

Aluminum Windings									Losses (Watts)		Efficiency % at Temperature Rise +20C				% Regulation			DOE2016	Inrush		
DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)
K4 3-Phase 480V Delta-208Y/120																					
H48M28T1516	H15DA004	H48M28T15EE	15	150	45	FR940	283B	407	91	223	97.48	98.18	98.18	98.00	1.43	1.77	1.77	0.96	1.49	97.89	70
H48M28T3016	H30DA004	H48M28T30EE	30	150	45	FR940	283B	437	122	637	98.04	98.24	97.96	97.57	2.10	2.67	2.66	1.60	2.12	98.23	196
H48M28T4516	H45DA004	H48M28T45EE	45	150	45	FR940	283B	439	140	1175	98.39	98.23	97.76	97.22	2.54	4.07	4.18	3.26	2.61	98.40	146
H48M28T7516	H75DA004	H48M28T75EE	75	150	50	FR942	283B	599	210	1718	98.52	98.41	98.01	97.54	2.22	3.86	4.05	3.34	2.29	98.60	244
H48M28T1216	H12DA004	H48M28T12EE	112.5	150	50	FR943	283B	987	365	1468	98.60	98.82	98.69	98.45	1.19	2.73	3.07	2.78	1.30	98.74	265
H48M28T4916	H49DA004	H48M28T49EE	150	150	50	FR943	283B	1237	350	2601	98.65	98.68	98.41	98.07	1.63	3.45	3.93	3.59	1.60	98.83	447
H48M28T2216	H22DA004	H48M28T22EE	225	150	55	FR944	283B	1642	471	3473	98.88	98.87	98.61	98.30	1.37	4.38	5.43	5.21	1.54	98.94	610
H48M28T3316	H33DA004	H48M28T33EE	300	150	55	FR945	283B	2394	600	4469	98.99	98.94	98.68	98.38	1.31	4.07	4.99	4.76	1.49	99.02	675
H48M28F1516	H15DA005	H48M28F15EE	15	115	45	FR940	283B	402	91	294	97.48	98.24	98.27	98.13	1.57	1.70	1.7	1.03	1.35	97.89	136
H48M28F3016	H30DA005	H48M28F30EE	30	115	45	FR940	283B	415	122	562	98.09	98.35	98.14	97.81	1.85	2.39	2.38	1.47	1.87	98.23	196
H48M28F4516	H45DA005	H48M28F45EE	45	115	45	FR942	283B	619	193	577	98.16	98.60	98.54	98.36	1.23	2.21	2.34	1.96	1.28	98.40	244
H48M28F7516	H75DA005	H48M28F75EE	75	115	50	FR943	283B	984	260	1083	98.49	98.71	98.55	98.29	1.30	2.92	3.25	2.91	1.44	98.60	265
H48M28F1216	H12DA005	H48M28F12EE	112.5	115	50	FR943	283B	1236	365	1322	98.62	98.88	98.78	98.57	1.07	2.60	2.98	2.74	1.18	98.74	447
H48M28F4916	H49DA005	H48M28F49EE	150	115	55	FR944	283B	1607	489	1374	98.49	98.90	98.89	98.77	0.84	2.59	3.27	3.15	0.86	98.83	610
H48M28F2216	H22DA005	H48M28F22EE	225	115	55	FR945	283B	2353	542	2597	98.82	98.98	98.85	98.64	0.95	3.04	3.68	3.49	1.15	98.94	675
H48M28F3316	H33DA005	H48M28F33EE	300	115	55	FR945	283B	2198	582	4188	98.88	99.00	98.84	98.61	3.16	3.59	3.73	3.53	1.20	99.02	1027
H48M28B1516	H15DA032	H48M28B15EE	15	80	45	FR939	283B	254	65	543	97.71	97.69	97.17	96.55	3.57	3.66	3.67	1.82	3.19	97.89	58
H48M28B3016	H30DA006	H48M28B30EE	30	80	45	FR940	283B	438	125	467	97.99	98.41	98.31	98.06	1.50	2.73	2.84	2.29	1.68	98.23	146
H48M28B4516	H45DA006	H48M28B45EE	45	80	45	FR942	283B	619	180	536	98.29	98.70	98.64	98.47	1.13	2.19	2.36	2.04	1.19	98.40	244
H48M28B7516	H75DA006	H48M28B75EE	75	80	50	FR943	283B	1027	260	899	98.49	98.80	98.70	98.51	1.09	2.74	3.18	2.95	1.20	98.60	265
H48M28B1216	H12DA006	H48M28B12EE	112.5	80	50	FR944	283B	1643	444	769	98.50	99.00	99.06	98.99	0.56	2.09	2.64	2.55	0.68	98.74	610
H48M28B4916	H49DA006	H48M28B49EE	150	80	55	FR944	283B	1607	489	1264	98.51	98.94	98.94	98.84	0.76	2.59	3.27	3.15	0.86	98.83	611
H48M28B2216	H22DA006	H48M28B22EE	225	80	60	FR924	283B	2680	621	2405	98.78	99.09	99.07	98.96	3.01	3.48	3.67	3.58	0.79	98.94	757

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DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)
K13 3-Phase 480V Delta-208Y/120																					
N48M28T1516	N15DA004	N48M28T15EE	15	150	45	FR940	283B	406	91	221	97.43	98.17	98.18	98.00	1.40	1.68	1.68	0.84	1.45	97.89	70
N48M28T3016	N30DA004	N48M28T30EE	30	150	45	FR940	283B	395	122	649	98.01	98.21	97.92	97.53	2.13	2.46	2.47	1.23	2.14	98.23	196
N48M28T4516	N45DA004	N48M28T45EE	45	150	48	FR942	283B	594	193	624	98.12	98.55	98.46	98.25	1.33	2.30	2.40	1.96	1.39	98.40	244
N48M28T7516	N75DA004	N48M28T75EE	75	150	53	FR943	283B	1012	256	1089	98.50	98.71	98.55	98.29	1.39	3.09	3.5	3.18	1.45	98.60	265
N48M28T1216	N12DA004	N48M28T12EE	112.5	150	53	FR943	283B	1297	365	1501	98.60	98.81	98.67	98.42	1.21	2.81	3.18	2.89	1.33	98.74	447
N48M28T4916	N49DA004	N48M28T49EE	150	150	53	FR944	283B	1425	415	1654	98.78	98.98	98.87	98.68	0.91	2.98	3.64	3.47	1.10	98.83	610
N48M28T2216	N22DA004	N48M28T22EE	225	150	58	FR945	283B	2341	600	2472	98.86	99.02	98.89	98.70	0.97	3.05	3.75	3.59	1.10	98.94	675
N48M28F1516	N15DA005	N48M28F15EE	15	115	45	FR940	283B	412	91	290	97.58	98.29	98.32	98.17	1.50	1.61	1.61	0.91	1.33	97.89	136
N48M28F3016	N30DA005	N48M28F30EE	30	115	45	FR940	283B	437	140	504	98.08	98.41	98.26	97.98	1.65	2.84	2.98	2.46	1.68	98.23	196
N48M28F4516	N45DA005	N48M28F45EE	45	115	48	FR942	283B	619	193	577	98.24	98.65	98.57	98.38	1.23	2.18	2.29	1.90	1.28	98.40	244
N48M28F7516	N75DA005	N48M28F75EE	75	115	53	FR943	283B	977	260	988	98.48	98.75	98.63	98.40	1.17	2.76	3.11	2.82	1.32	98.60	265
N48M28F1216	N12DA005	N48M28F12EE	112.5	115	53	FR944	283B	1547	495	848	98.41	98.93	98.98	98.91	0.62	2.18	2.71	2.60	0.75	98.74	610
N48M28F4916	N49DA005	N48M28F49EE	150	115	53	FR944	283B	1682	380	1422	98.80	99.05	98.98	98.82	0.83	2.88	3.64	3.51	0.95	98.83	610
N48M28F2216	N22DA005	N48M28F22EE	225	115	58	FR924	283B	1927												98.94	
N48M28B1516		N48M28B15EE	15	80	45	FR940	283B													97.89	
N48M28B3016	N30DA006	N48M28B30EE	30	80	53	FR942	283B	612	193	241	97.30	98.34	98.56	98.57	0.76	1.63	1.78	1.56	0.86	98.23	244
N48M28B4516	N45DA006	N48M28B45EE	45	80	48	FR943	283B	927	221	333	97.89	98.67	98.81	98.78	0.70	1.60	1.82	1.66	0.74	98.40	244
N48M28B7516	N75DA006	N48M28B75EE	75	80	53	FR943	283B	1098	288	595	98.42	98.91	98.95	98.87	0.68	1.75	2.01	1.85	0.79	98.60	447
N48M28B1216	N12DA006	N48M28B12EE	112.5	80	58	FR944	283B	1607	489	711	98.14	98.83	98.96	98.94	0.57	1.94	2.45	2.36	0.64	98.74	610
N48M28B4916	N49DA006	N48M28B49EE	150	80	58	FR945	283B	2193	592	891	98.30	98.93	99.04	99.02	0.53	1.89	2.40	2.32	0.60	98.83	675

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DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)
3-Phase 480V Delta-208Y/120																					
V48M28T1516CU	V15DC001	V48M28T15CU EE	15	150	45	FR939	280B	250	75	391	97.71	97.89	97.54	97.06	2.60	2.83	2.88	1.23	2.60	97.89	109
V48M28T3016CU	V30DC001	V48M28T30CU EE	30	150	45	FR940	280B	415	116	703	98.06	98.17	97.83	97.38	2.25	2.50	2.56	1.03	2.34	98.23	262
V48M28T4516CU	V45DC001	V48M28T45CU EE	45	150	45	FR940	280B	478	123	1176	98.43	98.25	97.78	97.23	2.57	3.45	3.44	2.24	2.61	98.4	181
V48M28T7516CU	V75DC001	V48M28T75CU EE	75	150	50	FR942	280B	676	210	1730	98.54	98.42	98.01	97.53	2.23	3.20	3.21	2.23	2.31	98.6	399
V48M28T1216CU	V12DC001	V48M28T12CU EE	112.5	150	50	FR943	280B	1263	270	2202	98.74	98.65	98.31	97.90	1.81	3.42	3.63	3.06	1.96	98.74	351
V48M28T4916CU	V49DC001	V48M28T49CU EE	150	150	50	FR943	280B	1410	360	2501	98.78	98.77	98.50	98.16	1.56	3.12	3.39	2.95	1.67	98.83	597
V48M28T2216CU	V22DC001	V48M28T22CU EE	225	150	55	FR944	280B	1883	420	4395	98.88	98.72	98.35	97.93	1.78	4.44	5.14	4.75	1.95	98.94	540
V48M28T3316CU	V33DC001	V48M28T33CU EE	300	150	55	FR945	280B	2485	507	4932	98.93	98.85	98.56	98.22	1.50	3.66	4.21	3.88	1.64	99.02	858
V48M28F1516CU	V15DC002	V48M28F15CU EE	15	115	45	FR939	280B	241	75	368	97.71	97.95	97.64	97.19	2.44	2.76	2.77	1.37	2.41	97.89	109
V48M28F3016CU	V30DC002	V48M28F30CU EE	30	115	45	FR940	280B	433	116	634	98.09	98.26	97.98	97.59	2.01	2.24	2.30	0.90	2.12	98.23	235
V48M28F4516CU	V45DC002	V48M28F45CU EE	45	115	45	FR940	280B	471	123	1112	98.43	98.30	97.87	97.36	2.42	3.45	3.46	2.42	2.47	98.4	170
V48M28F7516CU	V75DC002	V48M28F75CU EE	75	115	50	FR942	280B	665	214	1531	98.50	98.50	98.17	97.76	1.98	2.95	2.97	2.10	2.10	98.6	378
V48M28F1216CU	V12DC002	V48M28F12CU EE	112.5	115	50	FR943	280B	1271	270	2057	98.70	98.69	98.38	98.00	1.72	3.62	4.00	3.56	1.83	98.74	307
V48M28F4916CU	V49DC002	V48M28F49CU EE	150	115	50	FR943	280B	1422	360	1796	98.90	99.00	98.84	98.62	0.59	2.99	3.56	3.35	1.20	98.83	546
V48M28F2216CU	V22DC002	V48M28F22CU EE	225	115	55	FR944	280B	2082	420	4147	98.90	98.77	98.43	98.03	1.64	4.55	5.41	5.09	1.84	98.94	455
V48M28F3316CU	V33DC002	V48M28F33CU EE	300	115	55	FR945	280B	2568	570	4846	98.93	98.87	98.58	98.25	1.41	4.03	4.80	4.52	1.62	99.02	707
V48M28B1516CU	V15DC003	V48M28B15CU EE	15	80	45	FR939	280B	239	75	365	97.94	98.08	97.73	97.27	2.42	2.97	2.96	1.69	2.43	97.89	92
V48M28B3016CU	V30DC003	V48M28B30CU EE	30	80	45	FR940	280B	466	118	432	98.27	98.60	98.48	98.24	1.41	2.05	2.06	1.47	1.45	98.23	181
V48M28B4516CU	V45DC003	V48M28B45CU EE	45	80	45	FR942	280B	667	210	570	98.35	98.70	98.62	98.42	1.15	1.91	1.95	1.48	1.27	98.4	399
V48M28B7516CU	V75DC003	V48M28B75CU EE	75	80	50	FR943	280B	1147	270	892	98.47	98.79	98.71	98.52	1.06	2.41	2.68	2.40	1.19	98.6	351
V48M28B1216CU	V12DC003	V48M28B12CU EE	112.5	80	50	FR943	280B	1385	360	1271	98.66	98.92	98.82	98.62	1.08	2.38	2.69	2.44	1.13	98.74	597
V48M28B4916CU	V49DC003	V48M28B49CU EE	150	80	50	FR944	280B	1895	420	1867	98.74	98.91	98.76	98.54	0.96	2.96	3.48	3.25	1.24	98.83	540
V48M28B2216CU	V22DC003	V48M28B22CU EE	225	80	55	FR945	280B	2385	513	2341	98.89	99.06	98.94	98.76	0.86	2.66	3.20	3.03	1.04	98.94	707
3-Phase 480V Delta-480Y/277																					
V48M47T1516CU		V48M47T15CU EE	15	150																97.89	
V48M47T3016CU	V30DC038	V48M47T30CU EE	30	150	45	FR940	280B	431	116	522	98.32	98.52	98.30	97.98	1.32	2.41	2.42	1.68	1.74	98.23	
V48M47T4516CU	V45DC007	V48M47T45CU EE	45	150	45	FR940	280B	457	123	1239	98.50	98.24	97.71	97.12	2.75	3.77	3.77	2.57	2.75	98.4	161
V48M47T7516CU	V75DC007	V48M47T75CU EE	75	150	50	FR942	280B	673	214	1514	98.50	98.51	98.18	97.78	1.99	2.83	2.84	2.00	2.02	98.6	453
V48M47T1216CU	V12DC007	V48M47T12CU EE	112.5	150	50	FR943	280B	1110	270	2001	98.70	98.70	98.41	98.05	1.73	3.25	3.5	3.01	1.78	98.74	
V48M47T4916CU		V48M47T49CU EE	150	150																98.83	
V48M47T2216CU		V48M47T22CU EE	225	150																98.94	
V48M47T3316CU		V48M47T33CU EE	300	150																99.02	
3-Phase 480V Delta-240V Delta with 120V lighting tap																					
V48M22T1516CU		V48M22T15CU EE	15	150																97.89	
V48M22T3016CU		V48M22T30CU EE	30	150																98.23	
V48M22T4516CU	V45DC019	V48M22T45CU EE	45	150	45	FR940	282B	475	123	1131	98.44	98.30	97.84	97.32	2.48	3.43	3.43	2.34	2.51	98.4	
V48M22T7516CU	V75DC019	V48M22T75CU EE	75	150	50	FR942	282B	691	206	1584	98.51	98.48	98.12	97.70	2.05	2.89	2.89	1.97	2.11	98.6	404
V48M22T1216CU		V48M22T12CU EE	112.5	150																98.74	
V48M22T4916CU		V48M22T49CU EE	150	150																98.83	
V48M22T2216CU		V48M22T22CU EE	225	150																98.94	
V48M22T3316CU		V48M22T33CU EE	300	150																99.02	

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3-Phase 208V Delta-480Y/277																							
V29M47T1516CU		V29M47T15CUEE	15	150																	97.89		
V29M47T3016CU		V29M47T30CUEE	30	150																		98.23	
V29M47T4516CU		V29M47T45CUEE	45	150																		98.4	
V29M47T7516CU		V29M47T75CUEE	75	150																		98.6	
V29R47T1216CU	V12DC036	V29R47T12CUEE	112.5	150	50	FR943	E0351A	1283	260	2283	98.80	98.66	98.28	97.85	1.83	3.68	3.95	3.39	2.03		98.74		
V29R47T4916CU		V29R47T49CUEE	150	150																		98.83	
V29R47T2216CU		V29R47T22CUEE	225	150																		98.94	
V29R47T3316CU		V29R47T33CUEE	300	150																		99.02	
3-Phase 240V Delta-208Y/120																							
V24M28T1516CU		V24M28T15CUEE	15	150																		97.89	
V24M28T3016CU		V24M28T30CUEE	30	150																		98.23	
V24M28T4516CU		V24M28T45CUEE	45	150																		98.4	
V24M28T7516CU		V24M28T75CUEE	75	150																		98.6	
V24M28T1216CU		V24M28T12CUEE	112.5	150																		98.74	
V24M28T4916CU		V24M28T49CUEE	150	150																		98.83	
V24M28T2216CU		V24M28T22CUEE	225	150																		98.94	
V24M28T3316CU		V24M28T33CUEE	300	150																		99.02	
3-Phase 480V Delta-208Y/120 Electrostatically Shielded																							
V48M28T1516CUES	V15DC004	V48M28E15CUEE	15	150	45	FR939	283B	236	75	414	97.86	97.91	97.50	96.96	2.73	3.13	3.15	1.52	2.76		97.89	109	
V48M28T3016CUES	V30DC004	V48M28E30CUEE	30	150	45	FR940	283B	415	116	529	98.12	98.41	98.22	97.91	1.73	2.41	2.41	1.64	1.76		98.23	262	
V48M28T4516CUES	V45DC004	V48M28E45CUEE	45	150	45	FR940	283B	473	118	1271	98.28	98.10	97.59	97.01	2.75	3.80	3.80	2.60	2.77		98.4	181	
V48M28T7516CUES	V75DC004	V48M28E75CUEE	75	150	50	FR942	283B	675	206	1615	98.39	98.40	98.06	97.63	2.07	2.84	2.84	1.94	2.08		98.6	399	
V48M28T1216CUES	V12DC004	V48M28E12CUEE	112.5	150	50	FR943	283B	1085	251	2223	98.63	98.59	98.25	97.85	1.87	3.38	3.63	3.11	1.88		98.74	351	
V48M28T4916CUES	V49DC004	V48M28E49CUEE	150	150	50	FR943	283B	1328	350	2351	98.69	98.77	98.54	98.23	1.47	2.77	3.02	2.64	1.46		98.83	597	
V48M28T2216CUES	V22DC004	V48M28E22CUEE	225	150	55	FR944	283B	1938	420	4369	98.90	98.73	98.36	97.95	1.75	4.58	5.37	5.01	1.94		98.94	540	
V48M28T3316CUES	V33DC004	V48M28E33CUEE	300	150	55	FR945	283B	2354	561	4491	98.89	98.89	98.65	98.34	1.39	3.04	3.48	3.19	1.38		99.02	858	
V48M28F1516CUES	V15DC005	V48M28F15CUEEES	15	115	45	FR939	283B	238	75	368	97.83	98.01	97.68	97.23	2.44	2.90	2.90	1.54	2.46		97.89	109	
V48M28F3016CUES	V30DC005	V48M28F30CUEEES	30	115	45	FR940	283B	428	116	642	98.06	98.24	97.96	97.56	2.06	2.36	2.39	1.07	2.14		98.23	235	
V48M28F4516CUES	V45DC005	V48M28F45CUEEES	45	115	45	FR940	283B	480	123	1135	98.44	98.29	97.84	97.31	2.51	3.51	3.52	2.45	2.52		98.4	170	
V48M28F7516CUES	V75DC005	V48M28F75CUEEES	75	115	50	FR942	283B	668	214	1600	98.54	98.48	98.12	97.68	2.01	3.03	3.05	2.18	2.13		98.6	378	
V48M28F1216CUES	V12DC005	V48M28F12CUEEES	112.5	115	50	FR943	283B	1282	270	2110	98.77	98.70	98.37	97.98	1.71	3.76	4.17	3.72	1.88		98.74	307	
V48M28F4916CUES	V49DC005	V48M28F49CUEEES	150	115	50	FR943	283B	1337	350	2234	98.71	98.80	98.59	98.31	1.38	2.94	3.34	3.05	1.37		98.83	546	
V48M28F2216CUES	V22DC005	V48M28F22CUEEES	225	115	55	FR944	283B	1857	418	3811	98.85	98.80	98.50	98.16	1.55	4.15	5.03	4.78	1.58		98.94	455	
V48M28F3316CUES	V33DC005	V48M28F33CUEEES	300	115	55	FR945	283B	2478	561	4198	98.91	98.94	98.72	98.44	1.28	3.41	4.14	3.94	1.29		99.02	707	
V48M28B1516CUES	V15DC006	V48M28B15CUEEES	15	80	45	FR939	283B	249	75	366	97.99	98.09	97.73	97.27	2.43	3.02	3.01	1.76	2.44		97.89	108	
V48M28B3016CUES	V30DC006	V48M28B30CUEEES	30	80	45	FR940	283B	459	118	433	98.28	98.61	98.48	98.24	1.41	2.05	2.06	1.47	1.44		98.23	181	
V48M28B4516CUES	V45DC006	V48M28B45CUEEES	45	80	50	FR942	283B	675	206	489	97.94	98.56	98.59	98.48	1.03	1.70	1.70	1.16	1.25		98.4	399	
V48M28B7516CUES	V75DC006	V48M28B75CUEEES	75	80	50	FR943	283B	1163	270	892	98.57	98.84	98.74	98.54	1.06	2.43	2.71	2.44	1.19		98.6	351	
V48M28B1216CUES	V12DC006	V48M28B12CUEEES	112.5	80	50	FR943	283B	1328	350	1125	98.53	98.89	98.85	98.71	0.91	2.08	2.27	1.98	1.09		98.74	597	
V48M28B4916CUES	V49DC006	V48M28B49CUEEES	150	80	50	FR944	283B	2092	420	1794	98.75	98.93	98.80	98.58	0.97	3.39	4.20	4.03	1.20		98.83	540	
V48M28B2216CUES	V22DC006	V48M28B22CUEEES	225	80	55	FR945	283B	2478	561	2178	98.78	99.03	98.95	98.80	0.87	2.56	3.11	2.95	0.96		98.94	707	

Copper Windings									Losses (Watts)		Efficiency % at Temperature Rise +20C				% Regulation			DOE2016	Inrush		
DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)
K4 3-Phase 480V Delta-208Y/120																					
H48M28T1516CU	H15DC004	H48M28T15CU EE	15	150	45	FR940	283B	418	86	264	97.55	98.12	98.03	97.78	1.74	1.85	1.9	0.72	1.76	97.89	154
H48M28T3016CU	H30DC004	H48M28T30CU EE	30	150	45	FR940	283B	458	123	514	98.06	98.40	98.23	97.94	1.71	2.38	2.38	1.61	1.75	98.23	170
H48M28T4516CU	H45DC004	H48M28T45CU EE	45	150	45	FR942	283B	677	190	651	98.13	98.53	98.43	98.20	1.40	1.91	1.90	1.23	1.45	98.4	378
H48M28T7516CU	H75DC004	H48M28T75CU EE	75	150	50	FR943	283B	1274	270	793	98.58	98.90	98.83	98.67	0.94	1.91	2.05	1.76	1.06	98.6	307
H48M28T1216CU	H12DC004	H48M28T12CU EE	112.5	150	50	FR943	283B	1818	360	1307	98.63	98.88	98.78	98.58	1.00	2.31	2.56	2.28	1.16	98.74	546
H48M28T4916CU	H49DC004	H48M28T49CU EE	150	150	50	FR944	283B	2105	439	1955	98.71	98.87	98.71	98.48	1.20	3.32	3.98	3.76	1.30	98.83	455
H48M28T2216CU	H22DC004	H48M28T22CU EE	225	150	55	FR945	283B	2674	570	2462	98.89	99.04	98.91	98.71	1.03	3.05	3.76	3.60	1.09	98.94	707
H48M28T3316CU	H33DC004	H48M28T33CU EE	300	150	55	FR945	283B	2737	570	4335	99.02	98.97	98.72	98.42	1.30	4.26	5.2	4.95	1.58	99.02	720
H48M28F1516CU	H15DC005	H48M28F15CU EE	15	115	45	FR940	283B	414	86	338	97.50	98.12	98.06	97.83	1.88	1.98	1.98	1.05	1.68	97.89	154
H48M28F3016CU	H30DC005	H48M28F30CU EE	30	115	45	FR940	283B	417	123	515	98.17	98.44	98.26	97.97	1.69	2.31	2.31	1.55	1.72	98.23	170
H48M28F4516CU	H45DC005	H48M28F45CU EE	45	115	45	FR942	283B	684	190	562	98.24	98.65	98.59	98.41	1.22	1.71	1.71	1.17	1.25	98.4	378
H48M28F7516CU	H75DC005	H48M28F75CU EE	75	115	50	FR943	283B	1083	270	843	98.69	98.93	98.82	98.63	1.08	2.11	2.24	1.88	1.21	98.6	307
H48M28F1216CU	H12DC005	H48M28F12CU EE	112.5	115	50	FR943	283B	1394	350	1323	98.60	98.87	98.77	98.57	1.04	2.44	2.74	2.47	1.18	98.74	546
H48M28F4916CU	H49DC005	H48M28F49CU EE	150	115	55	FR944	283B	1857	418	1694	98.62	98.89	98.80	98.61	1.03	2.77	3.35	3.18	1.05	98.83	455
H48M28F2216CU	H22DC005	H48M28F22CU EE	225	115	55	FR945	283B	2478	561	2361	98.76	98.99	98.89	98.72	0.96	2.56	3.11	2.95	0.96	98.94	707
H48M28B1516CU		H48M28B15CU EE	15	80	45	FR940	283B													97.89	
H48M28B3016CU	H30DC006	H48M28B30CU EE	30	80	45	FR940	283B	482	110	444	98.24	98.57	98.44	98.20	1.47	2.11	2.12	1.52	1.48	98.23	170
H48M28B4516CU	H45DC006	H48M28B45CU EE	45	80	45	FR942	283B	669	195	509	98.07	98.62	98.61	98.47	1.08	1.57	1.57	1.09	1.13	98.4	378
H48M28B7516CU	H75DC006	H48M28B75CU EE	75	80	50	FR943	283B	1210	243	874	98.54	98.84	98.74	98.56	1.07	2.49	2.83	2.58	1.17	98.6	307
H48M28B1216CU	H12DC006	H48M28B12CU EE	112.5	80	50	FR943	283B	1287	360	1293	98.65	98.91	98.80	98.60	0.91	2.44	2.76	2.51	1.15	98.74	546
H48M28B4916CU	H49DC006	H48M28B49CU EE	150	80	50	FR944	283B	2138	420	1190	98.85	99.13	99.09	98.98	0.44	2.68	3.47	3.38	0.79	98.83	455
H48M28B2216CU	H22DC006	H48M28B22CU EE	225	80	55	FR945	283B	2478	561	2178	98.78	99.03	98.95	98.80	0.87	2.56	3.11	2.95	0.96	98.94	707

Copper Windings									Losses (Watts)		Efficiency % at Temperature Rise +20C				% Regulation			DOE2016	Inrush		
DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)
K13 3-Phase 480V Delta-208Y/120																					
N48M28T1516CU	N15DC004	N48M28T15CU EE	15	150	45	FR940	283B	430	116	306	97.53	98.29	98.34	98.21	1.41	1.51	1.51	0.82	1.27	97.89	235
N48M28T3016CU	N30DC004	N48M28T30CU EE	30	150	45	FR940	283B	480	118	542	98.14	98.41	98.20	97.88	1.76	2.49	2.49	1.71	1.81	98.23	170
N48M28T4516CU	N45DC004	N48M28T45CU EE	45	150	48	FR942	283B	658	190	619	98.13	98.55	98.47	98.27	1.35	1.83	1.83	1.21	1.38	98.4	378
N48M28T7516CU	N75DC004	N48M28T75CU EE	75	150	53	FR943	283B	1115	245	1029	98.52	98.75	98.60	98.36	1.27	2.58	2.80	2.44	1.37	98.6	307
N48M28T1216CU	N12DC004	N48M28T12CU EE	112.5	150	53	FR943	283B	1424	380	1135	98.67	98.97	98.90	98.74	0.93	2.94	3.64	3.49	1.03	98.74	546
N48M28T4916CU	N49DC004	N48M28T49CU EE	150	150	53	FR944	283B	2132	418	1760	98.81	98.97	98.83	98.62	1.13	3.15	3.65	3.38	1.39	98.83	455
N48M28T2216CU	N22DC004	N48M28T22CU EE	225	150	58	FR945	283B	2628	561	2569	98.83	98.99	98.86	98.65	1.02	3.00	3.64	3.46	1.14	98.94	707
N48M28F1516CU	N15DC004	N48M28F15CU EE	15	115	45	FR940	283B	398	116	289	97.65	98.39	98.45	98.35	1.36	1.51	1.51	0.98	1.15	97.89	235
N48M28F3016CU	N30DC005	N48M28F30CU EE	30	115	48	FR940	283B	478	123	485	98.40	98.60	98.41	98.11	1.59	2.19	2.19	1.48	1.62	98.23	170
N48M28F4516CU	N45DC005	N48M28F45CU EE	45	115	53	FR942	283B	658	190	581	98.20	98.62	98.55	98.36	1.25	1.81	1.82	1.27	1.30	98.4	378
N48M28F7516CU	N75DC005	N48M28F75CU EE	75	115	53	FR943	283B	1115	245	995	98.48	98.74	98.62	98.40	1.18	2.56	2.81	2.48	1.33	98.6	307
N48M28F1216CU	N12DC005	N48M28F12CU EE	112.5	115	58	FR944	283B	2150	337	1589	98.64	98.91	98.82	98.63	3.07	3.50	3.65	3.48	1.11	98.74	315
N48M28F4916CU	N49DC005	N48M28F49CU EE	150	115	58	FR944	283B	2282	418	2000	98.72	98.87	98.70	98.45	1.16	4.25	5.43	5.26	1.33	98.83	455
N48M28F2216CU	N22DC005	N48M28F22CU EE	225	115	58	FR945	283B	3043	695	2226	98.78	99.14	99.15	99.07	2.88	3.35	3.56	3.49	0.68	98.94	898
N48M28B1516CU	N15DC006	N48M28B15CU EE	15	80	45	FR940	283B	434	116	263	97.66	98.46	98.57	98.51	1.08	1.17	1.17	0.64	0.98	97.89	235
N48M28B3016CU	N30DC006	N48M28B30CU EE	30	80	48	FR940	283B	507	110	449	98.23	98.56	98.43	98.18	1.47	2.09	2.10	1.47	1.50	98.23	170
N48M28B4516CU	N45DC006	N48M28B45CU EE	45	80	53	FR942	283B	678	206	496	97.94	98.55	98.58	98.46	1.04	1.69	1.72	1.27	1.15	98.4	378
N48M28B7516CU	N75DC006	N48M28B75CU EE	75	80	53	FR943	283B	1490	290	717	98.35	98.82	98.82	98.70	0.88	2.23	2.60	2.42	0.96	98.6	307
N48M28B1216CU	N12DC006	N48M28B12CU EE	112.5	80	53	FR944	283B	1927									3.94			98.74	315
N48M28B4916CU	N49DC006	N48M28B49CU EE	150	80	58	FR944	282B	2132									3.65			98.83	



Aluminum Windings									Losses (Watts)		Efficiency % at Temperature Rise +20C				% Regulation			DOE2016	Inrush		
DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)
3-Phase 480V Delta-208Y/120																					
V48M28T1516	V15DA001	V48M28T15EE	15	150	45	FR939	280B	225	69	498	97.91	97.75	97.16	96.48	3.31	3.70	3.74	1.67	3.35	97.89	70
V48M28T3016	V30DA001	V48M28T30EE	30	150	45	FR940	280B	409	125	661	97.96	98.17	97.88	97.48	2.18	2.40	2.44	1.05	2.20	98.23	218
V48M28T4516	V45DA001	V48M28T45EE	45	150	45	FR940	280B	416	140	1136	98.32	98.23	97.80	97.28	2.48	3.50	3.51	2.44	2.52	98.40	165
V48M28T7516	V75DA001	V48M28T75EE	75	150	50	FR942	280B	570	210	1645	98.50	98.44	98.07	97.62	2.13	3.49	3.61	2.87	2.19	98.60	270
V48M28T1216	V12DA001	V48M28T12EE	112.5	150	50	FR943	280B	976	275	2269	98.69	98.61	98.26	97.83	1.83	3.96	4.37	3.88	2.02	98.74	302
V48M28T4916	V49DA001	V48M28T49EE	150	150	50	FR943	280B	1239	350	2604	98.76	98.74	98.45	98.10	1.56	3.20	3.46	2.99	1.74	98.83	516
V48M28T2216	V22DA001	V48M28T22EE	225	150	55	FR944	280B	1624	495	3738	98.85	98.81	98.53	98.19	1.40	3.58	4.29	4.05	1.41	98.94	721
V48M28T3316	V33DA001	V48M28T33EE	300	150	55	FR945	280B	2283	640	4764	98.99	98.91	98.62	98.29	1.33	3.79	4.45	4.16	1.59	99.02	731
V48M28F1516	V15DA002	V48M28F15EE	15	115	45	FR939	280B	231	65	451	97.99	97.89	97.38	96.77	2.96	3.54	3.54	1.87	3.00	97.89	70
V48M28F3016	V30DA002	V48M28F30EE	30	115	45	FR940	280B	399	122	552	98.09	98.36	98.16	97.83	1.82	2.22	2.21	1.23	1.84	98.23	196
V48M28F4516	V45DA002	V48M28F45EE	45	115	45	FR940	280B	429	140	1072	98.40	98.32	97.91	97.43	2.34	3.71	3.81	2.97	2.38	98.40	146
V48M28F7516	V75DA002	V48M28F75EE	75	115	50	FR942	280B	605	210	1556	98.56	98.52	98.17	97.74	2.01	3.60	3.82	3.21	2.08	98.60	244
V48M28F1216	V12DA002	V48M28F12EE	112.5	115	50	FR943	280B	982	260	2138	98.72	98.67	98.34	97.94	1.74	3.99	4.53	4.13	1.85	98.74	265
V48M28F4916	V49DA002	V48M28F49EE	150	115	50	FR943	280B	1253	350	2651	98.75	98.72	98.43	98.06	1.59	3.56	3.97	3.56	1.75	98.83	447
V48M28F2216	V22DA002	V48M28F22EE	225	115	55	FR944	280B	1633	495	3262	98.90	98.91	98.68	98.39	1.26	4.24	5.3	5.10	1.45	98.94	610
V48M28F3316	V33DA002	V48M28F33EE	300	115	55	FR945	280B	2104	600	4068	98.99	98.99	98.77	98.50	1.14	3.62	4.52	4.35	1.23	99.02	675
V48M28B1516	V15DA003	V48M28B15EE	15	80	45	FR939	280B	237	65	508	97.97	97.90	97.41	96.82	3.63	3.81	3.81	2.40	2.96	97.89	70
V48M28B3016	V30DA003	V48M28B30EE	30	80	45	FR940	280B	433	140	421	98.12	98.54	98.45	98.24	1.37	2.11	2.15	1.63	1.40	98.23	165
V48M28B4516	V45DA003	V48M28B45EE	45	80	50	FR942	280B	570	193	531	98.03	98.57	98.56	98.42	1.12	2.31	3.61	2.01	1.37	98.40	270
V48M28B7516	V75DA003	V48M28B75EE	75	80	50	FR943	280B	982	256	848	98.58	98.87	98.78	98.60	1.00	2.42	2.75	2.51	1.13	98.60	302
V48M28B1216	V12DA003	V48M28B12EE	112.5	80	50	FR943	280B	1274	365	1336	98.66	98.90	98.78	98.57	1.03	2.36	2.62	2.34	1.19	98.74	516
V48M28B4916	V49DA003	V48M28B49EE	150	80	50	FR944	280B	1628	373	1273	98.73	99.05	99.02	98.90	0.74	2.36	2.9	2.77	0.85	98.83	721
V48M28B2216	V22DA003	V48M28B22EE	225	80	55	FR945	280B	2207	600	2576	98.84	98.99	98.86	98.65	0.84	2.70	3.17	2.96	1.14	98.94	731
V48M28B3316	V33DA003	V48M28B33EE	300	80	55	FR924	280B	2283	565	3642	99.00	99.12	98.99	98.80	3.84	4.32	4.51	4.39	1.03	99.02	694
3-Phase 480V Delta-480Y/277																					
V48M47T1516	V15DA007	V48M47T15EE	15	150	45	FR939	280B	227	65	489	97.94	97.77	97.21	96.54	3.25	3.69	3.71	1.77	3.26	97.89	67
V48M47T3016	V30DA007	V48M47T30EE	30	150	45	FR940	280B	395	122	665	98.12	98.24	97.93	97.51	2.20	2.51	2.53	1.16	2.25	98.23	195
V48M47T4516	V45DA007	V48M47T45EE	45	150	45	FR940	280B	433	127	1110	98.37	98.28	97.85	97.35	2.46	3.56	3.6	2.62	2.47	98.40	162
V48M47T7516	V75DA007	V48M47T75EE	75	150	50	FR942	280B	576	204	1543	98.60	98.54	98.19	97.77	2.00	3.33	3.45	2.77	2.06	98.60	282
V48M47T1216	V12DA007	V48M47T12EE	112.5	150	50	FR943	280B	970									4.78			98.74	
V48M47T4916	V49DA007	V48M47T49EE	150	150	50	FR943	280B	1253									3.11			98.83	
V48M47T2216	V22DA008	V48M47T22EE	225	150	55	FR944	280B													98.94	
V48M47T3316	V33DA007	V48M47T33EE	300	150	55	FR945	280B	2294									4.49			99.02	
3-Phase 480V Delta-240V Delta with 120V lighting tap																					
V48M22T1516	V15DA019	V48M22T15EE	15	150	45	FR939	282B	231	63	508	97.91	97.72	97.12	96.43	3.36	4.02	4.05	1.93	3.56	97.89	70
V48M22T3016	V30DA019	V48M22T30EE	30	150	45	FR940	282B	399	122	668	98.12	98.24	97.92	97.50	2.20	2.56	2.58	1.23	2.27	98.23	213
V48M22T4516	V45DA019	V48M22T45EE	45	150	45	FR940	282B	426	127	1295	98.39	98.14	97.60	96.99	2.84	4.13	4.17	3.02	2.88	98.40	146
V48M22T7516	V75DA019	V48M22T75EE	75	150	50	FR942	282B	581	204	1539	98.54	98.51	98.17	97.76	2.00	3.37	3.51	2.85	2.05	98.60	288
V48M22T1216	V12DA019	V48M22T12EE	112.5	150	50	FR943	282B	964	275	2247	98.69	98.62	98.27	97.85	1.85	3.90	4.3	3.81	2.00	98.74	298
V48M22T4916	V49DA019	V48M22T49EE	150	150	50	FR943	282B	1275									3.28			98.83	
V48M22T2216	V22DA019	V48M22T22EE	225	150	55	FR944	282B	1618									4.64			98.94	
V48M22T3316	V33DA019	V48M22T33EE	300	150	55	FR945	282B	2228									4.84			99.02	

Aluminum Windings									Losses (Watts)		Efficiency % at Temperature Rise +20C				% Regulation			DOE2016	Inrurh		
DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)
3-Phase 208V Delta-480Y/277																					
V29M47T1516	V15DA013	V29M47T15EE	15	150	45	FR939	E0342B	225									4.28			97.89	
V29M47T3016	V30DA102	V29M47T30EE	30	150	45	FR940	E0342B	402	126	749	97.79	98.15	97.94	97.88	1.80	2.10	2.55	1.16	2.08	98.23	153
V29M47T4516	V45DA013	V29M47T45EE	45	150	45	FR940	E0342B	436	127	1262	98.40	98.17	97.64	97.05	2.68	4.13	4.19	3.11	2.81	98.40	339
V29M47T7516	V75DA013	V29M47T75EE	75	150	50	FR942	E0342B	623	204	1690	98.49	98.41	98.03	97.56	2.13	4.38	4.66	3.94	2.49	98.60	655
V29R47T1216	V12DA107	V29R47T12EE	112.5	150	50	FR943	E0342B	540	270	2755	98.64	98.69	98.43	97.79	1.90	4.30	4.91	4.39	2.21	98.74	634
V29R47T4916	V49DA040	V29R47T49EE	150	150	50	FR943	E0351A	1253									4.00			98.83	
V29R47T2216		V29R47T22EE	225	150	55															98.94	
V29R47T3316		V29R47T33EE	300	150	55															99.02	
3-Phase 240V Delta-208Y/120																					
V24M28T1516		V24M28T15EE	15	150	45															97.89	
V24M28T3016	V30DA100	V24M28T30EE	30	150	45	FR940	280C	402	115	843	97.85	98.05	97.73	97.51	2.10	2.40	2.85	0.88	2.43	98.23	404
V24M28T4516	V45DA100	V24M28T45EE	45	150	45	FR940	280C	448	127	1237	98.37	98.18	97.67	97.10	2.69	3.96	4	2.91	2.75	98.40	146
V24M28T7516	V75DA100	V24M28T75EE	75	150	50	FR942	280C	622	172	1997	98.63	98.33	97.81	97.23	2.52	4.64	4.92	4.14	2.66	98.60	340
V24M28T1216		V24M28T12EE	112.5	150	50															98.74	
V24M28T4916		V24M28T49EE	150	150	50															98.83	
V24M28T2216		V24M28T22EE	225	150	55															98.94	
V24M28T3316		V24M28T33EE	300	150	55															99.02	
3-Phase 480V Delta-208Y/120 Electrostatically Shielded																					
V48M28T1516ES	V15DA004	V48M28E15EE	15	150	45	FR939	283B	219	65	499	97.78	97.67	97.11	96.44	3.32	3.71	3.74	1.76	3.30	97.89	70
V48M28T3016ES	V30DA004	V48M28E30EE	30	150	45	FR940	283B	389	125	661	98.09	98.23	97.92	97.51	2.15	2.53	2.54	1.22	2.23	98.23	218
V48M28T4516ES	V45DA004	V48M28E45EE	45	150	45	FR940	283B	425	140	1159	98.43	98.26	97.80	97.26	2.50	3.60	3.62	2.56	2.56	98.40	165
V48M28T7516ES	V75DA004	V48M28E75EE	75	150	50	FR942	283B	567	210	1673	98.41	98.38	98.01	97.56	2.11	3.42	3.55	2.85	2.12	98.60	270
V48M28T1216ES	V12DA004	V48M28E12EE	112.5	150	50	FR943	283B	991	275	2240	98.68	98.62	98.27	97.85	1.87	3.99	4.43	3.96	1.99	98.74	302
V48M28T4916ES	V49DA004	V48M28E49EE	150	150	50	FR943	283B	1267	350	2588	98.76	98.74	98.45	98.10	1.58	3.15	3.41	2.96	1.70	98.83	516
V48M28T2216ES	V22DA004	V48M28E22EE	225	150	55	FR944	283B	1571	489	3289	98.78	98.85	98.63	98.35	1.36	3.51	4.20	3.96	1.39	98.94	721
V48M28T3316ES	V33DA004	V48M28E33EE	300	150	55	FR945	283B	2097	640	4838	98.98	98.89	98.60	98.26	1.36	4.07	4.87	4.60	1.61	99.02	731
V48M28F1516ES	V15DA005	V48M28F15EEES	15	115	45	FR939	283B	225	65	454	97.91	97.85	97.34	96.74	3.02	3.56	3.56	1.87	3.03	97.89	70
V48M28F3016ES	V30DA005	V48M28F30EEES	30	115	45	FR940	283B	413	122	651	98.00	98.20	97.92	97.52	2.08	3.09	3.11	2.23	2.17	98.23	196
V48M28F4516ES	V45DA005	V48M28F45EEES	45	115	45	FR940	283B	462	140	1068	98.45	98.35	97.94	97.45	2.32	3.85	4.0	3.22	2.37	98.40	146
V48M28F7516ES	V75DA005	V48M28F75EEES	75	115	50	FR942	283B	593	210	1574	98.47	98.46	98.12	97.70	1.96	3.63	3.85	3.23	2.10	98.60	244
V48M28F1216ES	V12DA005	V48M28F12EEES	112.5	115	50	FR943	283B	982	260	2266	98.70	98.62	98.26	97.84	1.92	4.16	4.67	4.21	2.01	98.74	265
V48M28F4916ES	V49DA005	V48M28F49EEES	150	115	50	FR943	283B	1253	350	2627	98.77	98.74	98.44	98.08	1.55	3.73	4.22	3.84	1.75	98.83	447
V48M28F2216ES	V22DA005	V48M28F22EEES	225	115	55	FR944	283B	1607	489	3092	98.80	98.89	98.70	98.43	1.26	3.89	4.90	4.73	1.28	98.94	610
V48M28F3316ES	V33DA005	V48M28F33EEES	300	115	55	FR945	283B	2193	592	3874	98.90	98.97	98.78	98.53	1.18	3.77	4.80	4.65	1.21	99.02	675
V48M28B1516ES	V15DA006	V48M28B15EEES	15	80	45	FR939	283B	252												97.89	
V48M28B3016ES	V30DA006	V48M28B30EEES	30	80	45	FR940	283B	436	125	452	98.00	98.44	98.34	98.11	1.45	2.49	2.50	1.76	1.78	98.23	165
V48M28B4516ES	V45DA006	V48M28B45EEES	45	80	50	FR942	283B	609	193	531	98.03	98.57	98.56	98.42	1.12	2.31	2.43	2.01	1.37	98.40	270
V48M28B7516ES	V75DA006	V48M28B75EEES	75	80	50	FR943	283B	970	256	865	98.37	98.76	98.70	98.53	1.06	2.76	3.11	2.81	1.32	98.60	302
V48M28B1216ES	V12DA006	V48M28B12EEES	112.5	80	50	FR943	283B	1220	350	1220	98.51	98.85	98.79	98.62	0.99	2.37	2.61	2.31	1.21	98.74	516
V48M28B4916ES	V49DA006	V48M28B49EEES	150	80	55	FR944	283B	1571	489	1244	98.51	98.94	98.95	98.86	0.74	2.34	2.80	2.64	0.93	98.83	721
V48M28B2216ES	V22DA006	V48M28B22EEES	225	80	55	FR945	283B	2157	592	1999	98.74	99.04	98.99	98.86	0.80	2.73	3.35	3.20	0.99	98.94	731
V48M28B3316ES		V48M28B33EEES	300	80	55															99.02	

Aluminum Windings									Losses (Watts)		Efficiency % at Temperature Rise +20C				% Regulation			DOE2016	Inrush		
DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)
K4 3-Phase 480V Delta-208Y/120																					
H48M28T1516	H15DA004	H48M28T15EE	15	150	45	FR940	283B	407	91	223	97.48	98.18	98.18	98.00	1.43	1.77	1.77	0.96	1.49	97.89	70
H48M28T3016	H30DA004	H48M28T30EE	30	150	45	FR940	283B	437	122	637	98.04	98.24	97.96	97.57	2.10	2.67	2.66	1.60	2.12	98.23	196
H48M28T4516	H45DA004	H48M28T45EE	45	150	45	FR940	283B	439	140	1175	98.39	98.23	97.76	97.22	2.54	4.07	4.18	3.26	2.61	98.40	146
H48M28T7516	H75DA004	H48M28T75EE	75	150	50	FR942	283B	599	210	1718	98.52	98.41	98.01	97.54	2.22	3.86	4.05	3.34	2.29	98.60	244
H48M28T1216	H12DA004	H48M28T12EE	112.5	150	50	FR943	283B	987	365	1468	98.60	98.82	98.69	98.45	1.19	2.73	3.07	2.78	1.30	98.74	265
H48M28T4916	H49DA004	H48M28T49EE	150	150	50	FR943	283B	1237	350	2601	98.65	98.68	98.41	98.07	1.63	3.45	3.93	3.59	1.60	98.83	447
H48M28T2216	H22DA004	H48M28T22EE	225	150	55	FR944	283B	1642	471	3473	98.88	98.87	98.61	98.30	1.37	4.38	5.43	5.21	1.54	98.94	610
H48M28T3316	H33DA004	H48M28T33EE	300	150	55	FR945	283B	2394	600	4469	98.99	98.94	98.68	98.38	1.31	4.07	4.99	4.76	1.49	99.02	675
H48M28F1516	H15DA005	H48M28F15EE	15	115	45	FR940	283B	402	91	294	97.48	98.24	98.27	98.13	1.57	1.70	1.7	1.03	1.35	97.89	136
H48M28F3016	H30DA005	H48M28F30EE	30	115	45	FR940	283B	415	122	562	98.09	98.35	98.14	97.81	1.85	2.39	2.38	1.47	1.87	98.23	196
H48M28F4516	H45DA005	H48M28F45EE	45	115	45	FR942	283B	619	193	577	98.16	98.60	98.54	98.36	1.23	2.21	2.34	1.96	1.28	98.40	244
H48M28F7516	H75DA005	H48M28F75EE	75	115	50	FR943	283B	984	260	1083	98.49	98.71	98.55	98.29	1.30	2.92	3.25	2.91	1.44	98.60	265
H48M28F1216	H12DA005	H48M28F12EE	112.5	115	50	FR943	283B	1236	365	1322	98.62	98.88	98.78	98.57	1.07	2.60	2.98	2.74	1.18	98.74	447
H48M28F4916	H49DA005	H48M28F49EE	150	115	55	FR944	283B	1607	489	1374	98.49	98.90	98.89	98.77	0.84	2.59	3.27	3.15	0.86	98.83	610
H48M28F2216	H22DA005	H48M28F22EE	225	115	55	FR945	283B	2353	542	2597	98.82	98.98	98.85	98.64	0.95	3.04	3.68	3.49	1.15	98.94	675
H48M28F3316	H33DA005	H48M28F33EE	300	115	55	FR945	283B	2198	582	4188	98.88	99.00	98.84	98.61	3.16	3.59	3.73	3.53	1.20	99.02	1027
H48M28B1516	H15DA032	H48M28B15EE	15	80	45	FR939	283B	254	65	543	97.71	97.69	97.17	96.55	3.57	3.66	3.67	1.82	3.19	97.89	58
H48M28B3016	H30DA006	H48M28B30EE	30	80	45	FR940	283B	438	125	467	97.99	98.41	98.31	98.06	1.50	2.73	2.84	2.29	1.68	98.23	146
H48M28B4516	H45DA006	H48M28B45EE	45	80	45	FR942	283B	619	180	536	98.29	98.70	98.64	98.47	1.13	2.19	2.36	2.04	1.19	98.40	244
H48M28B7516	H75DA006	H48M28B75EE	75	80	50	FR943	283B	1027	260	899	98.49	98.80	98.70	98.51	1.09	2.74	3.18	2.95	1.20	98.60	265
H48M28B1216	H12DA006	H48M28B12EE	112.5	80	50	FR944	283B	1643	444	769	98.50	99.00	99.06	98.99	0.56	2.09	2.64	2.55	0.68	98.74	610
H48M28B4916	H49DA006	H48M28B49EE	150	80	55	FR944	283B	1607	489	1264	98.51	98.94	98.94	98.84	0.76	2.59	3.27	3.15	0.86	98.83	611
H48M28B2216	H22DA006	H48M28B22EE	225	80	60	FR924	283B	2680	621	2405	98.78	99.09	99.07	98.96	3.01	3.48	3.67	3.58	0.79	98.94	757

Aluminum Windings									Losses (Watts)		Efficiency % at Temperature Rise +20C				% Regulation			DOE2016	Inrush		
DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)
K13 3-Phase 480V Delta-208Y/120																					
N48M28T1516	N15DA004	N48M28T15EE	15	150	45	FR940	283B	406	91	221	97.43	98.17	98.18	98.00	1.40	1.68	1.68	0.84	1.45	97.89	70
N48M28T3016	N30DA004	N48M28T30EE	30	150	45	FR940	283B	395	122	649	98.01	98.21	97.92	97.53	2.13	2.46	2.47	1.23	2.14	98.23	196
N48M28T4516	N45DA004	N48M28T45EE	45	150	48	FR942	283B	594	193	624	98.12	98.55	98.46	98.25	1.33	2.30	2.40	1.96	1.39	98.40	244
N48M28T7516	N75DA004	N48M28T75EE	75	150	53	FR943	283B	1012	256	1089	98.50	98.71	98.55	98.29	1.39	3.09	3.5	3.18	1.45	98.60	265
N48M28T1216	N12DA004	N48M28T12EE	112.5	150	53	FR943	283B	1297	365	1501	98.60	98.81	98.67	98.42	1.21	2.81	3.18	2.89	1.33	98.74	447
N48M28T4916	N49DA004	N48M28T49EE	150	150	53	FR944	283B	1425	415	1654	98.78	98.98	98.87	98.68	0.91	2.98	3.64	3.47	1.10	98.83	610
N48M28T2216	N22DA004	N48M28T22EE	225	150	58	FR945	283B	2341	600	2472	98.86	99.02	98.89	98.70	0.97	3.05	3.75	3.59	1.10	98.94	675
N48M28F1516	N15DA005	N48M28F15EE	15	115	45	FR940	283B	412	91	290	97.58	98.29	98.32	98.17	1.50	1.61	1.61	0.91	1.33	97.89	136
N48M28F3016	N30DA005	N48M28F30EE	30	115	45	FR940	283B	437	140	504	98.08	98.41	98.26	97.98	1.65	2.84	2.98	2.46	1.68	98.23	196
N48M28F4516	N45DA005	N48M28F45EE	45	115	48	FR942	283B	619	193	577	98.24	98.65	98.57	98.38	1.23	2.18	2.29	1.90	1.28	98.40	244
N48M28F7516	N75DA005	N48M28F75EE	75	115	53	FR943	283B	977	260	988	98.48	98.75	98.63	98.40	1.17	2.76	3.11	2.82	1.32	98.60	265
N48M28F1216	N12DA005	N48M28F12EE	112.5	115	53	FR944	283B	1547	495	848	98.41	98.93	98.98	98.91	0.62	2.18	2.71	2.60	0.75	98.74	610
N48M28F4916	N49DA005	N48M28F49EE	150	115	53	FR944	283B	1682	380	1422	98.80	99.05	98.98	98.82	0.83	2.88	3.64	3.51	0.95	98.83	610
N48M28F2216	N22DA005	N48M28F22EE	225	115	58	FR924	283B	1927												98.94	
N48M28B1516		N48M28B15EE	15	80	45	FR940	283B													97.89	
N48M28B3016	N30DA006	N48M28B30EE	30	80	53	FR942	283B	612	193	241	97.30	98.34	98.56	98.57	0.76	1.63	1.78	1.56	0.86	98.23	244
N48M28B4516	N45DA006	N48M28B45EE	45	80	48	FR943	283B	927	221	333	97.89	98.67	98.81	98.78	0.70	1.60	1.82	1.66	0.74	98.40	244
N48M28B7516	N75DA006	N48M28B75EE	75	80	53	FR943	283B	1098	288	595	98.42	98.91	98.95	98.87	0.68	1.75	2.01	1.85	0.79	98.60	447
N48M28B1216	N12DA006	N48M28B12EE	112.5	80	58	FR944	283B	1607	489	711	98.14	98.83	98.96	98.94	0.57	1.94	2.45	2.36	0.64	98.74	610
N48M28B4916	N49DA006	N48M28B49EE	150	80	58	FR945	283B	2193	592	891	98.30	98.93	99.04	99.02	0.53	1.89	2.40	2.32	0.60	98.83	675

Copper Windings									Losses (Watts)		Efficiency % at Temperature Rise +20C				% Regulation			DOE2016	Inrush			
DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)	
3-Phase 480V Delta-208Y/120																						
V48M28T1516CU	V15DC001	V48M28T15CU	15	150	45	FR939	280B	250	75	391	97.71	97.89	97.54	97.06	2.60	2.83	2.88	1.23	2.60	97.89	109	
V48M28T3016CU	V30DC001	V48M28T30CU	30	150	45	FR940	280B	415	116	703	98.06	98.17	97.83	97.38	2.25	2.50	2.56	1.03	2.34	98.23	262	
V48M28T4516CU	V45DC001	V48M28T45CU	45	150	45	FR940	280B	478	123	1176	98.43	98.25	97.78	97.23	2.57	3.45	3.44	2.24	2.61	98.4	181	
V48M28T7516CU	V75DC001	V48M28T75CU	75	150	50	FR942	280B	676	210	1730	98.54	98.42	98.01	97.53	2.23	3.20	3.21	2.23	2.31	98.6	399	
V48M28T1216CU	V12DC001	V48M28T12CU	112.5	150	50	FR943	280B	1263	270	2202	98.74	98.65	98.31	97.90	1.81	3.42	3.63	3.06	1.96	98.74	351	
V48M28T4916CU	V49DC001	V48M28T49CU	150	150	50	FR943	280B	1410	360	2501	98.78	98.77	98.50	98.16	1.56	3.12	3.39	2.95	1.67	98.83	597	
V48M28T2216CU	V22DC001	V48M28T22CU	225	150	55	FR944	280B	1883	420	4395	98.88	98.72	98.35	97.93	1.78	4.44	5.14	4.75	1.95	98.94	540	
V48M28T3316CU	V33DC001	V48M28T33CU	300	150	55	FR945	280B	2485	507	4932	98.93	98.85	98.56	98.22	1.50	3.66	4.21	3.88	1.64	99.02	858	
V48M28F1516CU	V15DC002	V48M28F15CU	15	115	45	FR939	280B	241	75	368	97.71	97.95	97.64	97.19	2.44	2.76	2.77	1.37	2.41	97.89	109	
V48M28F3016CU	V30DC002	V48M28F30CU	30	115	45	FR940	280B	433	116	634	98.09	98.26	97.98	97.59	2.01	2.24	2.30	0.90	2.12	98.23	235	
V48M28F4516CU	V45DC002	V48M28F45CU	45	115	45	FR940	280B	471	123	1112	98.43	98.30	97.87	97.36	2.42	3.45	3.46	2.42	2.47	98.4	170	
V48M28F7516CU	V75DC002	V48M28F75CU	75	115	50	FR942	280B	665	214	1531	98.50	98.50	98.17	97.76	1.98	2.95	2.97	2.10	2.10	98.6	378	
V48M28F1216CU	V12DC002	V48M28F12CU	112.5	115	50	FR943	280B	1271	270	2057	98.70	98.69	98.38	98.00	1.72	3.62	4.00	3.56	1.83	98.74	307	
V48M28F4916CU	V49DC002	V48M28F49CU	150	115	50	FR943	280B	1422	360	1796	98.90	99.00	98.84	98.62	0.59	2.99	3.56	3.35	1.20	98.83	546	
V48M28F2216CU	V22DC002	V48M28F22CU	225	115	55	FR944	280B	2082	420	4147	98.90	98.77	98.43	98.03	1.64	4.55	5.41	5.09	1.84	98.94	455	
V48M28F3316CU	V33DC002	V48M28F33CU	300	115	55	FR945	280B	2568	570	4846	98.93	98.87	98.58	98.25	1.41	4.03	4.80	4.52	1.62	99.02	707	
V48M28B1516CU	V15DC003	V48M28B15CU	15	80	45	FR939	280B	239	75	365	97.94	98.08	97.73	97.27	2.42	2.97	2.96	1.69	2.43	97.89	92	
V48M28B3016CU	V30DC003	V48M28B30CU	30	80	45	FR940	280B	466	118	432	98.27	98.60	98.48	98.24	1.41	2.05	2.06	1.47	1.45	98.23	181	
V48M28B4516CU	V45DC003	V48M28B45CU	45	80	45	FR942	280B	667	210	570	98.35	98.70	98.62	98.42	1.15	1.91	1.95	1.48	1.27	98.4	399	
V48M28B7516CU	V75DC003	V48M28B75CU	75	80	50	FR943	280B	1147	270	892	98.47	98.79	98.71	98.52	1.06	2.41	2.68	2.40	1.19	98.6	351	
V48M28B1216CU	V12DC003	V48M28B12CU	112.5	80	50	FR943	280B	1385	360	1271	98.66	98.92	98.82	98.62	1.08	2.38	2.69	2.44	1.13	98.74	597	
V48M28B4916CU	V49DC003	V48M28B49CU	150	80	50	FR944	280B	1895	420	1867	98.74	98.91	98.76	98.54	0.96	2.96	3.48	3.25	1.24	98.83	540	
V48M28B2216CU	V22DC003	V48M28B22CU	225	80	55	FR945	280B	2385	513	2341	98.89	99.06	98.94	98.76	0.86	2.66	3.20	3.03	1.04	98.94	707	
3-Phase 480V Delta-480Y/277																						
V48M47T1516CU	V15DC007	V48M47T15CU	15	150																97.89		
V48M47T3016CU	V30DC038	V48M47T30CU	30	150	45	FR940	280B	431	116	522	98.32	98.52	98.30	97.98	1.32	2.41	2.42	1.68	1.74	98.23		
V48M47T4516CU	V45DC007	V48M47T45CU	45	150	45	FR940	280B	457	123	1239	98.50	98.24	97.71	97.12	2.75	3.77	3.77	2.57	2.75	98.4	161	
V48M47T7516CU	V75DC007	V48M47T75CU	75	150	50	FR942	280B	673	214	1514	98.50	98.51	98.18	97.78	1.99	2.83	2.84	2.00	2.02	98.6	453	
V48M47T1216CU	V12DC007	V48M47T12CU	112.5	150	50	FR943	280B	1110	270	2001	98.70	98.70	98.41	98.05	1.73	3.25	3.5	3.01	1.78	98.74		
V48M47T4916CU		V48M47T49CU	150	150																98.83		
V48M47T2216CU		V48M47T22CU	225	150																98.94		
V48M47T3316CU		V48M47T33CU	300	150																99.02		
3-Phase 480V Delta-240V Delta with 120V lighting tap																						
V48M22T1516CU		V48M22T15CU	15	150																97.89		
V48M22T3016CU		V48M22T30CU	30	150																98.23		
V48M22T4516CU	V45DC019	V48M22T45CU	45	150	45	FR940	282B	475	123	1131	98.44	98.30	97.84	97.32	2.48	3.43	3.43	2.34	2.51	98.4		
V48M22T7516CU	V75DC019	V48M22T75CU	75	150	50	FR942	282B	691	206	1584	98.51	98.48	98.12	97.70	2.05	2.89	2.89	1.97	2.11	98.6	404	
V48M22T1216CU		V48M22T12CU	112.5	150																98.74		
V48M22T4916CU		V48M22T49CU	150	150																98.83		
V48M22T2216CU		V48M22T22CU	225	150																98.94		
V48M22T3316CU		V48M22T33CU	300	150																99.02		

Copper Windings									Losses (Watts)		Efficiency % at Temperature Rise +20C				% Regulation			DOE2016	Inrush				
DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)		
3-Phase 208V Delta-480Y/277																							
V29M47T1516CU		V29M47T15CUEE	15	150																	97.89		
V29M47T3016CU		V29M47T30CUEE	30	150																		98.23	
V29M47T4516CU		V29M47T45CUEE	45	150																		98.4	
V29M47T7516CU		V29M47T75CUEE	75	150																		98.6	
V29R47T1216CU	V12DC036	V29R47T12CUEE	112.5	150	50	FR943	E0351A	1283	260	2283	98.80	98.66	98.28	97.85	1.83	3.68	3.95	3.39	2.03		98.74		
V29R47T4916CU		V29R47T49CUEE	150	150																		98.83	
V29R47T2216CU		V29R47T22CUEE	225	150																		98.94	
V29R47T3316CU		V29R47T33CUEE	300	150																		99.02	
3-Phase 240V Delta-208Y/120																							
V24M28T1516CU		V24M28T15CUEE	15	150																		97.89	
V24M28T3016CU		V24M28T30CUEE	30	150																		98.23	
V24M28T4516CU		V24M28T45CUEE	45	150																		98.4	
V24M28T7516CU		V24M28T75CUEE	75	150																		98.6	
V24M28T1216CU		V24M28T12CUEE	112.5	150																		98.74	
V24M28T4916CU		V24M28T49CUEE	150	150																		98.83	
V24M28T2216CU		V24M28T22CUEE	225	150																		98.94	
V24M28T3316CU		V24M28T33CUEE	300	150																		99.02	
3-Phase 480V Delta-208Y/120 Electrostatically Shielded																							
V48M28T1516CUES	V15DC004	V48M28E15CUEE	15	150	45	FR939	283B	236	75	414	97.86	97.91	97.50	96.96	2.73	3.13	3.15	1.52	2.76		97.89	109	
V48M28T3016CUES	V30DC004	V48M28E30CUEE	30	150	45	FR940	283B	415	116	529	98.12	98.41	98.22	97.91	1.73	2.41	2.41	1.64	1.76		98.23	262	
V48M28T4516CUES	V45DC004	V48M28E45CUEE	45	150	45	FR940	283B	473	118	1271	98.28	98.10	97.59	97.01	2.75	3.80	3.80	2.60	2.77		98.4	181	
V48M28T7516CUES	V75DC004	V48M28E75CUEE	75	150	50	FR942	283B	675	206	1615	98.39	98.40	98.06	97.63	2.07	2.84	2.84	1.94	2.08		98.6	399	
V48M28T1216CUES	V12DC004	V48M28E12CUEE	112.5	150	50	FR943	283B	1085	251	2223	98.63	98.59	98.25	97.85	1.87	3.38	3.63	3.11	1.88		98.74	351	
V48M28T4916CUES	V49DC004	V48M28E49CUEE	150	150	50	FR943	283B	1328	350	2351	98.69	98.77	98.54	98.23	1.47	2.77	3.02	2.64	1.46		98.83	597	
V48M28T2216CUES	V22DC004	V48M28E22CUEE	225	150	55	FR944	283B	1938	420	4369	98.90	98.73	98.36	97.95	1.75	4.58	5.37	5.01	1.94		98.94	540	
V48M28T3316CUES	V33DC004	V48M28E33CUEE	300	150	55	FR945	283B	2354	561	4491	98.89	98.89	98.65	98.34	1.39	3.04	3.48	3.19	1.38		99.02	858	
V48M28F1516CUES	V15DC005	V48M28F15CUEEES	15	115	45	FR939	283B	238	75	368	97.83	98.01	97.68	97.23	2.44	2.90	2.90	1.54	2.46		97.89	109	
V48M28F3016CUES	V30DC005	V48M28F30CUEEES	30	115	45	FR940	283B	428	116	642	98.06	98.24	97.96	97.56	2.06	2.36	2.39	1.07	2.14		98.23	235	
V48M28F4516CUES	V45DC005	V48M28F45CUEEES	45	115	45	FR940	283B	480	123	1135	98.44	98.29	97.84	97.31	2.51	3.51	3.52	2.45	2.52		98.4	170	
V48M28F7516CUES	V75DC005	V48M28F75CUEEES	75	115	50	FR942	283B	668	214	1600	98.54	98.48	98.12	97.68	2.01	3.03	3.05	2.18	2.13		98.6	378	
V48M28F1216CUES	V12DC005	V48M28F12CUEEES	112.5	115	50	FR943	283B	1282	270	2110	98.77	98.70	98.37	97.98	1.71	3.76	4.17	3.72	1.88		98.74	307	
V48M28F4916CUES	V49DC005	V48M28F49CUEEES	150	115	50	FR943	283B	1337	350	2234	98.71	98.80	98.59	98.31	1.38	2.94	3.34	3.05	1.37		98.83	546	
V48M28F2216CUES	V22DC005	V48M28F22CUEEES	225	115	55	FR944	283B	1857	418	3811	98.85	98.80	98.50	98.16	1.55	4.15	5.03	4.78	1.58		98.94	455	
V48M28F3316CUES	V33DC005	V48M28F33CUEEES	300	115	55	FR945	283B	2478	561	4198	98.91	98.94	98.72	98.44	1.28	3.41	4.14	3.94	1.29		99.02	707	
V48M28B1516CUES	V15DC006	V48M28B15CUEEES	15	80	45	FR939	283B	249	75	366	97.99	98.09	97.73	97.27	2.43	3.02	3.01	1.76	2.44		97.89	108	
V48M28B3016CUES	V30DC006	V48M28B30CUEEES	30	80	45	FR940	283B	459	118	433	98.28	98.61	98.48	98.24	1.41	2.05	2.06	1.47	1.44		98.23	181	
V48M28B4516CUES	V45DC006	V48M28B45CUEEES	45	80	50	FR942	283B	675	206	489	97.94	98.56	98.59	98.48	1.03	1.70	1.70	1.16	1.25		98.4	399	
V48M28B7516CUES	V75DC006	V48M28B75CUEEES	75	80	50	FR943	283B	1163	270	892	98.57	98.84	98.74	98.54	1.06	2.43	2.71	2.44	1.19		98.6	351	
V48M28B1216CUES	V12DC006	V48M28B12CUEEES	112.5	80	50	FR943	283B	1328	350	1125	98.53	98.89	98.85	98.71	0.91	2.08	2.27	1.98	1.09		98.74	597	
V48M28B4916CUES	V49DC006	V48M28B49CUEEES	150	80	50	FR944	283B	2092	420	1794	98.75	98.93	98.80	98.58	0.97	3.39	4.20	4.03	1.20		98.83	540	
V48M28B2216CUES	V22DC006	V48M28B22CUEEES	225	80	55	FR945	283B	2478	561	2178	98.78	99.03	98.95	98.80	0.87	2.56	3.11	2.95	0.96		98.94	707	

Copper Windings									Losses (Watts)		Efficiency % at Temperature Rise +20C				% Regulation			DOE2016	Inrush		
DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)
K4 3-Phase 480V Delta-208Y/120																					
H48M28T1516CU	H15DC004	H48M28T15CU EE	15	150	45	FR940	283B	418	86	264	97.55	98.12	98.03	97.78	1.74	1.85	1.9	0.72	1.76	97.89	154
H48M28T3016CU	H30DC004	H48M28T30CU EE	30	150	45	FR940	283B	458	123	514	98.06	98.40	98.23	97.94	1.71	2.38	2.38	1.61	1.75	98.23	170
H48M28T4516CU	H45DC004	H48M28T45CU EE	45	150	45	FR942	283B	677	190	651	98.13	98.53	98.43	98.20	1.40	1.91	1.90	1.23	1.45	98.4	378
H48M28T7516CU	H75DC004	H48M28T75CU EE	75	150	50	FR943	283B	1274	270	793	98.58	98.90	98.83	98.67	0.94	1.91	2.05	1.76	1.06	98.6	307
H48M28T1216CU	H12DC004	H48M28T12CU EE	112.5	150	50	FR943	283B	1818	360	1307	98.63	98.88	98.78	98.58	1.00	2.31	2.56	2.28	1.16	98.74	546
H48M28T4916CU	H49DC004	H48M28T49CU EE	150	150	50	FR944	283B	2105	439	1955	98.71	98.87	98.71	98.48	1.20	3.32	3.98	3.76	1.30	98.83	455
H48M28T2216CU	H22DC004	H48M28T22CU EE	225	150	55	FR945	283B	2674	570	2462	98.89	99.04	98.91	98.71	1.03	3.05	3.76	3.60	1.09	98.94	707
H48M28T3316CU	H33DC004	H48M28T33CU EE	300	150	55	FR945	283B	2737	570	4335	99.02	98.97	98.72	98.42	1.30	4.26	5.2	4.95	1.58	99.02	720
H48M28F1516CU	H15DC005	H48M28F15CU EE	15	115	45	FR940	283B	414	86	338	97.50	98.12	98.06	97.83	1.88	1.98	1.98	1.05	1.68	97.89	154
H48M28F3016CU	H30DC005	H48M28F30CU EE	30	115	45	FR940	283B	417	123	515	98.17	98.44	98.26	97.97	1.69	2.31	2.31	1.55	1.72	98.23	170
H48M28F4516CU	H45DC005	H48M28F45CU EE	45	115	45	FR942	283B	684	190	562	98.24	98.65	98.59	98.41	1.22	1.71	1.71	1.17	1.25	98.4	378
H48M28F7516CU	H75DC005	H48M28F75CU EE	75	115	50	FR943	283B	1083	270	843	98.69	98.93	98.82	98.63	1.08	2.11	2.24	1.88	1.21	98.6	307
H48M28F1216CU	H12DC005	H48M28F12CU EE	112.5	115	50	FR943	283B	1394	350	1323	98.60	98.87	98.77	98.57	1.04	2.44	2.74	2.47	1.18	98.74	546
H48M28F4916CU	H49DC005	H48M28F49CU EE	150	115	55	FR944	283B	1857	418	1694	98.62	98.89	98.80	98.61	1.03	2.77	3.35	3.18	1.05	98.83	455
H48M28F2216CU	H22DC005	H48M28F22CU EE	225	115	55	FR945	283B	2478	561	2361	98.76	98.99	98.89	98.72	0.96	2.56	3.11	2.95	0.96	98.94	707
H48M28B1516CU		H48M28B15CU EE	15	80	45	FR940	283B													97.89	
H48M28B3016CU	H30DC006	H48M28B30CU EE	30	80	45	FR940	283B	482	110	444	98.24	98.57	98.44	98.20	1.47	2.11	2.12	1.52	1.48	98.23	170
H48M28B4516CU	H45DC006	H48M28B45CU EE	45	80	45	FR942	283B	669	195	509	98.07	98.62	98.61	98.47	1.08	1.57	1.57	1.09	1.13	98.4	378
H48M28B7516CU	H75DC006	H48M28B75CU EE	75	80	50	FR943	283B	1210	243	874	98.54	98.84	98.74	98.56	1.07	2.49	2.83	2.58	1.17	98.6	307
H48M28B1216CU	H12DC006	H48M28B12CU EE	112.5	80	50	FR943	283B	1287	360	1293	98.65	98.91	98.80	98.60	0.91	2.44	2.76	2.51	1.15	98.74	546
H48M28B4916CU	H49DC006	H48M28B49CU EE	150	80	50	FR944	283B	2138	420	1190	98.85	99.13	99.09	98.98	0.44	2.68	3.47	3.38	0.79	98.83	455
H48M28B2216CU	H22DC006	H48M28B22CU EE	225	80	55	FR945	283B	2478	561	2178	98.78	99.03	98.95	98.80	0.87	2.56	3.11	2.95	0.96	98.94	707

Copper Windings									Losses (Watts)		Efficiency % at Temperature Rise +20C				% Regulation			DOE2016	Inrush		
DOE2016 Catalog Number	Style	TP1 Catalog Number	kVA	Temp Rise °C	Sound Level dB (per NEMA ST-20)	Frame	Wrg Diag	Weight (lbs.)	No Load	Total @ Rise + 20C	0.25	0.50	0.75	Full Load	100% PF	80% PF	%Imp Trise +20C	X Trise +20C	R Trise +20C	Efficiency (@ 35% Load 75°C)	Practical Max (Amps)
K13 3-Phase 480V Delta-208Y/120																					
N48M28T1516CU	N15DC004	N48M28T15CU EE	15	150	45	FR940	283B	430	116	306	97.53	98.29	98.34	98.21	1.41	1.51	1.51	0.82	1.27	97.89	235
N48M28T3016CU	N30DC004	N48M28T30CU EE	30	150	45	FR940	283B	480	118	542	98.14	98.41	98.20	97.88	1.76	2.49	2.49	1.71	1.81	98.23	170
N48M28T4516CU	N45DC004	N48M28T45CU EE	45	150	48	FR942	283B	658	190	619	98.13	98.55	98.47	98.27	1.35	1.83	1.83	1.21	1.38	98.4	378
N48M28T7516CU	N75DC004	N48M28T75CU EE	75	150	53	FR943	283B	1115	245	1029	98.52	98.75	98.60	98.36	1.27	2.58	2.80	2.44	1.37	98.6	307
N48M28T1216CU	N12DC004	N48M28T12CU EE	112.5	150	53	FR943	283B	1424	380	1135	98.67	98.97	98.90	98.74	0.93	2.94	3.64	3.49	1.03	98.74	546
N48M28T4916CU	N49DC004	N48M28T49CU EE	150	150	53	FR944	283B	2132	418	1760	98.81	98.97	98.83	98.62	1.13	3.15	3.65	3.38	1.39	98.83	455
N48M28T2216CU	N22DC004	N48M28T22CU EE	225	150	58	FR945	283B	2628	561	2569	98.83	98.99	98.86	98.65	1.02	3.00	3.64	3.46	1.14	98.94	707
N48M28F1516CU	N15DC004	N48M28F15CU EE	15	115	45	FR940	283B	398	116	289	97.65	98.39	98.45	98.35	1.36	1.51	1.51	0.98	1.15	97.89	235
N48M28F3016CU	N30DC005	N48M28F30CU EE	30	115	48	FR940	283B	478	123	485	98.40	98.60	98.41	98.11	1.59	2.19	2.19	1.48	1.62	98.23	170
N48M28F4516CU	N45DC005	N48M28F45CU EE	45	115	53	FR942	283B	658	190	581	98.20	98.62	98.55	98.36	1.25	1.81	1.82	1.27	1.30	98.4	378
N48M28F7516CU	N75DC005	N48M28F75CU EE	75	115	53	FR943	283B	1115	245	995	98.48	98.74	98.62	98.40	1.18	2.56	2.81	2.48	1.33	98.6	307
N48M28F1216CU	N12DC005	N48M28F12CU EE	112.5	115	58	FR944	283B	2150	337	1589	98.64	98.91	98.82	98.63	3.07	3.50	3.65	3.48	1.11	98.74	315
N48M28F4916CU	N49DC005	N48M28F49CU EE	150	115	58	FR944	283B	2282	418	2000	98.72	98.87	98.70	98.45	1.16	4.25	5.43	5.26	1.33	98.83	455
N48M28F2216CU	N22DC005	N48M28F22CU EE	225	115	58	FR945	283B	3043	695	2226	98.78	99.14	99.15	99.07	2.88	3.35	3.56	3.49	0.68	98.94	898
N48M28B1516CU	N15DC006	N48M28B15CU EE	15	80	45	FR940	283B	434	116	263	97.66	98.46	98.57	98.51	1.08	1.17	1.17	0.64	0.98	97.89	235
N48M28B3016CU	N30DC006	N48M28B30CU EE	30	80	48	FR940	283B	507	110	449	98.23	98.56	98.43	98.18	1.47	2.09	2.10	1.47	1.50	98.23	170
N48M28B4516CU	N45DC006	N48M28B45CU EE	45	80	53	FR942	283B	678	206	496	97.94	98.55	98.58	98.46	1.04	1.69	1.72	1.27	1.15	98.4	378
N48M28B7516CU	N75DC006	N48M28B75CU EE	75	80	53	FR943	283B	1490	290	717	98.35	98.82	98.82	98.70	0.88	2.23	2.60	2.42	0.96	98.6	307
N48M28B1216CU	N12DC006	N48M28B12CU EE	112.5	80	53	FR944	283B	1927									3.94			98.74	315
N48M28B4916CU	N49DC006	N48M28B49CU EE	150	80	58	FR944	282B	2132									3.65			98.83	