

AC CONTACTOR



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ISO9001

ISO14001

OHSAS18001

CJX2-D AC CONTACTOR

APPLICATION

CJX2 series AC Contactor is suitable for using in the circuits up to the rated voltage 660V AC50Hz or 60Hz, rated current up to 620A, for making, breaking, frequently starting & controlling the AC motor. Combined with the auxiliary contact block, timer delay & machine-interlocking device etc, it becomes the delay contactor, mechanical interlocking contactor, star-delta starter. With the thermal relay, it is combined into the electromagnetic starter. The product conforms to IEC60947-4-1 standard.



CJX2-D 09/12/18/25/32



CJX2-D 40/50/65/80/95



CJX2-D115~620

SPECIFICATION

Type		CJX2-D09	CJX2-D12	CJX2-D18	CJX2-D25	CJX2-D32	CJX2-D40	CJX2-D50	CJX2-D65	CJX2-D80	CJX2-D95
Rated working current (A)	AC3	9	12	18	25	32	40	50	65	80	95
	AC4	3.5	5	7.7	8.5	12	18.5	24	28	37	44
	220/230V	2.2	3	4	5.5	7.5	11	15	18.5	22	25
	380/400V	4	5.5	7.5	11	15	18.5	22	30	37	45
Standard power ratings of 3-phase motors 50/60Hz in category AC-3	415V	4	5.5	9	11	15	22	25	37	45	45
	500V	5.5	7.5	10	15	18.5	22	30	37	55	55
	660/690V	5.5	7.5	10	15	18.5	30	33	37	45	55
Rated heat current (A)		20	20	32	40	50	60	80	80	125	125
Electrical life	AC3 (x10 ⁴)	100	100	100	100	80	80	60	60	60	60
	AC4 (x10 ⁴)	20	20	20	20	20	15	15	15	10	10
Mechanical life (x10 ⁴)		1000	1000	1000	1000	800	800	800	800	600	600
Number of the contacts	3P+NO						3P+NC+NO				
	3P+NC										

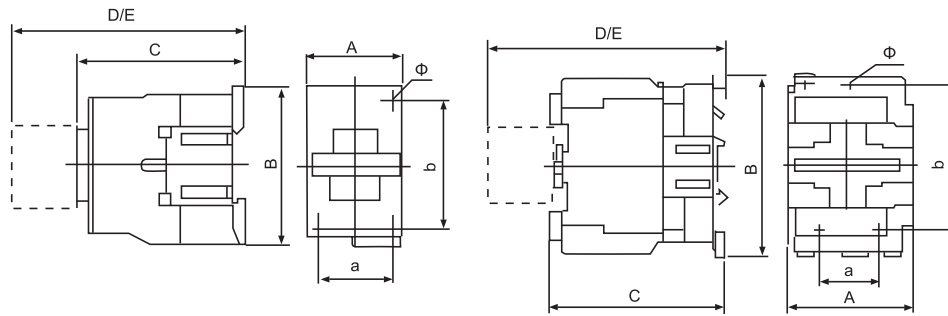
Type		CJX2-D115	CJX2-D150	CJX2-D170	CJX2-D205	CJX2-D245	CJX2-D300	CJX2-D410	CJX2-D475	CJX2-D620
Rated working current (A)	AC3	115	150	170	205	245	300	410	475	620
	AC4	52	60	75	85	105	117	138	147	180
	220/230V	30	40	55	63	75	100	110	147	200
	380/400V	55	75	90	110	132	160	220	265	335
Standard power ratings of 3-phase motors 50/60Hz in category AC-3	415V	59	80	100	110	132	180	220	280	375
	500V	75	90	110	129	160	200	250	355	400
	660/690V	80	100	110	129	160	220	280	355	450
Rated heat current (A)		200	250	250	275	315	400	500	700	1000
Electrical life	AC3 (x10 ⁴)	200	60	60	50	50	50	30	30	20
	AC4 (x10 ⁴)	15	15	15	15	15	15	8	8	5
Mechanical life (x10 ⁴)		300	300	300	300	300	300	100	100	100

CJX2-D AC CONTACTOR

STANDARD CONTROL CIRCUIT VOLTAGE

Volts	24	42	48	110	220	230	240	380	400	415	440	500	600
50Hz	B5	D5	E5	F5	M5	P5	U5	Q5	V5	N5	R5	S5	Y5
60Hz	B6	D6	E6	F6	M6	-	U6	Q6	-	-	R6	-	-
50/60Hz	B7	D7	E7	F7	M7	P7	U7	Q7	V7	N7	R7	-	-

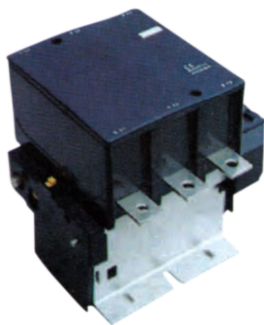
OUTLINE AND MOUNTING DIMENSION



CJX2-D09~32

CJX2-D40~95

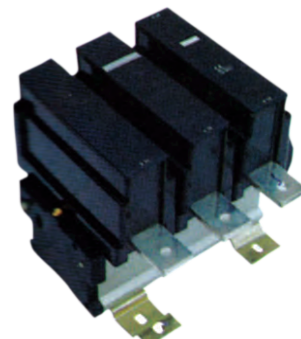
Type	A	B	C	D	E	a	b	Φ
CJX2-D09~12	47	76	82	113	133	34/35	50/60	4.5
CJX2-D18	47	76	87	118	138	34/35	50/60	4.5
CJX2-D25	57	86	95	126	146	40	48	4.5
CJX2-D32	57	86	100	131	151	40	48	4.5
CJX2-D40~65	77	129	116	145	165	40	100/110	6.5
CJX2-D80~95	87	129	127	175	195	40	100/110	6.5



CJX2-D205



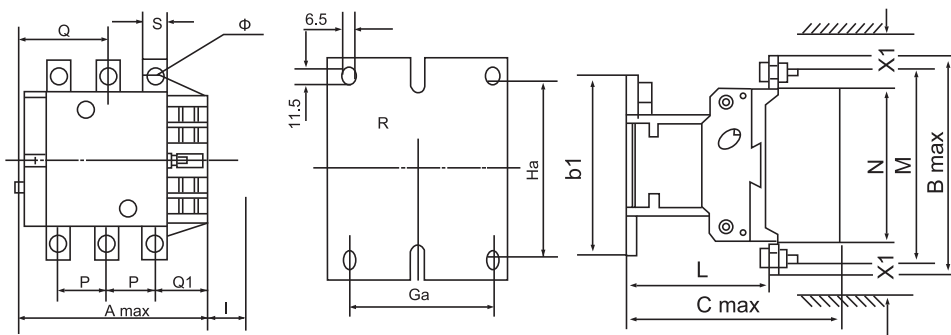
CJX2-D300



CJX2-D620

CJX2-D AC CONTACTOR






APPLICATION



CJX2-D115~620

Type	A	B	C	b1	P	Q	S	Q1	M	N	L	Φ	Ga	Ha
CJX2-D115	158	120	132	158	35	60	17	25	134	96.2	75	M6	-	-
CJX2-D150	158	120	132	158	35	60	17	25	134	96.2	75	M6	-	-
CJX2-D170	158	120	132	158	35	60	17	25	134	96.2	75	M6	-	-
CJX2-D205	168.5	174	181	137	40	69	20	59.4	154	127	113.5	M8	80	120-106
CJX2-D245	168.5	197	181	137	48	69	25	51.5	172	127	113.5	M10	80	120-106
CJX2-D300	213	206	219	145	48	91	25	74	181	158	145	M10	80	120-106
CJX2-D410	213	206	219	209	48	91	25	74	181	158	145	M10	80	120-106
CJX2-D475	233	238	232	209	55	108	30	77	208	172	146	M10	80	180
CJX2-D620	309	304	255	280	80	140	40	89	264	202	155	M12	80	180

AUXILIARY CONTACT BLOCK

Appellation	Type	
Auxiliary instantaneous contactor block, contactor I	LA1-DN10C	
	LA1-DN01C	 1 - - 1
Appellation	Type	
Auxiliary instantaneous contactor block, contactor II	LA1-DN11C	
	LA1-DN20C	
	LA1-DN02C	 1 1 2 0 0 2

CJX2N-D AC CONTACTOR

APPLICATION

CJX2N series AC contactor is suitable for frequency 50/60Hz, rated insulation voltage up to 1000V, rated operation current 9~150A under AC-3 duty. It is mainly used for making/breaking electric circuits at a long distance & for frequent starting/stopping & controlling AC Motors. It is used in combination with thermal relay to compose a magnetic motor starter. The products comply with IEC60947-4-1 standard.



CJX2N-09/12/18



CJX2N-25/32/38



CJX2N-40/50/65/80/95



CJX2N-115

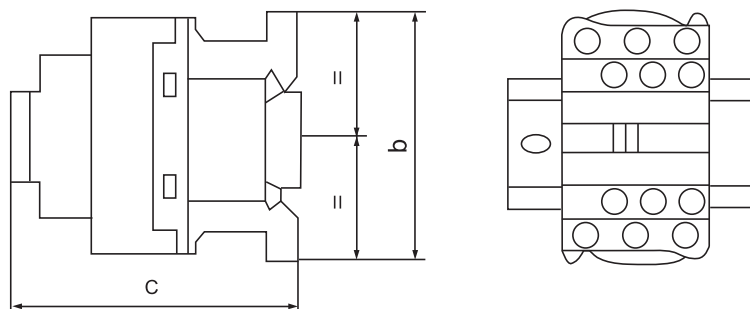
SPECIFICATION

Type	CJX2N-09	CJX2N-12	CJX2N-18	CJX2N-25	CJX2N-32	CJX2N-38	CJX2N-40		
Rated working current Ie (A) AC-3 Ue≤440V	9	12	18	25	32	38	40		
Rated hear current Ith (A)	25	25	32	40	50	50	60		
Rated insulation voltage Ui (V)	690	690	690	690	690	690	1000		
Rated operating voltage Ue (V) Max	690	690	690	690	690	690	1000		
Rated operational power in AC-3 Pe (KW)	220/230V	2.2	3	4	5.5	7.5	9	11	
	380/400V	4	5.5	7.5	11	15	18.5	18.5	
	415/440V	4	5.5	9	11	15	18.5	22	
	500V	5.5	7.5	10	15	18.5	18.5	22	
Rated operational power in AC-4 Pe (KW)	220/230V	1.5	1.5	2.2	3	4	4	4	
	380/400V	2.2	3.7	4	5.5	7.5	7.5	9	
	415/440V	2.2	3	3.7	5.5	7.5	7.5	9/11	
	500V	3	4	5.5	7.5	9	9	11	
660/690V	4	5.5	7.5	10	11	11	15		
	Frequency of operation (1/h)	1200	1200	1200	1200	1000	1000	1000	
	Electrical endurance (x10 ⁴)	AC-3	100	100	100	100	80	80	80
		AC-4	20	20	20	20	20	20	15
Mechanical endurance (x10 ⁶)	15	15	15	15	15	15	6		
Operating voltage range of coil	Close voltage:(0.85~1.1)Us Open voltage:(20%~75%)Us								
Power consumption of coil (VA)	Attracting	7	7	7	7	7	7	20	
	Starting	70	70	70	70	70	70	200	
Rated insulation voltage of auxiliary contacts (V)	690	690	690	690	690	690	690		
Conventional thermal current of auxiliary contacts (A)	10	10	10	10	10	10	10		
Auxiliary contacts specification	AC-15:360VA DC-13:33W								

CJX2N-D AC CONTACTOR

Type	CJX2N-50	CJX2N-65	CJX2N-80	CJX2N-95	CJX2N-115	CJX2N-150	
Rated working current I_e (A) AC-3 $U_e \leq 440V$	50	65	80	95	115	150	
Rated hear current I_{th} (A)	80	80	125	125	200	200	
Rated insulation voltage U_i (V)	1000	1000	1000	1000	1000	1000	
Rated operating voltage U_e (V) Max	1000	1000	1000	1000	1000	1000	
Rated operational power in AC-3 P_e (KW)	220/230V	15	18.5	22	25	30	40
	380/400V	22	30	37	45	55	75
	415/440V	25/30	37	45	45	59	80
	500V	30	37	55	55	75	90
	660/690V	33	37	45	45	80	100
Rated operational power in AC-4 P_e (KW)	220/230V	5.5	7.5	7.5	9	9	11
	380/400V	11	11	15	15	18.5	22
	415/440V	11	11/15	15	15	18.5	22
	500V	15	18.5	22	22	30	37
	660/690V	18.5	22	25	25	30	45
Frequency of operation (l/h)	1000	1000	750	750	750	750	
Electrical endurance ($\times 10^4$)	AC-3	60	60	60	60	60	60
	AC-4	15	15	15	15	15	15
Mechanical endurance ($\times 10^6$)	6	6	4	4	4	4	
Operating voltage range of coil	Close voltage:(0.85~1.1) U_s Open voltage:(20%~75%) U_s						
Power consumption of coil (VA)	Attracting	20	20	20	20	22	22
	Starting	200	200	200	200	300	300
Rated insulation voltage of auxiliary contacts (V)	690	690	690	690	690	690	
Conventional thermal current of auxiliary contacts (A)	10	10	10	10	10	10	
Auxiliary contacts specification	AC-15:360VA DC-13:33W						

OUTLINE AND MOUNTING DIMENSION



	09	12	18	25	32	38	40	50	65	80	95	115	150
b	76.6	76.6	76.6	76.6	76.6	76.6	127	127	127	127	127	158	158
c	87	87	87	94	94	94	116	116	116	123.8	123.8	132	132

PLC1-F AC CONTACTOR

APPLICATION

PLC1-F series AC Contactor is applicable to the circuits up to the rated voltage 1000V AC 50Hz or 60Hz, rated current up to 780A, for long distance breaking circuit and frequently starting or controlling the motor. It also can be used for the control of distribution circuits of rated current from 200A to 1600A.

SPECIFICATIONS



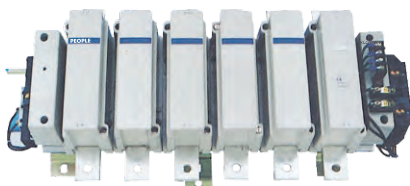
PLC1-F115



PLC1-F150



PLC1-F630



PLC1-F780



PLC1-F1154



PLC1-F2254

Type		PLC1-F115	PLC1-F150	PLC1-F185	PLC1-F225	PLC1-F265
Rated operation current(A)	AC-3	115	150	185	225	225
	AC-1	200	250	275	315	350
Standard power ratings of 3-phase motors AC-3(KW)	220/230V	30	40	55	63	75
	380/400V	55	75	90	110	132
	415V	59	80	100	110	140
	440V	59	80	100	110	140
	500V	75	90	110	129	160
	660/690V	80	100	110	129	160
1000V	65	65	100	100	147	

Type		PLC1-F330	PLC1-F400	PLC1-F500	PLC1-F630	PLC1-F780
Rated operation current(A)	AC-3	330	400	500	630	780
	AC-1	400	500	700	1000	1600
Standard power ratings of 3-phase motors AC-3(KW)	220/230V	100	110	147	200	220
	380/400V	160	200	250	335	400
	415V	180	200	280	375	425
	440V	200	250	295	400	425
	500V	200	257	355	400	450
	660/690V	200	280	335	450	475
1000V	160	185	335	450	450	

PLC4-D 4 POLE AC CONTACTOR



SPECIFICATIONS



PLC4-D09004

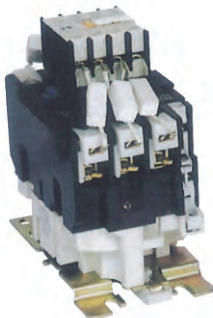


PLC4-D5004

AC-3 AC-1 440V ≤40°C(A)		Rated nonconductive voltage	Power poles 	Reference
		Control	circuit:a. c.	
9	25	690	4 -	PLC4-D09004
			2 2	PLC4-D09008
12	25	690	4 -	PLC4-D12004
			2 2	PLC4-D12008
25	40	690	4 -	PLC4-D25004
			2 2	PLC4-D25008
40	60	690	4 -	PLC4-D40004
			2 2	PLC4-D40008
50	80	690	4 -	PLC4-D50004
			2 2	PLC4-D50008
65	80	690	4 -	PLC4-D65004
			2 2	PLC4-D65008
80	125	690	4 -	PLC4-D80004
			2 2	PLC4-D80008
95	125	690	4 -	PLC4-D95004
			2 2	PLC4-D95008

CJ16(19)SWITCH-OVER CAPACITOR CONTACTOR

SPECIFICATIONS



CJ16-32



CJ19-32

Type		CJ19-32 CJ16-32	CJ19-32 CJ16-43	CJ19B-32 CJ16C-32	CJ19B-32 CJ19C-43	CJ19B-63 CJ19C-63
Controlled	Capacity	18(16)	20	15	20	32
	400V Rated voltage(A)	26(23)	29	21.6	29	46
Working current 1.3In A		33.8(30)	37.7	28	37.7	60
Conventional heating current Ith A		32	43	32	43	69
Controlling capability to flash flow		220,380 or according to user requirements				
Coil	Working voltage Us 50Hz	220,380 or according to user requirements				
	Operating range	0.85~1.1Us				
	Consumed power(VA)	68		115		200
start holding		12		11		20
Rated current for short-circuit protected fuse		1.5~2.5In				
Rated insulation voltage Ui 50Hz V		500			650	
Conventional heating current of auxillary contacts AC 15A		10				
Mechanical life ten thousand times		100			80	
Elechanical life operating frequency 1201/h ten thousand times		10			8	
Weight(kg)		About0.58		About0.57	About0.6	About1.25

PLP1-D DC OPERATED AC CONTACTOR

APPLICATION

PLC1-P series DC Operated AC contactor is suitable for using in the circuit up to rated voltage 660VAC 50Hz or 60Hz, and in rated current 9-95A in AC-3/380V load circuits. For remote controlling circuit making, breaking and frequent cstarting AC motors. It can be also combined with the auxiliary contact group, air delayer, thermal relay devices etc. It has specialities of equable & reliable action, quick while working.



PLP1-D09



PLP1-D18



PLP1-D32



PLP1-D65



PCA2



PLP2-D09

SPECIFICATIONS

Type	Rated working current A IeA (AC-3)	Rated heat current Ith(A)	Rated work- ing voltage Ue A	Rated insulat- ing voltage Ui A	Controlled Power(KW)					Electrical life (AC-3) 10 ⁴	Con- tacts Number
					220V	380V	415V	440V	660V		
PLP1-D09	9	20	380V	660V	2.2	4	4	4	5.5	660V	3P+NO 3P+NC
PLP1-D012	12	20			3	5.5	5.5	5.5	7.5		
PLP1-D018	18	32			4	7.5	9	9	9		
PLP1-D025	25	40			5.5	11	11	11	15		
PLP1-D032	32	50			7.5	15	15	15	18.5		
PLP1-D040	40	60	660V		11	18.5	22	22	30	3P+NO +NC	
PLP1-D050	50	80			15	22	25	30	33		
PLP1-D065	65	80			18.5	30	37	37	37		
PLP1-D080	80	125			22	37	45	45	45		
PLP1-D095	95	125			25	45	45	45	45		

PLC1-K AC CONTACTOR

SPECIFICATIONS



PLC1-K06/09/1210



PLC2-K06/09/1210

Type	Rated working current A(380V)	AC-3 use group Control power KW				Contact data(1)
		220V	380/415V	440/500V	660V	
PLC1-K06	6	1.5	2.2	3	3	3P+NC 3P+NO
PLC1-K09	9	2.2	4	4	4	3P+NC 3P+NO
PLC1-K12	12	3	5	5	5	3P+NC 3P+NO

Specification	Type	PLC1-K06	PLC1-K09	PLC1-K12
Use group under AC-3		6	9	12
Rated working current(Ie)A		5	7.5	10
Conventional thermal current(Ith)A		16	20	20
Rated working voltage(Ue)V		380 660		
Rated insulation voltage(Ui)V		690		
AC-3 (6Ie Ie)	Electrical life(times)	0.5×106		
	Operation frequency h-1	1200		
AC-4 (6Ie Ie)	Electrical life(times)	10×104		
	Operation frequencyh-1	300		
Mechanical life		3×106		
Auxiliary contact	Conventional thermal current	6A		
	Electrical life (times)	AC-15(360VA) DC-13(13W)	0.5×10 ⁶	
Coil specification	Rated control voltage(Us)	AC:12,24,45,110,220,380 DC:12,24,45,110,220		
	Pick-up voltage	AC:0.85~1.1Us DC:0.85~1.1Us		
	Releasing voltage	AC:0.1~0.75Us DC:0.2~0.75Us		
	Coil power VA	Pick-up	40	
		Retain	4	
	Consumption	1.2W		
	Pick-up time	6~18ms		
	Releasing time	5~23ms		
Power factor	Making 0.8 Breaking 0.3			




PLC1-E03/09



PLC2-E03/09

PLC1-EC SERIES AC CONTACTOR

SPECIFICATIONS

For motor control, from 6 to 630A(AC-3) for the control of distribution circuits, from 16 to 1000A(AC-1) Control circuit: d.c.										
Basic reference. Complete with code indicating control circuit voltage(2) Fixing(1)	Standard power ratings of 3-phase motor 50-60Hz in category AC-3						Rated operating current AC-3 AC-1 up to $\theta \leq 40^{\circ}\text{C}$ 440		Rated non- conductive voltage V	Instantaneous auxiliary contacts 
	220V	380V	415V	440V	500V	690V	A	A		
PLC1-EC03*	1.5	2.2	2.2	3	3	3	6	16	660	1 -
PLC1-EC09*	2.2	4	4	4	4	4	9	16	660	- 1

CONTACT BLOCK

APPLICATION

PLA1-D series auxiliary contact blocks is installed on the top of PCA2-D control relay or PLC1-D AC contactor for expanding the couples of auxiliary contacts points. Owing to adopting the contacting functions of sliding frictions, the item can be self-cleaning & ensure the electric circuit to be reliable.



PLA1-DN11



PLA1-DN40



PLA2-DT2



PLA1-KN11



PLA1-KN22



PLX1-D02



PLX1-D04



PLX1-D06



PLX1-D06N



PLX1-FK

SPECIFICATIONS

Type	PLA1-DN02	PLA1-DN11	PLA1-DN20	PLA1-DN22	PLA1-DN40	PLA1-DN04	PLA1-DN13	PLA1-DN31
Contact number	2NC	NO+NC	2NO	2NO+2NC	4NO	4NC	1NO+3NC	3NO+3NC

APPLICATION

PLA2-D timer delay auxiliary contact blocks are combined with PLC1-D AC contactor & PA1-D Auxiliary contact block into PLC3-D star-delta reduced volt-age starter is to start motor.

SPECIFICATIONS

Type	Delay range	Number of the delay contacts
PLA2-DT0	0.1~3s	NO+NC
PLA2-DT2	0.1~30s	
PLA2-DT4	10~180s	
PLA3-DR2	0.1~30s	
PLA3-DR4	10~180s	
PLA3-DR2	0.1~3s	

PLX1-D2:	Used for Contactor	PLC1-D09 to PLC1-D18
PLX1-D4:	Used for Contactor	PLC1-D25 to PLC1-D32
PLX1-D6:	Used for Contactor	PLC1-D40 to PLC1-D95
PLX1-FF:	Used for Contactor	PLC1-F115 to PLC1-F150
PLX1-FG:	Used for Contactor	PLC1-F185 to PLC1-F225
PLX1-FH:	Used for Contactor	PLC1-F265 to PLC1-F330
PLX1-FJ:	Used for Contactor	PLC1-F400
PLX1-FK:	Used for Contactor	PLC1-F500
PLX1-FL:	Used for Contactor	PLC1-F630
PLX1-FK:	Used for Contactor	PLC1-F780

P3TF AC CONTACTOR

TECHNICAL SPECIFICATION:



P3TF30/31



P3TF-40



P3TF-46

Type	Rated Thermal current (A)	Rated operation current(A)		Controllable power of motor(KW)				Type of Auxiliary contact
		380V	660V	AC-3		AC-4		
				380V	660V	380V	660V	
P3TF30	20	9	7	4	5.5	1.4	2.4	NO NC 1NO+1NC 2NO+2NC
P3TF31	20	12	8.5	5.5	7.5	1.9	3.3	
P3TF32	30	16	12.5	7.5	11	3.5	6	
P3TF33	30	22	16.5	10	15	4	6.6	
P3TF34	55	32	24	15	22	7.5	13	
P3TF35	55	38	30	18.5	22	9	15.5	
P3TF40	20	9	7	4	5.5	1.4	2.4	
P3TF41	20	12	8.5	5.5	7.5	1.9	3.3	
P3TF42	30	16	12.5	7.5	11	3.5	6	
P3TF43	30	22	16.5	10	15	4	6.6	
P3TF44	55	32	24	15	22	7.5	13	2NC+2NO 4NC+4NO
P3TF45	55	38	30	18.5	22	9	15.5	
P3TF46	80	45	40	22	37	12	20.8	
P3TF47	80	63	60	30	55	14	24.3	
P3TF48	100	75	60	37	55	17	29.5	
P3TF49	100	85	80	45	75	21	36	
P3TF50	160	110	95	55	90	27	46.9	
P3TF51	160	140	120	75	110	35	60	
P3TF52	200	170	160	90	150	38	66	
P3TF53	210	205	165	110	160	50	86	
P3TF54	300	250	230	132	220	58	100	
P3TF55	300	300	260	160	250	66	114	
P3TF56	400	400	380	200	355	81	140	
P3TF68	630	630	600	335	560	160	278	



P3TF-52



P3TF56

P3TB P3TH AC CONTACTOR

APPLICATION

The contactor is suitable for using in the circuits up to the rated voltage 660VAC 50 Hz or 60Hz, rated current 630A, for making and breaking, and for frequent starting and controlling the motor. After combined with the mechanical interlocking device, it becomes 3TD series convertible contactor for Controlling, starting, breaking and reversing of the motor. The products comply with IEC947-2 & VDE0660.



P3TB-40



P3TB-44

SPECIFICATIONS

Type	Rated thermal current (A)	Rated operating current at 380V(A)	Rated operating current at 660V(A)	The power of controlled motor(KW)		Type of auxiliary contact
				380V	660V	
P3TB40	22	9	7.2	4	5.5	1NO
P3TB41	22	12	9.5	5.5	7.5	1NC
P3TB42	35	16	13.5	7.5	11	1NO+1NC
P3TB43	35	22	13.5	11	11	2NO+2NC
P3TB44	55	32	18	15	15	2NC+2NO

P3TH AC CONTACTOR

APPLICATION

The auxiliary contactor is the auxiliary suited by controlled circuit whose voltage is AC 50/60Hz, 660V and DC 660V. They control all kinds of magnetic coil and amplify or transfer signal to relative controlled element simultaneously. They are characterized by high performance & long service life.



P3TH-80

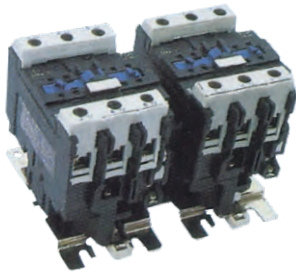


P3TH-82

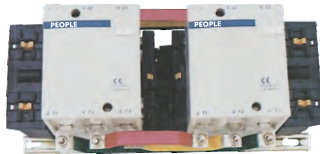
SPECIFICATIONS

Type	Type of contact		Rated Voltage	Rated operational current (A)		Controllable motor power AC3(KW)
	NO	NC		Ie=AC11、AC14 DC11		
				AC11	AC14	
P3TH-80	40-0A	4	-	-	-	-
	31-0A	3	-	-	-	-
	22-0A	2	-	-	-	-
	13-0A	1	-	-	-	-
	04-0A	-	-	-	-	-
P3TH-82	80-0A	8	-	-	-	-
	71-0A	7	-	-	-	-
	62-0A	6	-	-	-	-
	53-0A	5	-	-	-	-
	44-0A	4	-	-	-	-
			110V		0.9	
			220V	10	0.45	2.2
			380V	6	-	4
			440V	-	0.25	4
			660V	2	-	4

INTERLOCKING CONTACTOR PLC2-D/F MECHANICAL



PLC2-D50



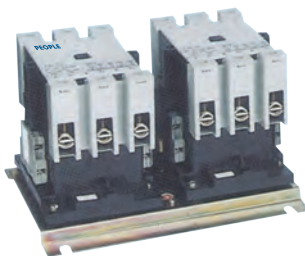
PLC2-D115

SPECIFICATIONS

Type	Rated current AC-3(A)	Controlled power(KW)				
		220V	380V	415V	440V	660V
PLC2-D0901	9	2.2	4	4	4	5.5
PLC2-D1201	12	5.5	5.5	5.5	5.5	7.5
PLC2-D1801	18	7.5	7.5	9	9	10
PLC2-D2501	25	5.5	11	11	11	15
PLC2-D3201	32	7.5	15	15	15	18.5
PLC2-D4011	40	18.5	18.5	22	22	30
PLC2-D5011	50	15	22	25	25	33
PLC2-D6311	63	18.5	30	37	37	37
PLC2-D8011	80	22	37	45	45	45
PLC2-D9511	95	22	45	45	45	41

P3TD MECHANICAL

SPECIFICATIONS



P3TD-50

Type	Rated thermal current (A)	Rated operation current (A)		Controllable power of motor (KW)			
		380V	660V	AC-3		AC-4	
				380V	660V	380V	660V
P3TD40	20	9	7	4	5.5	1.4	2.4
P3TD41	20	12	8.5	5.5	7.5	1.9	3.3
P3TD42	30	16	12.5	7.5	11	3.5	6
P3TD43	30	22	16.5	10	15	4	6.6
P3TD44	55	32	24	15	22	7.5	13
P3TD45	55	38	24	18.5	22	9	15.5
P3TD46	80	45	40	22	37	12	20.8
P3TD47	80	63	60	30	55	14	24.3
P3TD48	100	75	60	37	55	17	29.5
P3TD49	100	85	80	45	75	21	36
P3TD50	160	110	95	55	90	27	46.9
P3TD51	160	140	120	75	110	35	60
P3TD52	200	170	160	90	150	38	66
P3TD53	210	205	165	110	160	50	86
P3TD54	300	250	230	132	220	58	100
P3TD55	300	300	260	160	250	66	114
P3TD56	400	400	380	200	355	81	140
P3TD58	630	630	600	335	560	160	278

PGMC AC CONTACTOR



PGMC 9-22



PGMC 32-40



PGMC 50-85



PGMC 100-125

Type		PGMC-9	PGMC-12	PGMC-18	PGMC-22	PGMC-32	PGMC-40		
IEC-60947	AC1 duty	20A	20A	25A	32A	50A	60A		
	AC3 duty	200~240V	2.5KW 11A	3.5KW 13A	4.5KW 18A	5.5KW 22A	7.5KW 32A	11KW 40A	
		380~440V	4KW 9A	5.5KW 12A	7.5KW 18A	11KW 22A	15KW 32A	18.5KW 40A	
		500~550V	4KW 7A	7.5KW 12A	7.5KW 13A	15KW 22A	18.5KW 28A	22KW 32A	
	690V	4KW 5A	7.5KW 9A	7.5KW 9A	15KW 18A	18.5KW 21A	22KW 25A		
UL	Continuous current(th)		20A	25A	30A	32A	45A	50A	
	AC Motor	single phase	115V	0.5HP	0.5HP	1HP	2HP	2HP	3HP
			230V	1HP	2HP	3HP	3HP	5HP	5HP
	Three phase	200V	2HP	3HP	5HP	7HP	7.5HP	10HP	
		230V	2HP	3HP	5HP	7.5HP	10HP	10HP	
		460V	5HP	7.5HP	10HP	10HP	20HP	25HP	
575V		7.5HP	10HP	15HP	15HP	20HP	25HP		
Aux.contact	Side mounting		AU-1	AU-1	AU-1	AU-1	AU-1	AU-1	
	Top mounting		AU-2,AU-4	AU-2,AU-4	AU-2,AU-4	AU-2,AU-4	AU-2,AU-4	AU-2,AU-4	
Panel installation		Rail & Screw							
External Dimension(mm)(W×H×D)		44×80×86.8				68×82×94.6			
Type		PGMC-50	PGMC-65	PGMC-75	PGMC-85	PGMC-100	PGMC-125		
IEC-60947	AC1 duty	80A	100A	110A	135A	150A	150A		
	AC3 duty	200~240V	15KW 55A	18.5KW 65A	22KW 75A	25KW 85A	30KW 105A	35KW 125A	
		380~440V	22KW 50A	30KW 65A	37KW 75A	45KW 85A	55KW 105A	60KW 120A	
		500~550V	30KW 43A	37KW 60A	45KW 64A	45KW 75A	55KW 85A	60KW 90A	
	690V	30KW 33A	37KW 47A	45KW 47A	45KW 52A	55KW 65A	60KW 70A		
UL	Continuous current(th)		70A	80A	90A	100A	160A	160A	
	AC Motor	single phase	115V	3HP	5HP	5HP	7.5HP	7.5HP	10HP
			230V	7.5HP	10HP	15HP	15HP	15HP	20HP
	Three phase	200V	10HP	15HP	20HP	25HP	30HP	40HP	
		230V	15HP	20HP	25HP	30HP	30HP	40HP	
		460V	30HP	40HP	50HP	50HP	60HP	75HP	
575V		30HP	40HP	50HP	50HP	60HP	75HP		
Aux.contact	Side mounting		AU-1	AU-1	AU-1	AU-1	AU-100	AU-100	
	Top mounting		AU-2,AU-4	AU-2,AU-4	AU-2,AU-4	AU-2,AU-4	-	-	
Panel installation		Rail & Screw				Screw			
External Dimension(mm)(W×H×D)		94×123.5×117.4				100×157.4×146.5			

P3RT SERIES AC CONTACTOR



P3RT-25



P3RT-50



P3RT-95

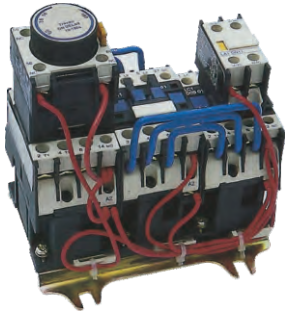
Rated current	TYPE	Voltage
S00 9A	P3RT1016-1AB01 P3RT1016-1AK61 P3RT1016-1AR11	24 120 220 440
S0 25 A	P3RT1026-1AB60 P3RT1026-1AN20 P3RT1026-1AR10	120 220 440
S2 32 A	P3RT1034-1AJ16 P3RT1034-1AN16 P3RT1034-1AR16	115 220 440
S2 50 A	P3RT1036-1AJ16 P3RT1036-1AN16 P3RT1036-1AR16	115 220 440
S3 80 A	P3RT1045-1AJ16 P3RT1045-1AN16 P3RT1045-1AR16	115 220 440
9 A 15 A 22 A 35 A	P3RT1016-1BB41 P3RT1016-1BB40 P3RT1016-1BB40 P3RT1016-1BB40	24 V
Rated current	TYPE	No. The Ejecucion de contactors
Rated current	P3RH1911-1FA22 P3RH1921-1FA22 P3RH1911-1EA11	2NA+2NC 2NA+2NC 2NA+2NC

PLC3-D STAR-DELTA REDUCED VOLTAGE STARTER

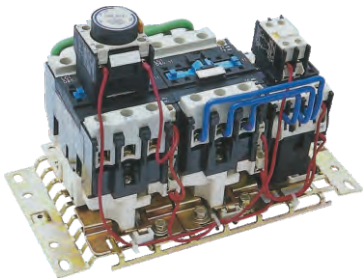
APPLICATION

PLC3-D series star-delta reduced voltage starter is suitable for starting motor in the circuit of AC 50/60Hz, voltage up to 660V and current up to 95A. It is provided with a timer for automatic chngover of star-delta to reduce the voltage and current of motor starting.

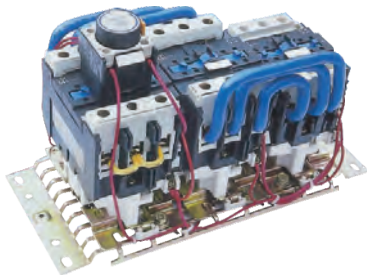
SPECIFICATION



PLC3-D183



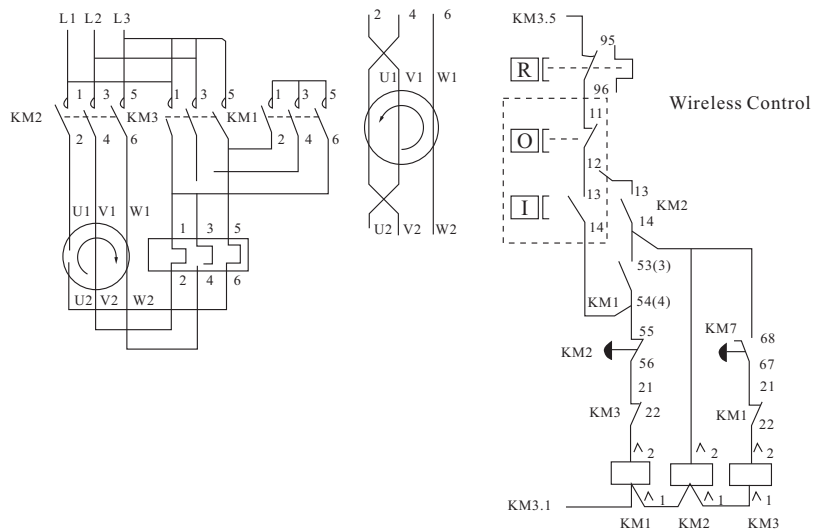
PLC3-D503



PLC3-D803

Type	Rated operating current(A)	3-phase motor capacity(KW)			
		AC3 Loaded			
		220V	380V	415V	440V
PLC3-D093	9	4	7.5	7.5	7.5
PLC3-D123	12	5.5	11	11	11
PLC3-D183	18	11	18.5	22	22
PLC3-D253	25	11	22	22	22
PLC3-D323	32	15	25	33	30
PLC3-D403	40	18.5	37	37	37
PLC3-D503	50	30	55	59	59
PLC3-D653	65	32	55	59	59
PLC3-D803	80	37	75	75	75
PLC3-D953	95	45	80	80	80

Wiring Diagram



PLE1-D MAGNETIC STARTER

APPLICATION

PLE1-D magnetic starter is mainly applied to circuit of AC 50 or 60Hz, voltage up to 550V for far distance making and breaking circuit and frequent start and control motor. It has the features of small volume, light weight, low power consumption, high efficiency, safe and reliable performance etc.



PLE1-09,12,18



PLE1-25,32



PLE1-40,95

SPECIFICATION

Code Number		Suitable Thermal Relay(A)	Maximum power AC3 duty(KW)							Rated current (A)	Type of enclosure
LL (long life)	NL(3) (normal life)		220V 230V	380V 400V	415V	440V	500V	660V 690V			
-	PLE1 EC135	PLE1 EC135	1.1	2.2	22	22	-	-	6	-	
PLE1 D094...	-	PLR2 D1312	2.2	4	4	4	5.5	5.5	9	IP42	
PLE1 D093...	-	PLR2 D1314								IP65	
PLE1 D124...	PLE1 D094...	PLR2 D1316	3	5.5	5.5	5.5	7.5	7.5	12	IP42	
PLE1 D123...	PLE1 D093...									IP65	
PLE1 D188...	PLE1 D124...	PLR2 D1321	4	7.5	9	9	10	10	18	IP42	
PLE1 D185...	PLE1 D123...									IP65	
PLE1 D258...	PLE1 D188...	PLR2 D1322	5.5	11	11	11	15	15	25	IP42	
PLE1 D255...	PLE1 D185...	PLR2 D2353								IP65	
PLE1 D325...	PLE1 D255...	PLR2 D2355	7.5	15	15	15	18.5	18.5	32	IP55	
PLE1 D405...	PLE1 D325...	PLR2 D3353 PLR2 D3355	11	18.5	22	22	22	30	40	IP55	
PLE1 D505...	PLE1 D405...	PLR2 D3357 PLR2 D3359	15	22	25	30	30	33	50	IP55	
PLE1 D655...	PLE1 D505...	PLR2 D3361	18.5	30	37	37	37	37	65	IP55	
PLE1 D805...	PLE1 D655...	PLR2 D3363 PLR2 D3365	22	37	45	45	55	45	80	IP55	
PLE1 D955...	PLE1 D805...	PLR2 D3365	25	45	45	45	55	45	95	IP55	

Enclosure	PLE-D09 and D12	Double insulated,protected to IP 429 (3) or to IP 659(4)
	PLE-D18 and D25	Double insulated,protected to IP 427 (3) or to IP 557(4)
	PLE1-D32...D25	Metal,IP55 to Ip559
Control(2 pushbuttons mounted on enclosure cover)	PLE1-D09...D95	1 green Start button "1" 1 red Stop/Reset button "O"
Connections	PLE1-D09...D95	Pre-wired power and control circuit connections
Standard control circuit voltages		
Volts	24 42 48 110	220/230 230 240 380/400 400 415 440
50/60Hz	B7 D7 E7 F7	M7 P7 U7 Q7 V7 N7 R7

PLE1-DN MAGNETIC STARTER

APPLICATIONS

PLE1-DN magnetic starter is mainly applied to circuit of AC 50 or 60Hz, voltage up to 550V for far distance making and breaking circuit and frequently starting and controlling motor. It has the features of small volume, light weight, low power consumption, high efficiency, safe and reliable performance etc.



PLE1-D0901N



PLE1-D09N



PLE1-D18N



PLE1-D32N

SPECIFICATION

Code number		Suitable thermal relay(A)	Maximum power AC3 duty(KW)						Rated current (A)	Type of enclosure
LL (long life)	NL(3) (normal life)		220V 230V	380V 400V	415V	440V	500V	660V 690V		
PLE1 D094..N	—	PLR2 D1312	2.2	4	4	4	5.5	5.5	9	IP42
PLE1 D093..N	—	PLR2 D1314								IP65
PLE1 D124..N	PLE1 D094..N	PLR2 D1316	3	5.5	5.5	5.5	7.5	7.5	12	IP42
PLE1 D123..N	PLE1 D093..N									IP55
PLE1 D188..N	PLE1 D124..N	PLR2 D1321	4	7.5	9	9	10	10	18	IP42
PLE1 D185..N	PLE1 D123..N									IP55
PLE1 D258..N	PLE1 D188..N	PLR2 D1322	5.5	11	11	11	5	5	25	IP42
PLE1 D255..N	PLE1 D185..N	PLR2 D2353								IP55
PLE1 D325..N	PLE1 D255..N	PLR2 D2355	7.5	15	15	15	18.5	18.5	32	IP55
PLE1 D405..N	PLE1 D325..N	PLR2 D3353 PLR2 D3355	11	18.5	22	22	22	22	40	IP55
PLE1 D505..N	PLE1 D405..N	PLR2 D3357 PLR2 D3359	15	22	25	25	30	30	50	IP55
PLE1 D655..N	PLE1 D505..N	PLR2 D3361	18.5	30	37	37	37	37	65	IP55
PLE1 D805..N	PLE1 D655..N	PLR2 D3363 PLR2 D3365	22	37	45	45	55	45	80	IP55
PLE1 D955..N	PLE1 D805..N	PLR2 D3365	25	45	45	45	55	45	95	IP55

SPECIFICATION

Enclosure	PLE1-D09N and D12N	Double insulated, protected to IP42 (3) or to IP65(4)
	PLE1-D18 and D25N	Double insulated, protected to IP42(3) or to IP55(4)
	PLE1-D32...N D95N	Metal IP55 to IP42(7)
Control (2 pushbuttons mounted on enclosure cover)	PLE1-D09...N D95N	1 green Start button "I" 1 red Stop/Reset button "O"
connections	PLE1-D09...N D95N	Pro-wired power and control circuit connections
Standard control circuit voltages		
Volts	24 42 48 110 220/230 230 240 380/400 400 415 440	
50/50Hz	B7 D7 E7 F7 M7 P7 U7 Q7 V7 N7 R7	

PMSB MAGNETIC STARTER

APPLICATIONS

PMSB series electromagnetic starters is used in a power line, AC 50-60Hz to start, stop and convert motors, and protect motors from overload and phase failure. PMSB9-MSB80 starters and convertible starters have two types: open type and protective cover type.

SPECIFICATION



PMSB

	T16	T45	T85	T105	T170	T250	T370	Control power AC2/AC3/AC4			
								kW			
								~220V	~380V	~500V	~660V
PMSB 9	•							2.2	4	4	4
PMSB 12	•							3	5.5	5.5	5.5
PMSB 16	•							4	7.5	7.5	5.5
PMSB 25		•						6.5	11	11	11
PMSB 30		•						9	15	15	15
PMSB 37		•						10	18.5	18.5	18.5
PMSB 45		•						13	22	22	22
PMSB 65			•					16	33	40	40
PMSB 80			•					20	45	50	50

MS-N MS-K MAGNETIC STARTER

APPLICATIONS

MS-N & MS-K series magnetic starters is used in a circuit of voltage up to 600V, AC 50-60Hz to start, stop and convert motors, and protect motors from overload and phase failure.

SPECIFICATION



MS-K11



MS-K21/25



MT-11/21

Type	Rated current AC3 (A)		Rated power(KW)				Aux contacts		Setting current(A)
	220V	380V	220V	380V	550V	660V			
MS-N10(MS-K10)	11	9	2.5	4	4	4	1	-	0.24A 0.35A 0.5A 0.7A 0.9A 1.3A 1.7A 2.1A 2.5A 3.6A 5A 6.6A 9A
MS-N11(MS-K11)	13	12	3.5	5.5	5.5	5.5	1	-	0.24A 0.35A 0.5A 0.7A 0.9A 1.3A 1.7A 2.1A 2.5A 3.6A 5A 6.6A 9A
MS-N18(MS-K18)	18	16	4.5	7.5	7.5	7.5	1	-	0.24A 0.35A 0.5A 0.7A 0.9A 1.3A 1.7A 2.1A 2.5A 3.6A 5A 6.6A 9A
MS-N20(MS-K20)	22	22	5.5	11	11	7.5	1	2	0.24A 0.35A 0.5A 0.7A 0.9A 1.3A 1.7A 2.1A 2.5A
MS-N21(MS-K21)	22	22	5.5	11	11	7.5	1	2	0.24A 0.35A 0.5A 0.7A 0.9A 1.3A 1.7A 2.1A 2.5A
MS-N25(MS-K25)	30	30	7.5	15	15	11	1	2	3.6A 5A 6.6A 9A 11A 15A 19A 22A 29A 35A
MS-N35(MS-K35)	40	40	11	18.5	18.5	15	1	2	3.6A 5A 6.6A 9A 11A 15A 19A 22A 29A 35A
MS-N50(MS-K50)	55	50	15	22	22	22	1	2	15A 22A 29A 35A 42A 54A
MS-N65(MS-K65)	65	62	18.5	30	30	30	1	2	15A 22A 29A 35A 42A 54A
MS-N80(MS-K80)	85	85	22	45	45	45	1	2	37A 82A
MS-N95(MS-K95)	105	105	30	55	55	55	1	2	95A

PGV MOTOR PROTECTION CIRCUIT BREAKER

APPLICATION

PGV series motor protection circuit breakers is mainly used for the overload and short circuit protection of the motor in AC 50/60Hz, up to 660V, 0.1-80A power circuit, as a full voltage starter to start and cut off the motor, under the AC3 load or for the overload and short circuit protection of the circuit and power equipment in the power distribution network.

SPECIFICATIONS



PGV2



PGV3



AUXILIARY



PGV2 BOX

Type	Setting range (A)	Rated standard power of 3-phase motors 50/60Hz in category AC-3					
		220V	380V	415V	440V	500V	660V
		KW	KW	KW	KW	KW	KW
PGV2-M01	0.1-0.16	--	--	--	--	--	--
PGV2-M02	0.16-0.25	--	--	--	--	--	--
PGV2-M03	0.25-0.4	--	--	--	--	--	--
PGV2-M04	0.4-0.63	--	--	--	--	--	0.37
PGV2-M05	0.63-1	--	--	--	0.37	0.37	0.55
PGV2-M06	1-1.6	--	0.37	--	0.55	0.75	1.1
PGV2-M07	1.6-2.5	0.37	0.75	0.75	1.1	1.1	1.5
PGV2-M08	2.5-4	0.75	1.5	1.5	1.5	2.2	3
PGV2-M10	4-6.3	1.1	2.2	2.2	3	3.7	4
PGV2-M14	6-10	2.2	4	4	4	5.5	7.5
PGV2-M16	9-14	3	5.5	5.5	7.5	7.5	9
PGV2-M20	13-18	4	7.5	9	9	9	11
PGV2-M21	17-23	5.5	11	11	11	11	15
PGV2-M22	20-25	5.5	11	11	11	15	18.5
PGV2-M32	24-32	7.5	15	15	15	18.5	26
PGV3-M06	1-1.6	--	0.37	--	0.55	0.75	1.1
PGV3-M07	1.6-2.5	0.37	0.75	1.1	1.1	1.1	1.5
PGV3-M08	2.5-4	0.75	1.5	1.5	1.5	2.2	3
PGV3-M10	4-6	1.1	2.2	2.2	3	3.7	4
PGV3-M14	6-10	2.2	4	4	4	5.5	7.5
PGV3-M20	10-16	4	7.5	7.5	7.5	10	11
PGV3-M25	16-25	5.5	11	11	11	15	18.5
PGV3-M40	25-40	11	18.5	22	22	25	33
PGV3-M63	40-63	15	30	33	33	40	55
PGV3-M80	56-80	22	40	45	45	55	63

PGV2 SERIES MOTOR PROTECTION CIRCUIT BREAKER

APPLICATIONS

PGV2 series motor protection circuit breaker is mainly used for the overload and short circuit protection of the motor in AC 50/60Hz, up to 660V, 0.1-80A power circuit, as a full-voltage starter to start and cut off the motor, under the Ac3 load or for the overload and short circuit protection of the circuit and power equipment in the power distribution network.

SPECIFICATIONS:



PGV2 -ME



**PGV2-ME
with water proof box**



PMS325

Type	Standard power ratings of 3-phase						Setting range
	220V	380V	415V	440V	500V	660V	
	KW	KW	KW	KW	KW	KW	
PGV2-ME01/RS01	--	--	--	--	--	--	0.1-0.16
PGV2-ME02/RS02	--	--	--	--	--	--	0.16-0.25
PGV2-ME03/RS03	--	--	--	--	--	--	0.25-0.4
PGV2-ME04/RS04	--	--	--	--	--	0.37	0.4-0.63
PGV2-ME05/RS05	--	--	--	0.37	0.37	0.55	0.63-1
PGV2-ME06/RS06	--	0.37	--	0.55	0.75	1.1	1-1.6
PGV2-ME07/RS07	0.37	0.75	0.75	1.1	1.1	1.5	1.6-2.5
PGV2-ME08/RS08	0.75	1.5	1.5	1.5	2.5	3	2.5-4
PGV2-ME10/RS10	1.1	2.2	2.2	3	3.7	4	4-6.3
PGV2-ME14/RS14	2.2	4	4	4	5.5	7.5	6-10
PGV2-ME16/RS16	3	5.5	5.5	7.5	7.5	9	9-14
PGV2-ME20/RS20	4	7.5	9	9	9	11	13-18
PGV2-ME21/RS21	5.5	11	11	11	11	15	17-23
PGV2-ME22/RS22	5.5	11	11	11	15	18.5	20-25
PGV2-ME32/RS32	7.5	15	15	15	18.5	26	24-32

PMS325 type

Rated current:0.1upto 25A

Rated operation voltage:≤660VAC

Frequency:50/60Hz

The same usage as PGV2 model

P3UV MOTOR PROTECTION CIRCUIT BREAKER

APPLICATION

The product is suitable to be used in circuit of rated voltage up to AC 660V 50/60Hz, rated current from 0.1A to 63A. It is applicable for protection of overload & short circuit of 3 phase squirrel-cage motors. It also can be used as direct starter to start the motor and a switch for changeover the circuit under normal conditions.



P3UV1300



P3UV1600

SPECIFICATIONS

Type	Current Setting Range(A)
P3UV1300	0.1~0.16,0.16~0.24,0.24~0.4,0.4~0.6,0.6~1,1~1.6,1.6~2.4,2~3.2,2.4~4,3.2~5,4~6,5~8,6~10,8~13,10~16,14~20,18~25
P3UV1600	1~1.6,1.6~2.4,2.4~4,4~6,6~10,10~16,16~25,22~32,28~40,36~52,45~63

P3VE MOTOR PROTECTION CIRCUIT BREAKER

APPLICATION

P3VE Motor protection circuit breaker is suitable in AC circuit of 50Hz or 60Hz,voltage up to 660V and current up to 0.1~63A and used to prevent small capacity motor and circuits from overload and short circuit.It can be also used as direct starter for starting the motor and a switch for changeover the circuit under normal conditions.



P3VE1



P3VE1

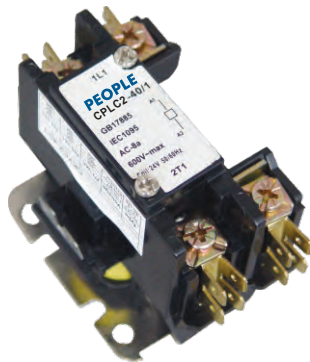
SPECIFICATIONS

Type	P3VE1	P3VE3	P3VE4	
Pole	3	3	3	
Rated current(A)	20	32	63	
Rated Voltage(V)	660	660	660	
Rated Insulation Voltage(V)	660	750	750	
Current Setting Range(A)	0.1~0.16 0.16~0.25 0.25~0.4 0.4~0.63 0.63~1 1~1.6 1.6~2.5 2~3.2 2.5~4 3.2~5 4~6.3 5~8 6.3~10 8~12.5 10~6 14~20	1~1.6 1.6~2.5 2.5~4 4~6.3 6.3~10 8~12.5 10~16 12.5~20 16~25 22~32	3.6~10 10~16 16~25 22~32 28~40 36~50 45~63 45~56	
Power of	220V	5.5	9	18
Controlled	380V	10	16	32
Motor(KW)	660V	13	26	58
Mechanical(1×10 ⁴)		10	10	3
Protective Feature	1.05le	Not Act Within 2hrs		
	1.2le	Act Within 2hrs		
	12le	Action Snap		

CPLC2-388 THRU CPLC2-396 1/2POLE CONTACTORS (30A THRU 40A)

FEATURES

- Replaces many Type 117 contactors used by OEM' s.
- Universal style mounting bracket fits existing mounting holes.
- Screw terminals and ¼" quick connect terminals for easy installation.



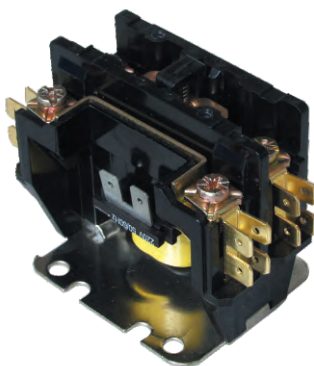
1P/20-40A

SPECIFICATIONS

Temperature Range	-40°F to 150°F
Mechanical Life (no load)	Conforms to UL and ARI specifications
Electrical Life	Conforms to UL and ARI specifications 94-388 thru 94-390 achieve 200,000 cycles, make LRA at .5 pf, break 125% of FLA at .75 pf at rated voltage, 10 000 cycles make and break LRA at .5 pf at rated voltage 94-394 thru 94-369 achieve 100,000 cycles, make LAR at .5 pf at rated voltage 6,000 cycles make and break LEA at .5 pf at rated voltage
Weight (approximate)	9.25 oz
Coils Frequency	50/60 Hz
Coil Insulation	Class B (130°C)
Termination	Screw and Double ¼ " Q.C.
Operate	85% of nominal coil voltage; 110% maximum safe operate
Duty Cycle	Continuous

COIL DATA

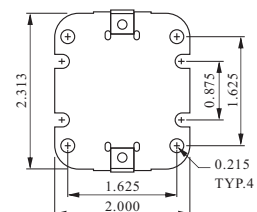
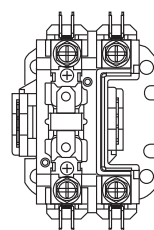
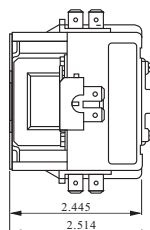
Type Number	Voltage	Res DC OHMS	Current MA	Nominal VA	Max. Inrush VA
CPLC2-388 CPLC2-394	24	16.5	208	5	20
CPLC2-389 CPLC2-395	120	420	42	5	20
CPLC2-390 CPLC2-396	208/240	1825	21	5	20



1P/20-40A

CONTACT RATINGS

Type	Voltage	FLA	LRA	RES
CPL2-388 thru	277	30	150	40
	480	30	75	40
CPL2-390	600	30	50	40
CPL2-394 thru	277	40	200	50
	480	40	100	50
CPL2-396	600	40	80	50



CPLC2-244 THRU CPLC2-252 2 POLE CONTACTORS (30A THRU 40A)

Designed for Air Conditioning and Heating Equipment

FEATURES

- Low VA coil for cooler operation and increased life.
- Quiet operation.
- Universal style mounting bracket fits existing mounting holes.
- Double break contacts ensure positive make and break.
- Screw terminals or pressure connectors and double 1/4" quick connects provided on all models for easy installation.



2P/20-40A

SPECIFICATIONS

Insulating Material	Contact block and carrier are high quality electrical-grade thermosetting resin
Temperature Range	-40°F to 150°F
Mechanical Life	Conforms to UL and ARI specifications
Electrical Life	Conforms to UL and ARI specifications
Weight (approximate)	9.5 oz
Coils Frequency	50/60 Hz
Coil Insulation	Class B (130°C)
Termination	Pressure connector and Double 1/4" Q.C.
Operate	85% of nominal coil voltage;
Duty Cycle	110% maximum safe operate Continuous

COIL DATA

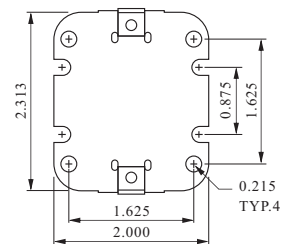
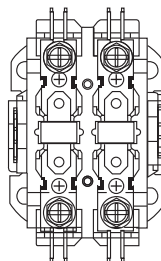
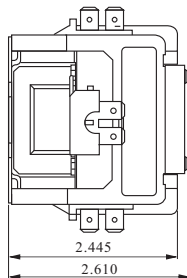
Type Number	Voltage	Res DC	Current	Nominal	Max. Inrush
30 Amp 40 Amp	AC	OHMS	MA	VA	VA
CPL2-244 CPL2-247	24	11	250	6	32
CPL2-245 CPL2-248	120	224	50	6	32
CPL2-246 CPL2-249	208/240	997	25	6	32



2P/20-40A(advanced)

CONTACT RATINGS

Type	Voltage	FLA	LRA	RES
CPL2-244	277	30	150	40
thru	480	30	75	40
CPL2-246	600	30	50	40
CPL2-247	277	40	200	50
thru	480	40	100	50
CPL2-252	600	40	80	50



CPLC2-160 THRU CPLC2-172

3 POLE CONTACTORS (25A THRU 40A)

Designed for Air Conditioning and Heating Equipment

FEATURES

- Any position mounting.
- Interchangeable mounting plate.
- Low voltage coil.
- Double break contacts ensure positive make and break.



3P/30,40A

SPECIFICATIONS

Insulating Material	Contact block and carrier are high quality electrical-grade thermosetting resin
Temperature Range	-40° F to 150° F
Mechanical Life	Conforms to UL and ARI specifications
Electrical Life	Conforms to UL and ARI specifications
Weight (approximate)	16 oz
Coils Frequency	50/60 Hz
Coil Insulation	Class B (130°C) 24 through 208/240 Volts AC
Termination	Pressure connector and Double ¼" Q.C.
Operate	85% of nominal coil voltage; 110% maximum safe operate
Duty Cycle	Continuous

COIL DATA -25 and 30 Amp, 600 Volt Three Pole Normally Open (3 P.N.O.)

Type Number	Coil Voltage AC (60 Hz)	Res DC OHMS	Current MA	Nominal VA	Max. Inrush VA
CPLC2-160 CPLC2-163	24	7.2	187	4.5	52
CPLC2-161 CPLC2-164	120	180	37	4.5	52
CPLC2-162 CPLC2-165	208/240	720	19	4.5	52

CONTACT RATINGS -25 and 30 Amp, 600 Volt Three Pole Normally Open (3 P.N.O.)

Type	Voltage	277 VAC	480 VAC	600 VAC
CPLC2-160 thru CPLC2-162	Full Load	25 A.	25 A.	25 A.
	Lock Rotor	150 A.	125 A.	100 A.
CPLC2-163 thru CPLC2-165	Resistive	40 A.	40 A.	40 A.
	Full Load	30 A.	30 A.	30 A.
	Lock Rotor	180 A.	150 A.	120 A.
	Resistive	50 A.	50 A.	50 A.



3P/30,40A

COIL DATA -40 Amp, 600 Volt Three Pole Normally Open (3 P.N.O.)

Type Number	Coil Voltage AC (60 Hz)	Res DC OHMS	Current MA	Nominal VA	Max. Inrush VA
CPLC2-170	24	7.2	187	4.5	52
CPLC2-171	120	180	37	4.5	52
CPLC2-172	208/240	720	19	4.5	52

Type	Voltage	277 VAC	480 VAC	600 VAC
CPLC2-170 thru CPLC2-172	Full Load	40 A.	40 A.	40 A.
	Lock Rotor	240 A.	200 A.	160 A.
	Resistive	50 A.	50 A.	50 A.

CPLC2-459 THRU CPLC2-473 3 POLE CONTACTORS (50A/90A)

FEATURES

- Interchangeable mounting.
- Double break contacts.



3P/50,60A

SPECIFICATIONS

Coils, Voltages A.C.	24 through 240
Coils, Frequency	50/60 Hz
Coils, Termination	Single or Double 1/4" Q.C.
Contacts, Pole Form	3 PNO
Contacts, Material	Silver cadmium oxide (50-90 amp)
Contacts, Termination	Box lugs and dual quick connect

COIL CHARACTERISTICS

Induct FLA	Frequency Hz.	Max. Inrush		Sealed (Max.)	
		VA	Watts	VA	Watts
50	50/60	240/204	100.8/84	50.4/36.5	10.8/8
60	50/60	240/204	100.8/84	50.4/36.5	10.8/8
75	50/60	300	120	26	8.5
90	50/60	300	120	26	8.5

Steveco Model Number	Coil Volts	Induct FLA	Resistive Per Pole	Locked Rotor	@ Line Voltage
CPLC2-459	24V	50 Amp	65 Amp	300 Amp	120V
CPLC2-460	120V	50 Amp	65 Amp	300 Amp	240V
CPLC2-461	208/240V	50 Amp	65 Amp	200 Amp 200 Amp	480V 600V



3P/75,90A

Steveco Model Number	Coil Volts	Induct FLA	Resistive Per Pole	Locked Rotor	@ Line Voltage
CPLC2-463	24V	60 Amp	75 Amp	360 Amp	120V
CPLC2-464	120V	60 Amp	75 Amp	360 Amp	240V
CPLC2-465	208/240V	60 Amp	75 Amp	300 Amp 240 Amp	480V 600V

Steveco Model Number	Coil Volts	Induct FLA	Resistive Per Pole	Locked Rotor	@ Line Voltage
CPLC2-467	24V	75 Amp	90 Amp	450 Amp	240V
CPLC2-468	120V	75 Amp	90 Amp	375 Amp	480V
CPLC2-469	208/240V	75 Amp	90 Amp	300 Amp	600V
CPLC2-471	24V	90 Amp	120 Amp	450 Amp	240V
CPLC2-472	120V	90 Amp	120 Amp	450 Amp	480V
CPLC2-473	208/240V	90 Amp	120 Amp	360 Amp	600V