constructed with specially formulated metallized polypropylene film
- Designed to operate in the high temperature environments found in typical HID lighting fixtures
- Endsprayed with zinc
- Manufactured to EIA-456A
- ROHS compliant

- Epoxidized Soybean Oil (ESO) filled
- Round and oval metal case
- Voltage ranges from 330 VAC to 525 VAC
- Operating temperature to 90°C



Oil-Filled AC Film

Item ID	MFD	Volts	Hertz	Shape	Diameter (In.)	Height (In.)	Width (In.)	Depth (In.)
Packard Oil-Filled AC Film								
PLC024400W	24	400	50/60	Oval	—	3.13	2.75	1.75
PLCR24400W	24	400	50/60	Round	1.75	3.75	—	—
PLC024480W	24	480	50/60	Oval	—	3.88	2.75	1.75
PLC026525W	26	525	50/60	Oval	—	4.25	2.75	1.75

Applications

- High Intensity Discharge (HID) lighting applications
- Other high voltage ballast applications

Features - Dry AC Film Capacitor

- Constructed with specially formulated metallized polypropylene film
- Designed to operate in the high temperature environments found in typical HID lighting fixtures
- Endsprayed with zinc
- Manufactured to EIA-456A
- ROHS compliant

- Filled with epoxy
- Round plastic case
- Voltage ranges from 240 VAC to 400 VAC
- Operating temperature to 105°C
- 8 inch, 18 AWG standard copper wire leads



Dry AC Film

Item ID	MFD	Volts	Hertz	Shape	Diameter (In.)	Height (In.)	Width (In.)	Depth (In.)
Packard Dry AC Film								
PLCR10330D	10	330	50/60	Round	1.58	2.68	—	—
PLCR10400D	10	400	50/60	Round	1.58	3.62	—	—
PLCR15400D	15	400	50/60	Round	1.58	3.62	—	—
PLCR24400D	24	400	50/60	Round	1.77	4.61	—	—

Two Wire Electro-mechanical Voltage Sensing Relay



Features

- Potential relay and start capacitor for compressor hard start applications
- More reliable than PTC type hard starts
- Two wire connection
- For use with Hermetic or Scroll compressors
- Quick connect terminals
- Bleed down resistor to safely discharge the capacitor

Item ID	Capacitor Size (μF)	Tons	Compressor	Pick-Up Voltage (VAC)	Maximum Coil Voltage (VAC)	Replaces
TorQstart						
TQS1	189-227	1.5 - 3	Recip and Scroll	239-268	502	TO-5, SK3W3
TQS2	270-324	3.5 - 5	Recip and Scroll	280-315	502	KS1, SK3W6S

Hard Start Kits And All In One Hard Start Packs



Standard PTC Relay and Hard Start Capacitor



Features

- Increases compressor starting torque for faster recycling
- For all permanent split capacitor, single phase air conditioning and heat pump systems
- Wired with "Piggy-Back" terminals for easy installation on run capacitors
- Designed for 115 volt thru 277 volt systems
- Mounts easily with either screw or clip

Item ID	Operating Voltage (VAC)	Recommended range (HP)	Increase in Torque (%)	Replaces
TorQstart Hard Start				
TQS5	115-277	1/2 to 10	300%	32701 600-057 SPP5
TQS6	115-277	1/2 to 10	500%	32702 600-052 SPP6
TQS8	115-277	1/2 to 10	600%	32708 SPP7S



All Purpose 3-N-1 Kit



Features

- Combination relay, overload and capacitor
- Pre-wired for easy installation
- Extra long compressor leads for mounting flexibility
- All models adapt to 115 volt compressors with external overload protector

Item ID	Compressor Sizes	Volts	Replaces
TorQstart 3-N-1 Kit			
TQS21	1/2 HP	115	600-210 RC0210
TQS41	1/4 and 1/3 HP	115	600-410 RC0410
TQS81	1/12 thru 1/5 HP	115	600-810 RC0810

ARC SUPPRESSION TECHNOLOGIES

NEW **NOsparc®** ARC SUPPRESSION TECHNOLOGY!

Knock out 99.9% of the damaging arc energy that occurs in contactors!

NOsparc® Arc Suppressors virtually eliminate:

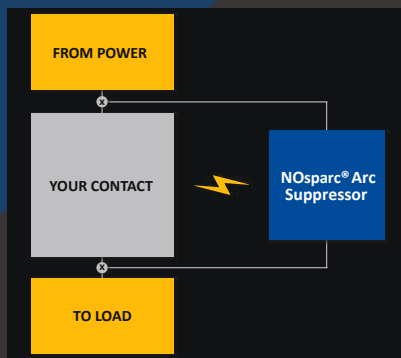
- Contact point scarring
- Single phasing compressor motors
- Tripped breakers in air conditioning racks



MGXDC1F250 | 12-250V
DC NOsparc® Arc Suppressor

Single Phase: GGXAC1F480 | 110-480V
AC NOsparc® Arc Suppressor

Three Phase: 3P-GGXAC1F480 | 110-480V
AC NOsparc® Arc Suppressor



NOsparc® AC | DC Arc Suppressors support the following AC | DC power load categories

AC POWER LOAD

Ballast • Capacitive • General Purpose
Heater • Inductive • Motor
Pilot Duty • Resistive • Tungsten

DC POWER LOAD

General Purpose • Inductive
Resistive • Motor • Capacitive • Tungsten

N0sparc Arc Suppressors



Features

- Extends Contact Life 10X or More**

 - Reduced maintenance, repair and replacement costs
 - Dramatic reduction in total cost of ownership

Small Footprint

 - Easily adapted to existing infrastructure
 - Quick and simple panel mount retrofit process
 - Minimal impact to design due to size of the hardware solution

Green

 - RoHS compliant
 - Reduced carbon footprint and greenhouse gasses
- Low Power**

 - Improves contact switching transition efficiency 20x

Only 2 Wires

 - No external power required
 - No special or complicated assembly requirements or associated connections to auxiliary equipment

Lower EMI

 - Average 30dB reduction of EMI over 30MHz to 1GHz range



Features

- Up to 480 Vac
- Circuit fuse rating of 100 A (resistive) and absolute maximum current rating of 235 A(rms)*
- Panel mount
- UL recognized component

Item ID	Volts (AC)	Hertz	Phase
AC N0sparc Arc Suppressor			
GGXAC1F480	110-480	50/60	Single



Features

- Up to 480 Vac
- Circuit fuse rating of 100 A (resistive) and absolute maximum current rating of 235 A(rms)*
- Panel mount
- 3-phase configuration pre-assembled on DIN clips
- UL recognized component

Item ID	Volts (AC)	Hertz	Phase
AC N0sparc Arc Suppressor			
3P-GGXAC1F480	110-480	50/60	Three



Features

- Up to 250 Vac
- Circuit fuse rating of 50 A (resistive) and absolute maximum current rating of 75 A(rms)*
- Panel mount
- UL recognized component

Item ID	Volts (DC)	Hertz	Phase
DC N0sparc Arc Suppressor			
MGXDC1F250	12-250	50/60	Single

IMPORTANT: The absolute maximum current rating for N0sparc arc suppressors also represents the maximum allowable Locked Rotor Amperage (LRA) for motor loads and the cold filament inrush current for tungsten loads.

Definite Purpose Contactors



Features

Contactors meet UL508 specifications for devices up to 600 Vac.

- 50/60 Hertz •
- Coils have class B insulation
- Includes lugs, spade terminals and covers
- All single pole include shunt



Item ID	Poles	F/L Inductive Amps	Locked Rotor Amps 240/480/600	Resistive Amps	Coil Voltage
Packard 1 Pole					
C125A	1+	25	150/125/100	30	24
C125B	1+	25	150/125/100	30	120
C125C	1+	25	150/125/100	30	208/240
C130A	1+	30	180/150/120	40	24
C130B	1+	30	180/150/120	40	120
C130C	1+	30	180/150/120	40	208/240
C140A	1+	40	240/200/160	50	24
C140B	1+	40	240/200/160	50	120
C140C	1+	40	240/200/160	50	208/240
Packard 2 Pole					
C220A	2	20	120/100/80	30	24
C220B	2	20	120/100/80	30	120
C220C	2	20	120/100/80	30	208/240
C225A	2	25	150/125/100	35	24
C225B	2	25	150/125/100	35	120
C225C	2	25	150/125/100	35	208/240
C230A	2	30	180/150/120	40	24
C230B	2	30	180/150/120	40	120
C230C	2	30	180/150/120	40	208/240
C230D*	2	30	180/150/120	40	208/240
C230E	2	30	180/150/120	40	277
C240A	2	40	240/200/160	50	24
C240B	2	40	240/200/160	50	120
C240C	2	40	240/200/160	50	208/240
C240E	2	40	240/200/160	50	277

Item ID	Poles	F/L Inductive Amps	Locked Rotor Amps 240/480/600	Resistive Amps	Coil Voltage	Aux. Switch
Packard 3 Pole						
C325A	3	25	150/125/100	35	24	AC3
C325B	3	25	150/125/100	35	120	AC3
C325C	3	25	150/125/100	35	208/240	AC3
C330A	3	30	180/150/120	40	24	AC3, P6S, P7S
C330B	3	30	180/150/120	40	120	AC3, P6S, P7S
C330C	3	30	180/150/120	40	208/240	AC3, P6S, P7S
C330E	3	30	180/150/120	40	277	AC3, P6S, P7S
C330F	3	30	180/150/120	40	480	AC3, P6S, P7S
C340A	3	40	240/200/160	50	24	AC3, P6S, P7S
C340B	3	40	240/200/160	50	120	AC3, P6S, P7S
C340C	3	40	240/200/160	50	208/240	AC3, P6S, P7S
C340E	3	40	240/200/160	50	277	AC3, P6S, P7S
C340F	3	40	240/200/160	50	480	AC3, P6S, P7S
C350A	3	50	300/250/200	65	24	P8S, P38K
C350B	3	50	300/250/200	65	120	P8S, P38K
C350C	3	50	300/250/200	65	208/240	P8S, P38K
C350F	3	50	300/250/200	65	480	P8S, P38K
C360A	3	60	360/300/240	75	24	P8S, P38K
C360B	3	60	360/300/240	75	120	P8S, P38K
C360C	3	60	360/300/240	75	208/240	P8S, P38K
C360F	3	60	360/300/240	75	480	P8S, P38K
C375A	3	75	450/375/300	90	24	P9S
C375B	3	75	450/375/300	90	120	P9S
C375C	3	75	450/375/300	90	208/240	P9S
C390A	3	90	540/450/360	120	24	P9S
C390B	3	90	540/450/360	120	120	P9S
C390C	3	90	540/450/360	120	208/240	P9S
Packard 4 Pole						
C430A	4	30	180/150/120	40	24	AC3, P6S, P7S
C430B	4	30	180/150/120	40	120	AC3, P6S, P7S
C430C	4	30	180/150/120	40	208/240	AC3, P6S, P7S
C430F	4	30	180/150/120	40	480	AC3, P6S, P7S
C440A	4	40	240/200/160	50	24	AC3, P6S, P7S
C440B	4	40	240/200/160	50	120	AC3, P6S, P7S
C440C	4	40	240/200/160	50	208/240	AC3, P6S, P7S
C440F	4	40	240/200/160	50	480	AC3, P6S, P7S

Notes:

* Spade terminals and cover only.
Auxiliary Switches sold separately. See page 226.

Magnetic Contactor



Item ID	C18001
Type	DPST N.O.
Resistive Amps	30
Full Load Amps	30
Locked Rotor Amps	120
Coil Voltage	24
Hertz	50/60
Max. Surrounding Air Temp.	40°C
Phase	Single

Replaces

3ARR8E4 90-230	MC11 R850B1146	18001
-------------------	-------------------	-------

DP Contactor



Item ID	PR4013
F/L Inductive Amps	30
Poles	1
Resistive Amps	40
Coil Voltage	24

Replaces

DP1030A5013

Maximum dependability in a "one for one" replacement for the Furnas DP contactor and many more.



Features

- **MEETS THE ARI 780/790 STANDARD**
- Universal metal mounting plate allows for complete ease of replacement
- Long electrical life; tested to 250,000 cycles
- Reliable mechanical life; tested to 1,000,000 cycles
- EE magnet assembly assures optimal performance without sacrificing power consumption
- Superior copper coil
- Performance unaffected by mounting position
- Flexible termination options suitable for various applications
- Dust-free internal construction
- Removable contact inspection plate

Item ID	F/L Inductive Amps	Locked Rotor Amps 240/480/600	Resistive Amps	Coil Voltage	Industry No.	Furnas Replacement	Accepts Aux. Switch
Titan Max 1 Pole							
TMX125A2	25	150/125/100	35	24	61315	45DG10AJA	
TMX125B2	25	150/125/100	35	120	61316	45DG10AFA	
TMX125C2	25	150/125/100	35	208/240	61317	45DG10AGA	
TMX130A2	30	180/150/120	40	24	61320	45EG10AJA	45EG10AJAL
TMX130B2	30	180/150/120	40	120	61321	45EG10AFA	45EG10AFAL
TMX130C2	30	180/150/120	40	208/240	61322	45EG10AGA	45EG10AGAL
TMX140A2	40	240/200/160	50	24	61330	45GG10AJA	45GG10AJAL
TMX140B2	40	240/200/160	50	120	—	45GG10AFA	45GG10AFAL
TMX140C2	40	240/200/160	50	208/240	—	45GG10AGA	45GG10AGAL
Titan Max 2 Pole							
TMX225A2	25	150/125/100	35	24	61410	42AF15AJ	45DG20AJ
TMX225B2	25	150/125/100	35	120	61411	42AF15AF	45DG20AF
TMX225C2	25	150/125/100	35	208/240	61412	42AF15AG	45DG20AG
TMX230A2	30	180/150/120	40	24	61425	42BF15AJ	45EG20AJ 45EG20AJL
TMX230B2	30	180/150/120	40	120	61426	42BF15AF	45EG20AF 45EG20AFL
TMX230C2	30	180/150/120	40	208/240	61427	42BF15AG	45EG20AG 45EG20AGL
TMX240A2	40	240/200/160	50	24	61440	42CF15AJ	45GG20AJ 45GG20AJL
TMX240B2	40	240/200/160	50	120	61441	42CF15AF	45GG20AFL
TMX240C2	40	240/200/160	50	208/240	61442	42CF15AG	45GG20AG 45GG20AGL
Titan Max 3 Pole							
TMX330A2	30	180/150/120	40	24	61430	42BF35AJ	Yes
TMX330B2	30	180/150/120	40	120	61431	42BF35AF	Yes
TMX330C2	30	180/150/120	40	208/240	61432	42BF35AG	Yes
TMX340A2	40	240/200/160	50	24	61445	42CF35AJ	Yes
TMX340B2	40	240/200/160	50	120	61446	42CF35AF	Yes
TMX340C2	40	240/200/160	50	208/240	61447	42CF35AG	Yes
TMX350A2	50	300/250/200	65	24	61460	42DF35AJ	Yes
TMX350B2	50	300/250/200	65	120	61461	42DF35AF	Yes
TMX350C2	50	300/250/200	65	208/240	61462	42DF35AG	Yes
TMX360A2	60	360/300/240	75	24	61470	42EF35AJ	Yes
TMX360B2	60	360/300/240	75	120	61471	42EF35AF	Yes
TMX360C2	60	360/300/240	75	208/240	61472	42EF35AG	Yes
TMX375A2	75	450/375/300	90	24	61480	42FE35AJ106	Yes
TMX375B2	75	450/375/300	90	120	61481	42FE35AF106	Yes
TMX375C2	75	450/375/300	90	208/240	61482	42FE35AG106	Yes
TMX390A2	90	540/450/360	120	24	61490	42GE35AJ106	Yes
TMX390B2	90	540/450/360	120	120	61491	42GE35AF106	Yes
TMX390C2	90	540/450/360	120	208/240	61492	42GE35AG106	Yes

TITAN MAX 4 Pole



Maximum dependability in a "one for one" replacement for the Furnas DP contactor and many more.

Features

- **MEETS THE ARI 780/790 STANDARD**
- Universal metal mounting plate allows for complete ease of replacement
- Long electrical life; tested to 250,000 cycles
- Reliable mechanical life; tested to 1,000,000 cycles
- EE magnet assembly assures optimal performance without sacrificing power consumption
- Superior copper coil
- Performance unaffected by mounting position
- Flexible termination options suitable for various applications
- Dust-free internal construction
- Removable contact inspection plate

Item ID	F/L Inductive Amps	Locked Rotor Amps 240/480/600	Resistive Amps	Coil Voltage	Furnas Replacement
TITAN MAX					
TMX430A2	30	180/150/120	40	24	42BF25AJ
TMX430B2	30	180/150/120	40	120	42BF25AF
TMX430C2	30	180/150/120	40	208-240	42BF25AG
TMX440A2	40	240/200/160	50	24	42CF25AJ
TMX440B2	40	240/200/160	50	120	42CF25AF
TMX440C2	40	240/200/160	50	208-240	42CF25AG

Replacement Coils For Packard Contactors

3 Pole Contactor Replacement Coils



Item ID	Poles	Coil Voltage	Full Load Amps
Packard 3 Pole			
C32040A	3	24	20-40
C32040B	3	120	20-40
C32040C	3	208/240	20-40
C32040D	3	277	20-40
C32040E	3	480	20-40

Item ID	Poles	Coil Voltage	Full Load Amps
Packard 3 Pole			
C35060A	3	24	50-60
C35060B	3	120	50-60
C35060C	3	208/240	50-60
C35060D	3	277	50-60
C35060E	3	480	50-60



Item ID	Poles	Coil Voltage	Full Load Amps
Packard 3 Pole			
C37590B	3	120	75-90
C37590C	3	208/240	75-90

4 Pole Contactor Replacement Coils



Item ID	Poles	Coil Voltage	Full Load Amps
Packard 4 Pole			
C42040A	4	24	20-40
C42040B	4	120	20-40
C42040C	4	208/240	20-40
C42040D	4	277	20-40

Replacement Coils For TITAN MAX Contactors

3 Pole Contactor Replacement Coils



Item ID	Poles	Coil Voltage	Full Load Amps
TITAN MAX 3 Pole			
TMXC32040A	3	24	20-40
TMXC32040B	3	120	20-40
TMXC32040C	3	208/240	20-40
TMXC35060A	3	24	50-60
TMXC35060B	3	120	50-60
TMXC35060C	3	208/240	50-60



Item ID	Poles	Coil Voltage	Full Load Amps
TITAN MAX 3 Pole			
TMXC37590B	3	120	75-90
TMXC37590C	3	208/240	75-90

Auxiliary Switches For Packard Contactors



Item ID	Type	Use With
Packard		
P6S	SPDT	25-40 Amp 3 & 4 Pole



Item ID	Type	Use With
Packard		
P8S	SPDT	50-60 Amp 3 & 4 Pole
P9S	SPDT	70-90 Amp 3 & 4 Pole



Item ID	Type	Use With
Packard		
MI1	Mechanical Interlock	25-40 Amp 3 & 4 Pole



Item ID	Type	Use With
Packard		
P7S	DPDT	25-40 Amp 3 & 4 Pole



Item ID	Type	Use With
Packard		
AC4	1 SPDT	50-60 Amp 3 & 4 Pole



Item ID	Type	Use With
Packard		
AC3	NO/NC	25-40 Amp 3 & 4 Pole



Item ID	Type
Packard	
P38K	Includes P8S and AC3

Auxiliary Switches and Contacts For TITAN MAX Contactors



Features

- Mounts on 75 & 90 Amp Titan Max brand contactors
- Single screw mounting
- Switches when contactor coil is energized
- Choice of NC, NO, or SPDT



Item ID	Type
TITAN MAX Auxiliary Switch	
TMX7590SPDT	Single Pole Double Throw



Item ID	Type
TITAN MAX Auxiliary Contacts	
TMX7590NC	Normally Closed
TMX7590NO	Normally Open

Features

- For use on Titan Max 3 and 4 pole contactors 30-60 amp.



Item ID	Type
TITAN MAX Auxiliary Contact Blocks with Quick Connect	
TMX1NC	SPST NC
TMX1NO	SPST NO
TMX2NC	DPST NC
TMX2NO	DPST NO
TMX1NC/1NO	DPST 1NC + 1NO



Item ID	Type
TITAN MAX Microswitch Blocks	
TMXSPDT1	SPDT at left position
TMXSPDT2	SPDT at right position
TMX2SPDT	DPDT

DISCONNECTS - METALLIC

Features

- Non-Fused Pullout
- Rated NEMA 3R for outdoor use
- Line, load, and ground terminals aligned for easy hook up with heavy wires
- Full dead front
- Knockouts accommodate three sizes (1/2", 3/4", and 1")

- Rear, bottom and side entry knockouts
- Heavy gage steel case
- Large internal wiring space
- Individually wrapped in boxes of 6
- Folding pivot locking tab

NEW



Item ID	Description	Fused
PACKARD		
PD60NF	60 Amp Non Fused Metal	NO
PD30F	30 Amp Fused Metal	YES
PD60F	30 Amp Fused Metal	YES

Dimensions (LxWxH): 8.77 x 5.45 x 3.18

DISCONNECTS - NON-METALLIC

Features

- Amperage Rating: 30 and 60A
- Rated NEMA 3R for outdoor use
- Non-fused pullout
- Standard 1/4" head screw on dead front
- Great for salt air regions
- Plastic non-metallic enclosures have a single unit door and protective shield for installer convenience

- Plastic non-metallic enclosures are durable and provide excellent weather resistance
- Rear, bottom and side entry knockouts
- Individually wrapped in boxes of 6

NEW



Item ID	Description	Fused
PACKARD		
PD-NM-60NF	60 Amp Non Fused Plastic	NO
PD-NM-30F	30 Amp Fused Plastic	YES
PD-NM-60F	30 Amp Fused Plastic	YES

Dimensions (LxWxH): 8.81 x 6.26 x 4.39

Air Conditioning Disconnect

Features

- 60 amp A/C disconnect box
- Outdoor enclosure
- Metal
- Non-fused
- 240 VAC
- Single phase
- Flip top door
- Nema type 3R

Item ID	Description	Fused	Replaces
PACKARD			
PDB60NF	60 Amp A/C disconnect box	NO	DDS-60U MA-Line MA-NFD60A 83315 Square D 755-60NF



Mini-Split Kit

Features

- Non-metallic electrical whip ½" x 4'
- Disconnect 60 Amp non-fused metallic
 - Non-fused pullout
 - Rated NEMA 3R for outdoor use
 - Line, load, and ground terminals aligned for easy hook up with heavy wires
 - Full dead front
 - Rear, bottom and side entry knockouts
 - Heavy gage steel case
 - Large internal wiring space
- Surge protector ICM516
 - Type 2 surge protective device
 - Easy installation
 - Protects against: lightning power surges, voltage surges from A/C, generators, motors
 - Limited lifetime protection warranty service voltage: 120-240 VAC, single-phase
 - Maximum surge current: 100,000 Amps
 - Maximum energy dissipation: 1,020 Joules
 - Installation point: electrical panel, electrical disconnect
 - AC protection modes: line-line, line-ground
- Wall sleeve and fitting



**QUICK
START
KIT!**

NEW

Item ID	Description
Packard	
MSK001	Mini Split Kit

Packard Whips

Applications

- Commonly used for connecting air conditioners, pumps, motors, compressors, swimming pool equipment and similar equipment

Features

- 600 volt; Intended for 208/240/480 volt single phase circuits
- 12" conductor leads with 1/2" insulation stripped
- Stranded copper THHN/THWN insulated singles; Green insulated copper grounding conductor
- Highly flexible non-metallic conduit with factory installed conductors
- Liquid tight flexible non-metallic conduit type B (LFNC-B) fittings for easy and hassle-free hook-ups
- Straight connector on one end and 90 degree connector on the other end
- Non-metallic raceway is non-conducting and resistant to rust, cracks, and separation
- Completely assembled delivered from the factory ready to install



For information on connections contact Packard Customer Service.

Item ID	Trade Size (In.)	Conduit Length (feet)	Wire Size # of Cond.	Amps
Packard				
PW1204	1/2	4	#10 GA	30
PW1206	1/2	6	#10 AWG	30
PW3484	3/4	4	#8 GA	40
PW3486	3/4	6	#8 AWG	40

Color Coding	
No. of conductors	Color sequence 120/208Y
2	black, red
Grounding Conductor	green

Class CC - CCMR Series



Description

The CCMR series is ideal for space saving protection of motors up to 40 hp*. It was designed specifically to withstand sustained starting currents of small motors. The CCMR 60 fuse is the smallest 60 A fuse available rated at 600 V. Compared to other UL Listed fuses, Class CC fuses are the most current-limiting, rating for rating.

Features

- POWR-PRO® Performance
- Extremely current-limiting
- Ratings up to 60 Amps
- 300 kA interrupting rating (self-certified)

Applications

- Motor and motor branch circuit protection

Specifications

Voltage Rating

AC: 600 V
 DC: 250 V (CCMR 2/10 – 2 A)
 (CCMR 4 1/2 – 10 A)
 (CCMR 35– 60 A)
 300 V (CCMR 2 1/4 – 4 A)
 500 V (CCMR 12– 30 A)

Amperage Rating

Interrupting Rating

2/10 – 60 A
 AC: 200 kA rms symmetrical
 300 kA Littelfuse self-certified
 DC: 20kA

Approvals

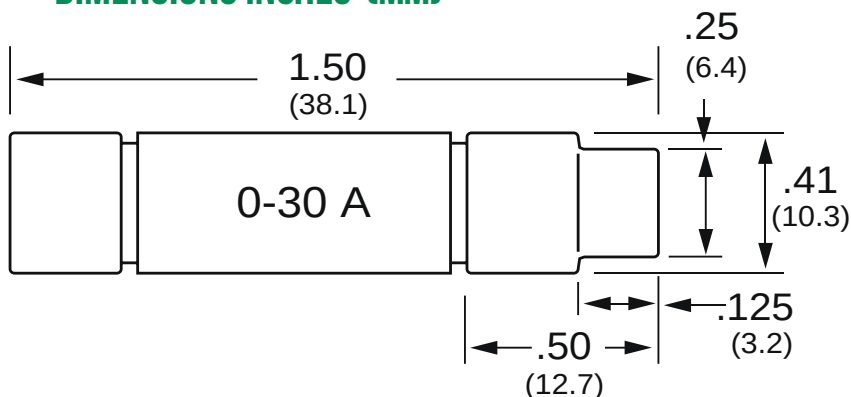
AC: Standard 248-4, Class CC
 UL Listed 2/10-30 A (File: E81895)
 Standard 248, Class CD
 UL Listed 35-60 A (File: E81895)
 CSA Certified (File: LR29862)
 DC: Littelfuse self-certified
 RoHS compliant (except 35-60 A)

Environmental

Item ID	Supplier Part ID	Type	Volts	Amps	Mersen-Gould Shawmut	Bussman- Fusetron	Bussman- Edison
Littelfuse							
CCMR001TXP	CCMR001.TXP	Class CC Time Delay Fuse	600V	1	ATDR1	LP-CC-1	EDCC1
CCMR003TXP	CCMR003.TXP	Class CC Time Delay Fuse	600V	3	ATDR3	LP-CC-3	EDCC3
CCMR010TXP	CCMR010.TXP	Class CC Time Delay Fuse	600V	10	ATDR10	LP-CC-10	EDCC10
CCMR015TXP	CCMR015.TXP	Class CC Time Delay Fuse	600V	15	ATDR15	LP-CC-15	EDCC15
CCMR020TXP	CCMR020.TXP	Class CC Time Delay Fuse	600V	20	ATDR20	LP-CC-20	EDCC20
CCMR025TXP							
CCMR030TXP	CCMR030.TXP	Class CC Time Delay Fuse	600V	30	ATDR30	LP-CC-30	EDCC30



DIMENSIONS INCHES (MM)



Class RK5-FLNR • FLSR Series

Description

The FLNR/FLSR series of fuses set the standard for general purpose fuses. The dual-element design provides advanced short circuit and overload protection. FLSR series fuses provide excellent protection for all types of circuits especially those containing motors.

NEW



Applications

- Service entrance switches
- Transformers
- Switchboard mains and feeders
- Motor control central mains and motor branch circuits
- All general purpose circuits

Features

- Dual-element design
- Current limiting

*Indicating available on special request

Specifications

Voltage Rating

AC: 250 V (FLNR_ID); 600 V (FLSR_ID)
DC: 125 V (FLNR 1/10 – 30 A);
125 V (FLNR_ID 35 – 600 A);
300 V (FLSR_ID)

Interrupting Rating

AC: 200 kA rms symmetrical
300 kA rms symmetrical
(Littelfuse self-certified)

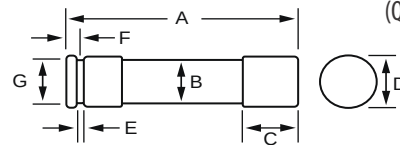
Amperage Range

Approvals

DC: 20kA
1/10 – 600 A
Standard 248-12, Class RK5
UL Listed (File: E81895)
CSA Certified (File: LR29862)
Federal Specification WF-1814
(QPL-W-F-1814)

AMPS	SERIES	DIMENSIONS INCHES (mm)						
		A	B	C	D	E	F	G
1/10-30	FLNR	2 (50.8)	1/8 (12.7)	1/8 (12.7)	3/16 (14.3)	3/16 (2.0)	3/16 (4.0)	3/16 (9.5)
	FLSR	5 (127.0)	3/4 (19.1)	3/4 (15.9)	3/4 (20.6)	3/16 (2.4)	3/16 (4.8)	3/16 (15.9)
35-60	FLNR	3 (76.2)	3/4 (19.1)	3/4 (15.9)	3/4 (20.6)	3/16 (2.4)	3/16 (4.8)	3/16 (15.9)
	FLSR	5 1/2 (139.7)	1 (25.4)	3/4 (15.9)	1 1/2 (27.0)	3/16 (2.4)	3/4 (6.4)	3/4 (22.2)
70-100	FLNR	5 1/4 (149.2)	1 (25.4)	1 1/4 (27.0)	1 1/4 (27.0)	3/4 (3.2)	3/4 (19.1)	—
	FLSR	7 1/4 (200.0)	1 1/4 (31.8)	1 1/4 (27.0)	1 1/4 (33.3)	3/4 (3.2)	3/4 (19.1)	—

DIMENSIONS



Item ID	Supplier Part ID	Type	Volts	Amps	MARS No. w/o Indicator	Mersen-Gould Shawmut	Bussman- Fusetron	Bussman- Edison
Littelfuse								
FLNR010T	FLNR010.T	Class RK5 Time Delay Fuse	250V	10	81032	TR10R	FRN-R-10	ECNR10
FLNR015T	FLNR015.T	Class RK5 Time Delay Fuse	250V	15	81034	TR15R	FRN-R-15	ECNR15
FLNR020T	FLNR020.T	Class RK5 Time Delay Fuse	250V	20	81036	TR20R	FRN-R-20	ECNR20
FLNR025T	FLNR025.T	Class RK5 Time Delay Fuse	250V	25	81037	TR25R	FRN-R-25	ECNR25
FLNR030T	FLNR030.T	Class RK5 Time Delay Fuse	250V	30	81038	TR30R	FRN-R-30	ECNR30
FLNR035T	FLNR035.T	Class RK5 Time Delay Fuse	250V	35	81039	TR35R	FRN-R-35	ECNR35
FLNR040T	FLNR040.T	Class RK5 Time Delay Fuse	250V	40	81040	TR40R	FRN-R-40	ECNR40
FLNR045T	FLNR045.T	Class RK5 Time Delay Fuse	250V	45	81041	TR45R	FRN-R-45	ECNR45
FLNR050T	FLNR050.T	Class RK5 Time Delay Fuse	250V	50	81042	TR50R	FRN-R-50	ECNR50
FLNR060T	FLNR060.T	Class RK5 Time Delay Fuse	250V	60	81043	TR60R	FRN-R-60	ECNR60
FLNR100V	FLNR100.V	Class RK5 Time Delay Fuse	250V	100	81047	TR100R	FRN-R-100	ECNR100
FLSR010T	FLSR010.T	Class RK5 Time Delay Fuse	600V	10	81132	TRS10R	FRS-R-10	ECSR10
FLSR015T	FLSR015.T	Class RK5 Time Delay Fuse	600V	15	81134	TRS15R	FRS-R-15	ECSR15
FLSR020T	FLSR020.T	Class RK5 Time Delay Fuse	600V	20	81136	TRS20R	FRS-R-20	ECSR20
FLSR025T	FLSR025.T	Class RK5 Time Delay Fuse	600V	25	81137	TRS25R	FRS-R-25	ECSR25
FLSR030T	FLSR030.T	Class RK5 Time Delay Fuse	600V	30	81138	TRS30R	FRS-R-30	ECSR30
FLSR035T	FLSR035.T	Class RK5 Time Delay Fuse	600V	35	81139	TRS35R	FRS-R-35	ECSR35
FLSR040T	FLSR040.T	Class RK5 Time Delay Fuse	600V	40	81140	TRS40R	FRS-R-40	ECSR40
FLSR045T	FLSR045.T	Class RK5 Time Delay Fuse	600V	45	81147	TRS45R	FRS-R-45	ECSR45
FLSR050T	FLSR050.T	Class RK5 Time Delay Fuse	600V	50	81141	TRS50R	FRS-R-50	ECSR50
FLSR060T	FLSR060.T	Class RK5 Time Delay Fuse	600V	60	81142	TRS60R	FRS-R-60	ECSR60
FLSR070V	FLSR070.V	Class RK5 Time Delay Fuse	600V	70	81143	TRS70R	FRS-R-70	ECSR70
FLSR080V	FLSR080.V	Class RK5 Time Delay Fuse	600V	80	81144	TRS80R	FRS-R-80	ECSR80
FLSR090V	FLSR090.V	Class RK5 Time Delay Fuse	600V	90	81145	TRS90R	FRS-R-90	ECSR90
FLSR100V	FLSR100.V	Class RK5 Time Delay Fuse	600V	100	81146	TRS100R	FRS-R-100	ECSR100

Packard Round Silicon Nitride Igniters

Features

- Round
- Made of durable Silicon Nitride
- OEM direct replacements



	IG1121N • 5.5" Leads with connector • Mounting bracket included • 120 Volt	Replaces: Goodman B1401015	Modine 5H075032B	
	IG1401N • Gasket included • 5.5" Leads with connector • 120 Volt	Replaces: Amana 10041601 Starlite 11120-100-1401	Amana D99182 Trianco-Heatermaker 2600-359	Amana B1336102
	IG1402N • 19" Leads with wire nuts • 120 Volt	Replaces: Amana 10755002 DMO 20834 / 26789 Rheem 62-22441-01	Armstrong 38322B001 Dornback 271W Trane 340039P01, IGN23	Clare C-238 / C-242 Goodman B11726-06 Williamson 09050
	IG1403N • 5.5" Leads with wire nuts • 120 Volt	Replaces: Amana B138196P01 Trane B138196P01 Weil McLain 511-330-193	Raypak 600915 Trane IGN26	Snyder General 1380654 Trane IGN30
	IG1405N • 5.5" Leads with wire nuts • 120 Volt	Replaces: Heil Quaker 1001344 York 025-29043-000	York 025-27766-00	York 025-27774-000
	IG1408N • 5.5" Leads with connector • 120 Volt	Replaces: Amana 340039P01 Rheem 62-2241-01	Lennox 98P78 Rheem 62-2268-92 Rheem 62-22868-93 Trane IGN-0034	Trane B340039P01 Starlite 11120-100-1408 Whirlpool 99794328
	IG1409N • 5.5" Leads with connector • 120 Volt	Replaces: Carrier LH33ZS001 Carrier LH33ZS004 Snyder General 1380680	Carrier LH33ZS002 Ducane 20015201 Trane IGN26	Carrier LH33ZS003 Snyder General 1380672 Weil McLain 511-330-139
	IG1410N • 5.5" Leads with connector • 120 Volt	Replaces: Amana B144676P01	Trane B144676P01	
	IG1411N • Includes bracket & connector • 120 Volt	Replaces: Norton 271N	Rheem 62-22868-82	

Packard Round Silicon Nitride Igniters

Features

- Round
- Made of durable Silicon Nitride
- OEM direct replacements



IG1412N

- 5.5" Leads with connector
- 120 Volt

Replaces:

Goodman B1401009
Norton 271NM

Heil Quaker 1009604

ICP 1009604



IG1414N

- 5.5" Leads with connector
- Includes brackets and wire nuts
- 120 Volts

Replaces:

767A-384
Norton MB457025

Norton 271NM

Goodman B14010-155

Packard Silicon Carbide Igniters

Features

- Silicon Carbide Igniters
- OEM direct replacements



IG3033

- Used on many Trane package models beginning with YCD15, YCD17 and YCD18
- Includes igniter, gasket, clip, mounting screws and installation instructions
- 120 Volt

Replaces:

Trane KIT03033



IG1121

- 5.5" Leads with connector
- Mounting bracket included
- 120 Volt

Replaces:

Goodman B1401015

Modine 5H075032B



IG1401

- Gasket included
- 5.5" Leads with connector
- 120 Volt

Replaces:

Amana 10041601
Starlite 11120-100-1401

Amana B1336102
Trianco-Heatermaker 2600-359

Amana D99182



IG1402

- 19" Leads with wire nuts
- 120 Volt

Replaces:

Amana 10755002
DMO 20834 / 26789
IGN23
Williamson 09050

Armstrong 38322B001
Dornback 271W
Rheem 62-22441-01

Clare C-238 / C-242
Goodman B11726-06
Trane 340039P01



IG1403

- 5.5" Leads with wire nuts
- 120 Volt

Replaces:

Amana B138196P01
Trane B138196P01
Weil McLain 511-330-193

Raypak 600915
Trane IGN26

Snyder General 1380654
Trane IGN30



IG1404

- 5" Leads with connector
- 120 Volt

Replaces:

Norton 271M
Weil McLain MB478265

Rheem 1096048
White Rodgers 767A382

Robertshaw 41-404

Packard Silicon Carbide Igniters

Features

- Silicon Carbide Igniters
- OEM direct replacements



IG1405

- 5.5" Leads with wire nuts
- 120 Volt

Replaces:

Heil Quaker 1001344
York 025-27774-000

Heil Quaker 1148145
York 025-29043-000

York 025-27766-00



IG1406

- Gasket included
- 11" Leads with wire nuts
- 120 Volt

Replaces:

Glowcore HSRK-7
Weil McLain 511-330-188

Lochinvar PLT2400

Spiral Igniter FY009



IG1407

- 5.5" Leads with connector
- 120 Volt

Replaces:

Trane B144676P02

Trane IGN30



IG1408

- 5.5" Leads with connector
- 120 Volt

Replaces:

Amana 340039P01
Rheem 62-2268-93
Trane B340039P01

Lennox 98P78
Rheem 62-22868-92
Trane IGN-0034

Rheem 62-2241-01
Starlite 11120-100-1408
Whirlpool 99794328



IG1409

- 5.5" Leads with connector
- 120 Volt

Replaces:

Carrier LH33ZS001
Carrier LH33ZS004
Snyder General 1380680

Carrier LH33ZS002
Ducane 20015201
Trane IGN26

Carrier LH33ZS003
Snyder General 1380672
Weil McLain 511-330-139



IG1410

- 5.5" Leads with connector
- 120 Volt

Replaces:

Amana B144676P01

Trane B144676P01



IG1411

- Includes bracket & connector
- 120 Volt

Replaces:

Norton 271N

Rheem 62-22868-82



IG1412

- 5.5" Leads with connector
- 120 Volt

Replaces:

Goodman B1401009
Norton 271NM

Heil Quaker 1009604

ICP 1009604



IG1414

- 5.5" Leads with connector
- Includes brackets and wire nuts
- 120 Volt

Replaces:

767A-384
Norton MB457025

Goodman B14010-155

Norton 271NM



IG2300

- 24" Leads with 1/4" quick connects
- Gasket included
- 120 Volt

Replaces:

Laars RW2002300

Packard Silicon Carbide Igniters

Features

- Silicon Carbide Igniters
- OEM direct replacements



IG0148

- For Weil Mclain AHE, GV, and HE II Boilers
- 5.5" leads with connector
- 120v

Replaces:

Weil Mclain
511330148



IG0184

- For Weil Mclain HE and VHE Boilers
- 5" leads with connector
- 120v
- Wire nuts and bracket included

Replaces:

Weil Mclain
511330184

Norton
201N



IG0286

- 5.5" Leads with connector
- Gasket included
- 120 Volt

Replaces:

Laars 2400-286



IG1100

- Includes brackets, screw and wire nuts
- 120 Volt
- Universal round carbide igniter

Replaces:

Robertshaw/Uniline		White-Rodgers		
41-238	41-242	767A-301	767A-365	767A-353
41-402	41-403	767A-310	767A-370	767A-357
41-404	41-405	767A-350	767A-372	767A-364
41-407	41-408	767A-354	767A-303	767A-366
41-409	41-410	767A-361	767A-311	767A-371
41-1090				



IG4000

- Includes brackets, screw and wire nuts
- 120 Volt
- Replaces hundreds of OEM Igniters

Replaces:

Robertshaw/Uniline		White-Rodgers		
41-238	41-242	767A-301	767A-365	767A-353
41-402	41-403	767A-310	767A-370	767A-357
41-404	41-405	767A-350	767A-372	767A-364
41-407	41-408	767A-354	767A-303	767A-366
41-409	41-410	767A-361	767A-311	767A-371
41-412	41-414			
41-1090				



IG1114

- An exact replacement kit for Nordyne series G6 (and earlier models G3, G4, G5) and M2 furnaces
- The kit includes complete installation instructions along with an adapter bracket and screws for G3RC, G4 (all), G5 (all), G3RA, G6 (all) and M2 (all) Nordyne furnaces
- 120 Volts

Replaces:

Nordyne 632354	Nordyne 632363	Nordyne 903597
Nordyne 903758		

Universal And Specialty Silicon Nitride Hot Surface Igniter Kits

Features

- Silicon Nitride has high fracture toughness and chemical resistance abilities and can be handled with the greasiest of hands
- For furnaces, boilers, pool and water heaters



IG80V

- 80 Volt / 120 watts
- Direct universal replacement

Replaces:

Amana 11111701	CAR768A845	CARIGN00117
HS100117A	Lennox 41K5601	Thermo Products 768A-143
Trane B340970P01	Trane IGN00033	Trane IGN00059
Trane IGN00104	Trane IGN00117	Trane IGN0104
Trane IGN033	Trane IGN059	

Universal And Specialty Silicon Nitride Hot Surface Igniter Kits

Features

- Silicon Nitride has high fracture toughness and chemical resistance abilities and can be handled with the greasiest of hands
- For furnaces, boilers, pool and water heaters



IG0001

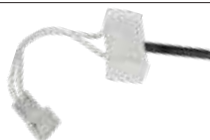
- Includes mini igniter, flat mounting plate, screw, instruction sheet and adapter harness; Manufactured using silicon nitride
- 120 Volt

Replaces:

Goodman 023K00000S

Goodman B1401015S

Goodman B1401018S



IG0004N

- Silicone nitride igniter
- 120 Volt

Replaces:

Carrier LH33ZS004



IG1000N

- 120 Volt
- Universal round glo-stix

Replaces:

Honeywell Q3200U1000\$

Honeywell Q3200U1000\$

Norton 201

Norton 201D

Norton 201J

Norton 201K

Norton 201L

Norton 201M

Norton 201N

Norton 201R

Norton 201W

Norton 201Y

Norton 271

Norton 271D

Norton 271M

Norton 271N

Norton 271NM

Norton 271P

Norton 271W

Norton 271Y



IG9500

- 24 Volt
- Silicon nitride design

Replaces:

Honeywell Q3400A1016

Honeywell Q3400A1024

Honeywell Q3400A1040

Honeywell Q3450

Honeywell Q3480

Honeywell Q3620

ICP 1009524

ICP 1149856

Igniters Direct "SMART LITE"

I OWN PACKARD!

Bill Campbell Jr.
Warehouse

I love Packard because...

“ of the people. Woody Hayes once said “You win with people,” and that’s what Packard does with our GREAT people. ”

Flame Sensors

Features

- For use with Spark ignition, Flame sensing and Hot Surface Ignition (H.S.I.) systems
- High quality alumina ceramic insulator
- High temperature kanthal flame rod material that can withstand 1800° F
- Flame rod can be trimmed down to match the application



PFS010

Single screw, plated steel mounting bracket

- Single rod
- 1/4" male connection
- Overall length 3 3/4"
- Probe length 2 1/2"

Replaces:

Goodman/Amana/Janitrol 20488501,
B1172606, Goodman 0130F00010



PFS053

Single screw, plated steel mounting bracket

- Single rod
- 1/4" male connection

Replaces:

York S1-SCP-9007053



PFS081

90 Degree

- Length of mounting flange to sensor tip 2 1/4"
- Length of sensor offset 3 1/4"
- Termination 1/4" male quick connect
- Bracket included

Replaces:

Lennox 40L81



PFS114

75 Degree

- Single screw, plated steel mounting bracket
- Termination 1/4" male quick connect

Replaces:

Trane SEN01114

TechTip >>>>

from Packard Academy

A defective or dirty flame sensor can prevent the burners in a gas furnace from remaining lit. The furnace may repeatedly attempt to ignite the burners but unsuccessfully. When installing or cleaning the flame sensor avoid touching the rod. If the oil present in our fingers is absorbed by the rod, it may result in improper operation and premature failure.



RICK'S TIP

Rick Streacker
National Training Coordinator



Flame Sensors

Features

- Flame sensors for Hot Surface Ignition (H.S.I.) systems
- Can be mounted remotely on multiple burners or adjacent to igniter on other applications
- For use with spark ignition and flame sensing
- High quality alumina ceramic insulator
- High temperature kanthal flame rod material that can withstand up to 1800°F



PFS013

- Teflon insulated (250°C rating) lead wire
- Used on these Bryant & Carrier models: 355MAV, 345MAV, 340MAV, 350MAV, 373LAV, 58MXA, 58MVP and 58MCA

Replaces:

Carrier 340MAV
Carrier 355MAV
Carrier LH680013

Carrier 345MAV
Carrier LH33WZ514

Carrier 350MAV
Carrier LH33WZ516



PFS014

- Teflon insulated (250°C rating) lead wire
- 45 Degree
- For use with Carrier LH33ZS004 igniter
- Used on these Bryant & Carrier models: 330AAV, 330JAV, 333BAV, 333JAV, 398AAV, 58DHC, 58DXC, 58PAV, 58SSC, 58SXC, 58TUA and 58WAV

Replaces:

6-62442-18179-4
Carrier LH680012

Carrier LH33WZ511
Carrier LH680014

Carrier LH33WZ515



PFS301

- 90 Degree
- Length - mounting flange to sensor tip: 2 1/2"
- Length - sensor offset: 1 9/16"
- Angle - sensor offset: 90 degree
- Termination: 1/4" male quick connect
- Commonly found on the Following Models: UGDG VGDG UGDG VGDG UGDG UGDJ UGFD UGLG UGLH UGLH UGLJ UGLK UGLL UGLN UGLQ UGLR UGPH UGPJ UGPK UGPL UGPN UGPP UGPQ UGPR UGRA UGRB UGRJ UGRK UGRL UGRM UGSA UGTA UGTJ UGVG UGVH UGVJ 80LJ 80LS 80PJ 80PS 90RJ 90RS 90RT 90TJ 90TS RGEF RGLS RGPS URGRM RGRS RGRT RGTS SGPB SGPN

Replaces:

Rheem 62-23543-01



PFS401

- Teflon insulated (250°C rating) lead wire
- Single screw, plated steel mounting bracket
- Single rod
- 30 Inch lead with a female connection
- Probe length 3 inch

Replaces:

31380679



PFS700

- Single screw, plated steel mounting bracket
- Single rod
- Probe length 4 inch
- Can be mounted remotely on multiple burners or adjacent to igniter on other applications
- For use with spark ignition and flame sensing
- High quality alumina ceramic insulator
- High temperature kanthal flame rod material that can withstand 1800°F

Replaces:

Coleman 025-30788-700

York 025-25434-700

York 025-30788-700



PFS802

- Single screw, plated steel mounting bracket
- Single rod
- 1/4 Inch male connection
- Probe length 3 inch

Replaces:

ICP 1380687

York 025-27773-700

Ditek Surge Protector



PSP72KA Features

- Weatherproof enclosure
- Parallel connection for easy installation
- Diagnostic LED provides positive indication of power, ground presence, and surge protection
- Automatically resets to handle multiple surge events
- Typical Applications: A/C disconnect, small electrical panels, pool/well pumps
- Half the response time as similar models



PSP38VDC Features

- Voice, Data and Signaling circuit surge protection
- Adds no resistance to loop circuits
- #22-#16 AWG screw terminal connections
- For 24 volt service

Item ID	Service Wiring	Peak Surge Current	MCOV	UL 1449, 3rd Ed. V.P.R.	Short Circuit Current Rating	UL1449, 3rd Ed. In Rating	Replaces
Ditek Surge Protector							
PSP38VDC	Screw Term	2,000 Amps/Pair	38VDC	UL497A & B	—	—	SYCST027B
PSP72KA	Split Φ (2W + G), 120/240VAC	72,000A/Phase 36,000A/Mode	130/260V	500V L-G, 900V L-L	10,000A	10,000A	SMC60 SMC150

Electric Heating Restring Coil Kits



General Purpose Restring Coil Kits

Features

- Restring kits are complete with terminal insulators, screws, washers and nuts
- Tight coil wire with 11/32" maximum outer diameter
- Packaged in a poly bag

Item ID	Watts at 240 Volt	Watts at 208 Volt
Packard		
PH500	5000	3750
PH501	3500	2625
PH502	2000	1500
PH503	2500	1875
PH505	4500	3375
PH506	4000	3000
PH507	3000	2250
PH520	6600	4950



5/8" O.D. General Purpose Coil Kits

Features

- Large open coil heaters for wall furnaces, duct heaters, electric furnaces, bathroom heaters and combination units
- Coil is terminated with 1/4" spade terminal
- Butt screws, bushings, nuts and instructions are included

Item ID	Connector	Watts at 240 Volt	Watts at 208 Volt
Packard			
PH500FC	1/4" Spade	5000	3750
PH500FCB	Bolt	5000	3750
PH501FC	1/4" Spade	3500	2625
PH501FCB	Bolt	3500	2625

