MEBA ELECTRIC ENTERPRISES.

science and thchno
reform the life

美拜电气

science and technology reform the life

www.meba.cn

Meba
MEBA ELECTRIC ENTERPRISES.

COMPANY INTRODUCTION

Meba is a first class Asian supplier of low voltage products, including residential and industrial electrical components. with more than 1500 employees. Since its creation in 1993, the company has grown rapidly in Asia.

All products manufactured according to IEC947 etc international standards.

The export department is located in Wenzhou, China and Hongkong.

The company combines high quality customer service with a diverse product range, to meet a wide variety of electrical distribution and protection needs for customers world-wide.

Visit our website to learn more about new Meba products.

For more information please contact Meba.

[D]

CONTACTOR

Content Customers,claim
March toward international

CLC11 AC CONTACTORS

CLC11-09,12,18

CLC11-25,32,38

CLC11-40,50,65

Rated operational current													
le max AC-3(Ue≤440V)		9A		12A		18A		25A		32A		38A	
le AC-1(0≤60℃)		25A				32A		40A		50A			
Rated operational voltage		690V											
Number of poles		3	3		4	3		3	4	3			
Rated operational power in AC-3	220/240V	2.2 KW	3 KW			4 KW		5.5 KW		7.5 KW		9 KW	
	380/4000V	4 KW	5.5 KW			7.5 KW		11 KW		15 KW		18.5 KW	
	415/440V	4 KW	5.5 KW			9 KW		11 KW		15 KW		18.5 KW	
	500V	5.5 KW	7.5 KW			10 KW		15 KW		18.5 KW		18.5 KW	
	660/690V	5.5 KW	7.5 KW			10 KW		15 KW		18.5 KW		18.5 KW	
	1000V	-	-			-		-		-		-	
Auxiliary contacts		1 N/C and 1 N/O instantaneous incorporated in the contactors, with add-on blocks common to the whole											
Compatible manual-auto thermal overload relays	Class 10 A	0.10...10A	0.10...13A			0.10...18A		0.10...32A		0.10...38A		0.10...38A	
	Class 20	2.5...10A	2.5...13A			2.5...18A		2.5...32A		-			
Suppressor modules (d.c.and low consumption contactors have built-in suppression as standard)	Various	•	•		•	•		•	•	•		•	
	Diode	—	—		•	—		—	•	—		—	
	RC circuit	•	•		•	•		•	•	•		•	
	Bidirectional peak limiting diode	•	•		•	•		•	•	•		•	
Interfaces	Relay	•	•		•	•		•	•	•		•	
	Relay+override function	•	•		•	•		•	•	•		•	
	Solid state	•	•		•	•		•	•	•		•	
Contactor type references	~ or ⎓ 3P	CLC11-09	CLC11-12			CLC11-18		CLC11-25		CLC11-32		CLC11-38	
	~ 4P	—	CLC11-12			—		CLC11-25		—		—	
	⎓ 4P	—	CLC11-12			—		CLC11-25		—		—	
Reversing contactor type references	~ 3P	CLC11-09	CLC11-12			CLC11-D18		CLC11-D25		CLC11-D32		CLC11-D38	
	⎓ 3P	CLC11-09	CLC11-12			CLC11-D18		CLC11-D25		CLC11-D32		CLC11-D38	
	~ 4P	—	CLC11-12			—		CLC11-D25		—		—	
	⎓ 4P	—	CLC11-12			—		CLC11-D25		—		—	

CLC11 AC CONTACTORS

CLC11-80,95

CLC11-115

CLC11-150

40 A		50 A		65 A		80 A		95 A		115 A	150 A
60 A		80 A				125 A				200 A	
1000 V on ~ supply, 690 V on supply											
3	4	3		3	4	3	4	3		3	4	3
11 KW		15 KW		18.5 KW		22 KW		25 KW		30 KW		40 KW
18.5 KW		22 KW		30 KW		37 KW		45 KW		55 KW		75 KW
22 KW		25/30 KW		37 KW		45 KW		45 KW		59 KW		80 KW
22 KW		30 KW		37 KW		55 KW		55 KW		75 KW		90 KW
30 KW		33 KW		37 KW		45 KW		45 KW		80 KW		100 KW
22 KW		30 KW		37 KW		45 KW		45 KW		75 KW		90 KW
range comprising up to 4 N/C or N/O instantantaneous, up to 1N/O + 1N/C time delay and up to 2 N/O or N/C protected contacts and 2 screen continuity terminals											
17...50 A		17...70 A		17...80 A		17...104 A		17...104 A		60...150 A	60...150 A
17...40 A		17...65 A		17...70 A		17...80 A				60...150 A	60...150 A
•	•	•		•	•	•	•	•		•	•	•
•	•	•		•	•	•	•	•		–	–	–
•	•	•		•	•	•	•	•		•	•	•
•	•	•		•	•	•	•	•		–	–	–
•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•		•	•	–
CLC11-40		CLC11-50		CLC11-65		CLC11-80		CLC11-95		CLC11-115	CLC11-150
CLC11-40		—		CLC11-65		CLC11-80		—		CLC11-115	—
CLC11-40		—		CLC11-65		CLC11-80		—		CLC11-115	—
CLC11-D40		CLC11-D50		CLC11-D65		CLC11-D80		CLC11-D95		CLC11-D115	CLC11-D150
—		—		—		—		—		—	—
CLC11-D40		—		CLC11-D65		CLC11-D80		—		CLC11-D115	—
—		—		—		—		—		—	—

CLC1-D AC CONTACTOR

APPLICATION

CLC1-D series AC Contactor is suitable for using in the circuits up to the rated voltage 660V AC 50Hz or 60Hz, rated current up to 95A, for making, breaking, frequently starting & 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 Contactor is produced according to IEC947-2, VDE0660 & BS5452.

C09

C090

SPECIFICATIONS

Type		CLC1-D09	CLC1-D12	CLC1-D18	CLC1-D25	CLC1-D32
Rated operation corrent(A)	AC-3	9	12	18	25	32
	AC-1	3.5	5	7.7	8.5	12
AC3-capacity of phase 3 squirrel -cage motor ac3(kw)	220/230V	2.2	3	4	5.5	7.5
	380/400V	4	5.5	7.5	11	15
	415V	4	5.5	9	11	15
	440V	4	5.5	9	11	15
	500V	5.5	7.5	10	15	18.5
	660/690V	5.5	7.5	10	15	18.5
Rated heat current(A)		20	20	32	40	50
Electrical life	AC4×10⁴	20	20-15	20-7	15-7	15-7
	AC3×10⁶	2	2	2	2	2
Mechanical life ×10⁶		20	20	20	20	20
Number of the contacts		3P+NO				
		3P+NC				

CLC1-D09

CLC1-D18

CLC1-D25

CLC1-D32

CLC1-D50

CLC1-D95

CYC1 AC CONTACTOR

09-12

18

Connections for power and control circuits

Type of contactor			CYC1-D09...D18 DT20 & DT25	CYC1-D25...D38 DT32 & DT40	CYC1-D40	CYC1-D50...D95	CYC1-D115 & CYC1-D150

Environment

Rated insulation voltage (Ui)	Conforming to IEC 947-4-1, overvoltage category III, degree fo pollution: 3	V	690	690	1000	1000	1000
Rated impulse withstand voltage (Uimp)	Conforming to IEC 947	kV	6	6	8	8	8
Conforming to standards			IEC 947-1, 947-4-1, EN 60947-1, EN 60947-4-1				
Degree of protection (1)	Power connection		Protection against direct finger contact IP 2X				
(front face only)	Coil connection		Protection against direct finger contact IP 2X (except CYC1-D40...D80)				
protective treatment	Conforming to IEC 68		"TH"				
Ambient air temperature	Storage	℃	-60...+80				
around the device	Operation	℃	-5...+60				
	Permissible	℃	-40...+70,for operation at Uc				
Maximum operating altitude	Without derating	m	3000				
Operating position	Without derating		±30° possible, in relation to normal vertical mounting plane				
Flame resistance	Conforming to IEC 695-2-1	℃	960				
Shock resistance (2)	Contactor open		10 gn	8 gn	8 gn	8 gn	6 gn
1 / 2 sine wave = 11ms	Contactor closed		15 gn	15 gn	10 gn	10 gn	15 gn
Vibration resistance (2)	Contactor open		2 gn	2 gn	2 gn	2 gn	2 gn
5...300 Hz	Contactor closed		4 gn	4 gn	4 gn	3 gn	4 gn

(1) Protection ensured for the connection cross-sections shown on the next page and for connection via cable.
(2) In the least favourable direction, without change of contact state (coil supplied at Ue)

CYC1 AC CONTACTOR

25

32

Connections for power and control circuits

Type of contactor	CYC1-	D09 & D12 DT20 & T25	D18 (3P)	D25	D23	D38	D18 & D25 (4P) DT32 & DT40	D40	D50 & D65	D80 & D95	D115 & D150

Power circuit conections

Connection via cable

Tightening		Screw clamps					2-input connector	Screw clamps	1-input connector		2-input connector
Flexible cable	1 conductor	mm^2	1...4	1.5...6	1.5...10	2.5...10	2.5...10	25..25	25..25	4...50	10...120
Without cable end	2 conductors	mm^2	1...4	1.5...6	1.5...6	2.5...10	2.5...10	25..16	25..16	4...25	10...120+10...50
Flexible cable	1 conductor	mm^2	1...4	1...6	1...6	1...10	2.5...10	25..25	25..25	4...50	10...120
With cable end	2 conductors	mm^2	1...2.5	1...4	1...4	1.5...6	2.5...10	25..10	25..10	4...16	10...120+10...50
Solid cable	1conductor	mm^2	1...4	1.5...6	1.5...6	1.5...10	2.5...16	25..25	25..25	4...50	10...120
Without cable end	2 conductors	mm^2	1...4	1.5...6	1.5...6	1.5...10	2.5...16	25..16	25..16	4...25	10...120+10...50
Screwdriver	Head		N° 2	N° 2	N° 2	N° 2	N° 2	-	-	-	-
	ϕ flat screwdriver		ϕ6	ϕ6	ϕ6	ϕ6	ϕ6	ϕ6.. ϕ8	ϕ6.. ϕ8	ϕ6.. ϕ8	-
6 sided key			-	-	-	-	-	-	-	4	4
Tightening torque		N.m	1.7	1.7	2.5	2.5	1.8	5	5	9	12

Connection via spring terminals (2)

Flexibl cable without cable end	1 conductor	mm^2	2.5 (4: DT25)	4	4	4	-	10	-	-	-	
	2 conductors	mm^2	2.5(except DT25: -)	4	4	4	-	-	-	-	-	

Connection via bars or lugs

Bar cross-section			-	-	-	-	-	-	-	3x16	5x25
Lug external ϕ		mm	8	8	10	10	8 (1)	13	16	17	25
ϕ of screw		mm	M3.5	M3.5	M4	M4	M3.5	M5	M6	M6	M8
Screwdriver	Head		N°2	N°2	N°2	N°2	N°2	N°2	N°2	-	-
	ϕ flat screwdriver		ϕ6	ϕ6	ϕ6	ϕ6	ϕ6	ϕ6	ϕ8	ϕ8	-
Key for hexagonal headed screw			-	-	-	-	-	-	-	10	13
Tightening torque		N.m	1.7	1.7	2.5	2.5	1.8	5	5	9	12

CYC1 AC CONTACTOR

40/50/65

80/95

Connections for power and control circuits

Type of contactor	CYC1-	D09 & D12 DT20 & T25	D18 (3P)	D25	D23	D38	D18 & D25 (4P) DT32 & DT40	D40	D50 & D65	D80 & D95	D115 & D150

Control circuit conections

Connection via cable (tightening via screw clamps)

Flexible cable	1 conductor	mm^2	1...4	1...4	1...4	1...4	1...4	1...4	1...4	1...4	1...2.5
Without cable end	2 conductors	mm^2	1...4	1...4	1...4	1...4	1...4	1...4	1...4	1...4	1...2.5
Flexible cable	1 conductor	mm^2	1...4	1...4	1...4	1...4	1...4	1...2.5	1...2.5	1...2.5	1...2.5
With cable end	2 conductors	mm^2	1...2.5	1...2.5	1...2.5	1...2.5	1...2.5	1...2.5	1...2.5	1...2.5	1...2.5
Solid cable	1conductor	mm^2	1...4	1...4	1...4	1...4	1...4	1...4	1...4	1...4	1...2.5
Without cable end	2 conductors	mm^2	1...4	1...4	1...4	1...4	1...4	1...4	1...4	1...4	1...2.5
Screwdriver	Head		N° 2	N° 2	N° 2	N° 2	N° 2	N° 2	N° 2	N° 2	N° 2
	Φ flat screwdriver		Φ6	Φ6	Φ6	Φ6	Φ6	Φ6	Φ6	Φ6	Φ6
Tightening torque		N.m	1.7	1.7	1.7	1.7	1.7	1.2	1.2	1.2	1.2

Connection via spring terminals (2)

Flexible cable	1 conductor	mm^2	2.5	2.5	2.5	2.5	-	2.5	-	-	-	-
without cable end	2 conductors	mm^2	2.5	2.5	2.5	2.5	-	2.5	-	-	-	-

Connection via bars or lugs

Lug external Φ		mm	8	8	8	8	8	8	8	8	8
Φ of screw		mm	M3.5	M3.5	M3.5	M3.5	M3.5	M3.5	M3.5	M3.5	M3.5
Screwdriver	Head	N°2	N°2	N°2	N°2	N°2	N°2	N°2	N°2	N°2	N°2
	Φ flat screwdriver		Φ6	Φ6	Φ6	Φ6	Φ6	Φ6	Φ6	Φ6	Φ6
Tightening torgue		N.m	1.7	1.7	1.7	1.7	1.7	1.2	1.2	1.2	1.2

(1) To connect cables with a c.s.a. > $4mm^2$ and up to 10 mm^2, it is essential to use special connectors, sold in bags of 100 (reference: CYC1-96180).

(2) If cable ends are used, choose the next size down (example; for 2.5 mm^2, use 1.5 mm^2) and square crimp the cable ends using a special tool.

CLC1-K SERIES AC CONTACTOR

APPLICATION

CLC1-K series AC contactor is suitable for using in the circuit up to the rate and frequent starting, controlling the AC motor. The addtion of auxiliary contact group to the contactor, combined with the proper thermal relay, can act to protect the circuit bound to overload.

CLC1-K06,09,1210

CLC2-K06,09,1210

CLC1-E03,09

CLC2-E03,09

SPECIFICATIONS

Type	Rated working current A(380V)	AC-3 use group Control power KW				Contact data(1)
		220V	380/415V	440/500V	660V	
CLC1-K06	6	1.5	2.2	3	3	3P+NC 3P+NO
CLC1-K09	9	2.2	4	4	4	3P+NC 3P+NO
CLC1-K12	12	3	5	5	5	3P+NC 3P+NO

Specification \ Type			KLC1-K06	KLC1-K09	KLC1-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 insullation 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		
Mecnical life			3×106		
Auxiliary contact	Conventional thermal current		6A		
	Electrical life (times)	AC-15(360VA)	0.5×10⁶		
		DC-13(13W)			
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		

CLC1-E 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.

Standard power ratings of 3-phase motor 50-60Hz jin category AC-3 220V 380V 660V 203V 400V 415V 440V 500V 690V						Rated operating current AC-3 AC-1 up to θ ≤40℃ 440		Rated non-conductive voltage	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage(2) Fixing(1)
KW	KW	KW	KW	KW	KW	A	A	V		
1.5	2.2	2.2	3	3	3	6	16	660	1 -	CLC1-EC03*
									- 1	CLC1-EC09*
2.2	4	4	4	4	4	9	16	660	1 -	CLC1-EC03*
									- 1	CLC1-EC09*

CLA1-D KLA2-D CONTACT BLOCK

CLA1-DN11

CLA1-DN40

CLA2-DT2

CLA2-DT2

CLE4-11K

CLE4-22K

APPLICATION

CLA1-D series auxiliay contact blocks are installed on the top of CA2-D control relay or CLC1-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.

SPECIFICATIONS

Type	CLA1-DN02	CLA1-DN11	CLA1-DN20	CLA1-DN22	CLA1-DN40	CLA1-DN04	CLA1-DN13	CLA1-DN31
Contact number	2NC	NO+NC	2NO	2NO+2NC	4NO	4NC	1NO+1NC	3NO+3NC

APPLICATION

CLA2-D timer delay auxiliary contact blocks are combined with CLC1-D AC contactor & CLA1-D Auxiliary contact block into CLC3-D star-delta reduced volt-age starter is to start motor.

SPECIFICATIONS

Type	Delay range	Number of the delay contacts
CLA2-DT0	0.1~3s	NO+NC
CLA2-DT2	0.1~30s	
CLA2-DT4	10~180s	
CLA3-DR2	0.1~0.3s	
CLA3-DR4	10~180s	
CLA3-DR2	0.1~3s	

CLX1-D2:	Used for Contactor	CLC1-D09 to KLC1-D18
CLX1-D4:	Used for Contactor	CLC1-D25 to KLC1-D32
CLX1-D6:	Used for Contactor	CLC1-D40 to KLC1-D95
CLX1-FF:	Used for Contactor	CLC1-F115 to KLC1-F150
CLX1-FG:	Used for Contactor	CLC1-F185 to KLC1-F225
CLX1-FH:	Used for Contactor	CLC1-F265 to KLC1-F330
CLX1-FJ:	Used for Contactor	CLC1-F400
CLX1-FK:	Used for Contactor	CLC1-F500
CLX1-FL:	Used for Contactor	CLC1-F630
CLX1-FK(1):	Used for Contactor	CLC1-F780

CLX1

CLX1-FK

CLA9-01
CLA9-02

CLC4 SERIES 4-POLE CONTACTOR

CONTROL CIRCUIT:AC OR DC

CLC4-09004

CLC4-5004

AC-3 AC-1 440V 0 ≤40℃(A)		Rated noncon-ductive voltage	Power poles	Reference
		Control	circuit:a. c.	~
9	25	690	4 -	CLC4-09004
			2 2	CLC4-09008
12	25	690	4 -	CLC4-12004
			2 2	CLC4-12008
25	40	690	4 -	CLC4-25004
			2 2	CLC4-25008
40	60	690	4 -	CLC4-40004
			2 2	CLC4-40008
50	80	690	4 -	CLC4-50004
			2 2	CLC4-50008
65	80	690	4 -	CLC4-65004
			2 2	CLC4-65008
80	125	690	4 -	CLC4-80004
			2 2	CLC4-80008
95	125	690	4 -	CLC4-95004
			2 2	CLC4-95008

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 400V	Capacity	18(16)	20	15	20	32
	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 flashy flow						
Coil	Working voltage Us 50Hz V	220,380or according to user erqurements				
	Operating range	0.85~1.1Us				
	Consumed power(VA) start	68		115		200
	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 curent 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

CLP1-D SERIES DC OPERATED AC CONTACTOR

SPECIFICATIONS

CLP1-09

CLP1-40

Type	Rated working currentA IeA (AC-3)	Rated heat current Ith(A)	Rated work-ing voltage Ue A	Rated insulat-ing voltage Ui A	Controlled Power(KW)					Electri-cal life (AC-3) 10^4	Con-tacts Num-ber
					220V	380V	415V	440V	660V		
CLP1-D09	9	20	380V 660V	660V	2.2	4	4	4	5.5	660V	3P+NO 3P+NC 3P+NO +NC
CLP1-D12	12	20			3	5.5	5.5	5.5	7.5		
CLP1-D18	18	32			4	7.5	9	9	9		
CLP1-D25	25	40			5.5	11	11	11	15		
CLP1-D32	32	50			7.5	15	15	15	18.5		
CLP1-D40	40	60			11	18.5	22	22	30		
CLP1-D50	50	80			15	22	25	30	33		
CLP1-D65	65	80			18.5	30	37	37	37		
CLP1-D80	80	125			22	37	45	45	45		
CLP1-D95	95	125			25	45	45	45	45		

CLC2-D/F MECHANICAL INTERLOCKING CONTACTOR

SPECIFICATIONS

CLC2-50N

CLC2-115N

Type	Rated current AC-3(A)	Controlled power(KW)				
		220V	380V	415V	440V	660V
CLC2-D0901	9	2.2	4	4	4	5.5
CLC2-D1201	12	5.5	5.5	5.5	5.5	7.5
CLC2-D1801	18	7.5	7.5	9	9	10
CLC2-D2501	25	5.5	11	11	11	15
CLC2-D3201	32	7.5	15	15	15	18.5
CLC2-D4011	40	18.5	18.5	22	22	30
CLC2-D5011	50	15	22	25	25	33
CLC2-D6311	63	18.5	30	37	37	37
CLC2-D8011	80	22	37	45	45	45
CLC2-D9511	95	22	45	45	45	41

CLC1-F AC CONTACTOR

APPLICATION

CLC1-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 cir-cuit 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.

CLC1-115F

CLC1-150F

CLC1-630F

SPECIFICATIONS

Type		CLC1-F115	CLC1-F150	CLC1-F185	CLC1-F225	CLC1-F265
Rated operation corrent(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		CLC1-F330	CLC1-F400	CLC1-F500	CLC1-F630	CLC1-F780
Rated operation corrent(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

CLC1-780F

CLC1-1154F

CLC1-2254F

C3RT SERIES AC CONTACTOR

C3RT-25

C3RT-50

C3RT-95

Rated current	TYPE	Voltage
S00 9A	C3RT1016-1AB01 C3RT1016-1AK61 C3RT1016-1AR11 CON(INA+ONC)	24 120 220 440
S0 25 A	C3RT1026-1AB60 C3RT1026-1AN20 C3RT1026-1AR10	120 220 440
S2 32 A	C3RT1034-1AJ16 C3RT1034-1AN16 C3RT1034-1AR16	115 220 440
S2 50 A	C3RT1036-1AJ16 C3RT1036-1AN16 C3RT1036-1AR16	115 220 440
S3 80 A	C3RT1045-1AJ16 C3RT1045-1AN16 C3RT1045-1AR16	115 220 440
		C.C.
9 A 15 A 22 A 35 A	C3RT1016-1BB41 C3RT1016-1BB40 C3RT1016-1BB40 C3RT1016-1BB40	24 V
Rated current	TYPE	No. The Ejecucion de contactors
Rated current	C3RH1911-IFA22 C3RH1921-1FA22 C3RH1911-1EA11	2NA+2NC 2NA+2NC 2NA+2NC

C3TF AC CONTACTOR

TECHNICAL SPECIFICATION:

C3TF30/31

C3TF32/33

C3TF34/35

Type	Rated Thermal current (A)	Rated operation current(A)		Controllabe power of motor(KW)				Type of Auxiliary contact
				AC-3		AC-4		
		380V	660V	380V	660V	380V	660V	
C3TF30	20	9	7	4	5.5	1.4	2.4	NO NC 1NO+1NC 2NO+2NC
C3TF31	20	12	8.5	5.5	7.5	1.9	3.3	
C3TF32	30	16	12.5	7.5	11	3.5	6	
C3TF33	30	22	16.5	10	15	4	6.6	
C3TF34	55	32	24	15	22	7.5	13	
C3TF35	55	38	30	18.5	22	9	15.5	
C3TF40	20	9	7	4	5.5	1.4	2.4	
C3TF41	20	12	8.5	5.5	7.5	1.9	3.3	
C3TF42	30	16	12.5	7.5	11	3.5	6	
C3TF43	30	22	16.5	10	15	4	6.6	
C3TF44	55	32	24	15	22	7.5	13	
C3TF45	55	38	30	18.5	22	9	15.5	
C3TF46	80	45	40	22	37	12	20.8	2NC+2NO 2NC+4NO
C3TF47	80	63	60	30	55	14	24.3	
C3TF48	100	75	60	37	55	17	29.5	
C3TF49	100	85	80	45	75	21	36	
C3TF50	160	110	95	55	90	27	46.9	
C3TF51	160	140	120	75	110	35	60	
C3TF52	200	170	160	90	150	38	66	
C3TF53	210	205	165	110	160	50	86	
C3TF54	300	250	230	132	220	58	100	
C3TF55	300	300	260	160	250	66	114	
C3TF56	400	400	380	200	355	81	140	
C3TF68	630	630	600	335	560	160	278	

C3TF-40

C3TF-44

C3TF-50

C3TH C3TB C3TD AC CONTACTOR

SPECIFICATIONS

C3TH-80

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 auxliliary contact
				380V	660V	
C3TB40	22	9	7.2	4	5.5	1NO 1NC 1NO+1NC 2NO+2NC
C3TB41	22	12	9.5	5.5	7.5	
C3TB42	35	16	13.5	7.5	11	
C3TB43	35	22	13.5	11	11	
C3TB44	55	32	18	15	15	2NC+2NO

C3TB-44

SPECIFICATIONS

Type	Rated thermal current (A)	Rated operation current (A)		Controllable power of motor (KW)			
				AC-3		AC-4	
		380V	660V	380V	660V	380V	660V
C3TD40	20	9	7	4	5.5	1.4	2.4
C3TD41	20	12	8.5	5.5	7.5	1.9	3.3
C3TD42	30	16	12.5	7.5	11	3.5	6
C3TD43	30	22	16.5	10	15	4	6.6
C3TD44	55	32	24	15	22	7.5	13
C3TD45	55	38	24	18.5	22	9	15.5
C3TD46	80	45	40	22	37	12	20.8
C3TD47	80	63	60	30	55	14	24.3
C3TD48	100	75	60	37	55	17	29.5
C3TD49	100	85	80	45	75	21	36
C3TD50	160	110	95	55	90	27	46.9
C3TD51	160	140	120	75	110	35	60
C3TD52	200	170	160	90	150	38	66
C3TD53	210	205	165	110	160	50	86
C3TD54	300	250	230	132	220	58	100
C3TD55	300	300	260	160	250	66	114
C3TD56	400	400	380	200	355	81	140
C3TD58	630	630	600	335	560	160	278

C3TD-50

C3TF52/53

CTF54/55

CTF56/57

CGMC AC CONTACTOR

CGMC 9-22

CGMC 32-40

CGMC 50-85

CGMC 100-125

Type				CGMC-9	CGMC-12	CGMC-18	CGMC-22	CGMC-32	CGMC-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				CGMC-50	CGMC-65	CGMC-75	CGMC-85	CGMC-100	CGMC-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	

PAK-H SERIES AC CONTACTOR

APPLICATION

PAK-11H

PAK-H series AC contactor is suitable for using in the circuits up to rated voltage 500V AC 50Hz or 60Hz for making and breaking remote circuits and rated operating current 6,9,11,12,18, 20,25 and 35A at rated operating voltage 380V under utilization category AC-3.It can be conmbined with suitable thermal overload relays to form electro-magnetic starters in order to protect overload circuit.

PAK-25H

Type	Rated insu-ltaged voltage Ui(V)	Rated heating current Ith(A)	Rated working voltage Ue(V)	Rated working current(Ie)& operating frequency at discontinuous cycle				AC-3 Pe (KW)	Com-bining volt-age range (V)	Re-leas-ing volt-age range (V)
				AC-3		AC-4				
				Ie (A)	Operating frequency (1/h)	Ie (A)	Operating frequency (1/h)			
PAK-6H	660	15	200~220	9	1200	3	300	1.5	0.80 — 1.1 Us cold	0.20 — 0.75 Us cold
			380~400	6				2.5		
PAK-11HK		20	200~220	12	1200	3.3	300	3		
			380~400	11				5.5		
PAK-12H		26	200~220	18	1200	4.8	300	3.7		
			380~400	12				5.5		
PAK-18H		28	200~220	20	1200	8.5	300	5.5		
			380~400	18				7.5		
PAK-20H		40	200~220	2	1200	8.5	300	5.5		
			380~400	20				11		
PAK-25H		45	200~220	30	600	11	300	7.5		
			380~400	25				15		
PAK-35H		60	200~220	40	600	16	300	11		
			380~400	35				19		

CEG AC CONTACTOR

CEG-247

SPECIFICATIONS

MEG	Cont.type	SIZE	LUGS CAT NO.	HAND OR HYDRAULIC TOOLS
STOCKO	CEG-47	2X5...16		WZ16TL WHPH2 WHK5...7
	CEG-57	2X6...25		WZ16TL WHPH2 WHK5...7
	CEG-77	2X56...25		WZ16TL WHPH2 WHK5...7
	CEG-107	1/0		WZ31TL WZ36 WHPH2 WHK5...7
	CEG-177	3/0		WZ31TL WHPH2 WHK5 or 7
	CEG-247	300MCM		WZ31TL WHPH2 WHK5.7.8
AMP	CEG-107	1/0	321866	LUG TOOL 12HHT 790000-0
	CEG-177	3/0	321874	LUG TOOL 12HHT 790000-0
				HYDRAULIC TOOL 656166-1
ILSCO	CEG-47	1/0	CRA-O CA5-5P	Cirmping operation can be applied with standard tools
	CEG-107			
	CEG-177	3/0	CRA3/0 CA 6RP	
	CEG-247		CA7	
THOMAS & BETTS CO	CEG-107	1/0	60128(60129)	TBM 5 color tan or 11739
	CEG-177	3/0	60142	TBM 5 color ruby or 11741 or 11408

CEG-177

CA SERIES AC CONTACTOR

APPLICATION

CA series AC contactors, mainly used in 50/60Hz electrical line of the rated voltage up to 660V AC and rated current up to 475A,are applicable for remote making and breaking of electrical lines or frequent control ov AC motors, having no-voltage protection. Usually, it can be combined with T series thermal relay to for m electromagnetic starters which have overload and open-phase protection. It complies with IEC60947 & VDE0660.

CA9

CA25

CA37

TECHNICAL SPECIFICATION

Type		Ca9	Ca12	Ca16	Ca25	Ca30	Ca37	Ca45
The highest control power (kW)	220V	2.2	3	4	6.5	9	10	13
	380V	4	5.5	7.5	11	15	18.5	22
	500V	4	5.5	7.5	11	15	18.5	22
	660V	4	5.5	5.5	11	15	18.5	22
Rated heating current Ith (A)		16	20	25	40	45	45	60
Rated working current AC2/AC3/AC4	380V	8.5	11.5	15.5	22	30	37	44
	660V	3.5	4.9	6.7	13	17.5	21	25
Rated holding power of a holding coil/pull-in(VA/W)		9/2.2 60/50	9/2.2 60/50	9/2.2 60/50	10/3 85/65	10/3 85/65	22/5 175/125	22/5 125

Type		CA65	CA85	CA105	CA170	CA250	CA370
The highest control power (kW)	220V	16	20	28	46	60	32
	380V	33	45	55	90	132	200
	500V	40	50	75	110	160	250
	660V	40	50	75	110	160	250
Rated heating current Ith(A)		80	100	140	230	300	400
Rated working current AC2/AC3/AC4	380V	65	85	105	170	245	370
	660V	45	55	82	118	170	268
Rated holding power of a holding coil/pull-in(VA/W)		30/8 270/130	30/8 270/130	32/9 510/280	60/15 790/460	66/16 1100/600	100/27 900/350

CYC2-388 THRU CYC2-396
1/2POLE CONTACTORS (30A THRU 40A)

Straight-Through Wiring, Replaces 1 ½ Pole Devices Used Primarily in Residential Central Air Conditioning

1P/20-40A

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.

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 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 rated voltage
Weight (approximate)	9.25 oz
Coils Frequency	50/60 Hz
Coil Insulation	Class B (130℃)
Termination	Screw and Double ¼ " Q.C.
Operate	85% of nominal coil coltage; 110% maximum safe operate
Duty Cycle	Continuous

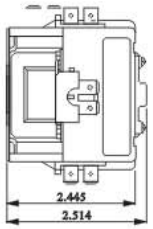
COIL DATA

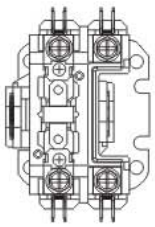
Steveco Number 30 Amp 40 Amp	Voltage AC	Ress DC OHMS	Current MA	Nominal VA	Max. Inrush VA
CYC2-388 CYC2-394	24	16.5	208	5	20
CYC2-389 CYC2-395	120	420	42	5	20
CYC2-390 CYC2-396	208/240	1825	21	5	20

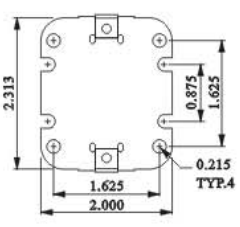
1P/20-40A

CONTACT RATINGS

Type	Voltage	FLA	LRA	RES
CYC2-388	277	30	150	40
thru	480	30	75	40
CYC2-390	600	30	50	40
CYC2-394	277	40	200	50
thru	480	40	100	50
CYC2-396	600	40	80	50







CYC2-244 THRU CYC2-252
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 double¼" 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
Outline Drawings	See page 196
Weight (approximate)	9.5 oz
Coils Frequency	50/60 Hz
Coil Insulation	Class B (130℃)
Termination	Pressure connector and Double¼" Q.C.
Operate	85% of nominal coil voltage; 110% maximum sate operate
Duty Cycle	Continuous

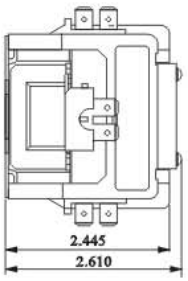
COIL DATA

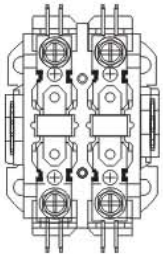
Steveco Number 30 Amp 40 Amp	Voltage AC	Res DC OHMS	Current MA	Nominal VA	Max. Inrush VA
CYC2-244 CYC2-247	24	11	250	6	32
CYC2-245 CYC2-248	120	224	50	6	32
CYC2-246 CYC2-249	208/240	997	25	6	32

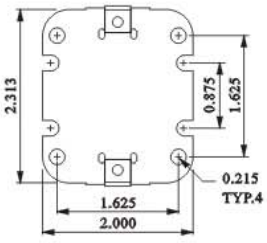
CONTACT RATINGS

Type	Voltage	FLA	LRA	RES
CYC2-244	277	30	150	40
thru	480	30	75	40
CYC2-246	600	30	50	40
CYC2-247	277	40	200	50
thru	480	40	100	50
CYC2-252	600	40	80	50

2P/20-40A(advanced)







CYC2-160 THRU CYC2-172
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	-40oF to 150oF
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℃) 24 through 208/240 Volts AC
Termination	Pressure connector and Double¼" Q.C.
Operate	85% of nominal coil voltage; 110% maximum sate operate
Duty Cycle	Continuous

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

Steveco Number 25 Amp 30 Amp	Coil Voltage AC (60 Hz)	Res DC OHMS	Current MA	Nominal VA	Max. Inrush VA
CYC2-160 CYC2-163	24	7.2	187	4.5	52
CYC2-161 CYC2-164	120	180	37	4.5	52
CYC2-162 CYC2-165	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
CYC2-160	Full Load	25 A.	25 A.	25 A.
thru	Lock Rotor	150 A.	125 A.	100 A.
CYC2-162	Resistive	40 A.	40 A.	40 A.
CYC2-163	Full Load	30 A.	30 A.	30 A.
thru	Lock Rotor	180 A.	150 A.	120 A.
CYC2-165	Resistive	50 A.	50 A.	50 A.

3P/30,40A

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

Steveco Number 40 Amp	Coil Voltage AC (60 Hz)	Res DC OHMS	Current MA	Nominal VA	Max. Inrush VA
CYC2-170	24	7.2	187	4.5	52
CYC2-171	120	180	37	4.5	52
CYC2-172	208/240	720	19	4.5	52

Type	Voltage	277 VAC	480 VAC	600 VAC
CYC2-170	Full Load	40 A.	40 A.	40 A.
thru	Lock Rotor	240 A.	200 A.	160 A.
CYC2-172	Resistive	50 A.	50 A.	50 A.

CYC2-459 THRU CYC2-473
3 POLE CONTACTORS (50A/90A)

FEATURES

- Interchangeable mounting.
- Double break contacts.

SPECIFICATIONS

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

3P/50,60A

COIL CHARACTERISTICS

Induct	Frequency	Max. Inrush		Sealed (Max.)	
FLA	Hz.	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
CYC2-459	24V	50 Amp	65 Amp	300 Amp	120V
CYC2-460	120V	50 Amp	65 Amp	300 Amp	240V
CYC2-461	208/240V	50 Amp	65 Amp	200 Amp	480V
				200 Amp	600V

Steveco Model Number	Coil Volts	Induct FLA	Resistive Per Pole	Locked Rotor	@ Line Voltage
CYC2-463	24V	60 Amp	75 Amp	360 Amp	120V
CYC2-464	120V	60 Amp	75 Amp	360 Amp	240V
CYC2-465	208/240V	60 Amp	75 Amp	300 Amp	480V
				240 Amp	600V

3P/75,90A

Steveco Model Number	Coil Volts	Induct FLA	Resistive Per Pole	Locked Rotor	@ Line Voltage
CYC2-467	24V	75 Amp	90 Amp	450Amp	240V
CYC2-468	120V	75 Amp	90 Amp	375 Amp	480V
CYC2-469	208/240V	75 Amp	90 Amp	300 Amp	600V
CYC2-471	24V	90 Amp	120 Amp	450 Amp	240V
CYC2-472	120V	90 Amp	120 Amp	450 Amp	480V
CYC2-473	208/240V	90 Amp	120 Amp	360 Amp	600V

CYS7 CONTACTOR STARTERS,STAR.DELTA STARTERS

SPECIFICATION

CYE7

Type	Rated curren AC$_3$415(A)	3-phase motor capacity AC$_3$load415V	
Direct-on-line,surface mounting Direct-on-line,flush mounting Direct-on-line,surface mounting,reversing Direct-on-line,surface mounting,with isolator	0.74-1.11A	0.37KW	0.50HP
	1.11-1.66A	0.55KW	0.75HP
	1.66-2.50A	1.10KW	1.50HP
	2.50-3.70A	1.50KW	2.00HP
	3.70-5.60A	2.50KW	3.40HP
	5.60-8.40A	4.00KW	5.50HP
	8.40-11.9A	5.50KW	7.50HP
	11.4-16.0A	7.50KW	10.0HP
	16.0-23.0A	11.0KW	15.0HP
	22.0-33.0A	15.0KW	20.0HP

CYS7

Type	Rated curren AC$_3$415(A)	3-phase motor capacity AC$_3$load415V	
Direct-on-line,surface mounting Direct-on-line,flush mounting Direct-on-line,surface mounting,reversing Direct-on-line,surface mounting,with isolator	4.30-6.40A	3.00KW	4HP
	6.40-9.70A	5.00KW	6.8HP
	9.70-14.5A	7.50KW	10.0HP
	14.5-20.6A	10.0KW	13.5HP
	19.7-27.7A	15.5KW	20.0HP
	26.0-38.0A	22.00KW	30.0HP
	38.0-57.0A	30.00KW	40.0HP

CYE

MSB MAGNETIC STARTER

APPLICATIONS

MSBseries electromagnetic starters are used in a power line,AC 50-60Hz to start. stop and convert motors,and protect motors from overload and phase failure MBS9-msb80 starters and convertible starters have two types:open type and protcetive cover type

SPECIFICATION

MSB-9

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

MS-N MS-K MAGNETIC STARTER

APPLICATIONS

MS-N & MS-K series magnetic starters are 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.

MS-K11

MS-K21

SPECIFICATION

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	–	
MS-N18(MS-K18)	18	16	4.5	7.5	7.5	7.5	1	–	
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 3.6A 5A 6.6A 9A 11A 15A
MS-N21(MS-K21)	22	22	5.5	11	11	7.5	1	2	
MS-N25(MS-K25	30	30	7.5	15	15	11	1	2	
MS-N35(MS-K35)	40	40	11	18.5	18.5	15	1	2	
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	
MS-N80(MS-K80)	85	85	22	45	45	45	1	2	
MS-N95(MS-K95)	105	105	30	55	55	55	1	2	

3.6A 5A 6.6A 9A 11A 15A — 19A / 22A / 29A / 35A

15A 22A 29A 35A 42A 54A — 37A / 82A / 95A

MS-K25

MT-11

MT-21

CMW ENCLOSED ENCLOSED TYPE MAGNETIC SWITCH

RATINGS

CMW-5CP

Type	Rated power(kW)			Rated current(A)			AC1 duty (A)	Setting current (A)
	AC3 duty			AC3 duty				
	220V~ 220V	380V~ 440V	500V~ 550V	220V~ 220V	380V~ 440V	500V~ 550V		
CMW-5CP	3.7	7.5	9	13	12	12	20	2-4,4-8,8-16

CMW 9-22B

Type	Rated power(kW)					Rated current(A)			AC1 duty
	1 pole motor		AC3 duty			AC3 duty			
	110V	220V	220V~ 220V	380V~ 440V	500V~ 550V	220V~ 220V	380V~ 440V	500V~ 550V	A
CMW-9(B)	0.4	0.8	2.5	4	4	11	9	7	20
CMW-12(B)	0.5	1	3.5	5.5	7.5	13	12	12	20
CMW-18(B)	0.75	1.5	4.5	7.5	7.5	18	18	13	25
CMW-22(B)	0.9	1.8	5.5	11	15	22	22	22	32
CMW-32(B)	1.2	-	7.5	15	18.5	32	32	28	50
CMW-40(B)	1.7	-	11	18.5	22	40	40	32	60
CMW-50(B)	-	-	15	22	30	55	50	43	80
CMW-65(B)	-	-	18.5	30	37	65	65	60	100
CMW-75(B)	-	-	22	37	45	75	75	64	110
CMW-85(B)	-	-	25	45	45	85	85	75	135
CMW-100(B)	-	-	30	55	55	105	105	85	150
CMW-125(B)	-	-	37	60	60	125	120	90	150

CMW 32-40B

Type		Rated power(kW)					Rated current(A)			AC1 duty
		1 pole motor		AC3 duty			AC3 duty			
Without PB	Push button type	110V	220V	220V~ 220V	380V~ 440V	500V~ 550V	220V~ 220V	380V~ 440V	500V~ 550V	A
CMW-9M	CMW-9MB	0.4	0.8	2.5	4	4	11	9	7	20
CMW-112M	CMW-112MB	0.5	1	3.5	5.5	7.5	12	12	12	20
CMW-18M	CMW-18MB	0.75	1.5	4.5	7.5	7.5	18	18	13	25
CMW-22M	CMW-22MB	0.9	1.8	5.5	11	15	22	22	22	32

CMW50-85

CMW-22MB

CMW-22M

CLE1-D MAGNETIC STARTER

APPLICATION

CLE1-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.

CLE1-09,12,18

CLE1-09,12,18

CLE1-25,32

CLE1-40,95

SPECIFICATION

Maximum power AC3 duty(KW)						Rated current (A)	Type of enclosure	Code Number		Suitable Thermal Relay(A)
220V 230V	380V 400V	415V	440V	500V				LL (long life)	NL(3) (normal life)	
1.1	2.2	22	22	-	-	6	-	-	CLE1 EC135	LE1 EC135
2.2	4	4	4	5.5	5.5	9	IP42 IP65	CLE1 D094... CLE1 D093...	- -	LR2 D1312 LR2 D1314
3	5.5	5.5	5.5	7.5	7.5	12	IP42 IP65	CLE1 D124... CLE1 D123...	CLE1 D094... CLE1 D093...	LR2 D1316
4	7.5	9	9	10	10	18	IP42 IP65	CLE1 D188... CLE1 D185...	CLE1 D124... CLE1 D123...	LR2 D1321
5.5	11	11	11	15	15	25	IP42 IP65	CLE1 D258... CLE1 D255...	CLE1 D188... CLE1 D185...	LR2 D1322 LR2 D2353
7.5	15	15	15	18.5	18.5	32	IP55	CLE1 D325...	CLE1 D255...	LR2 D2355
11	18.5	22	22	22	30	40	IP55	CLE1 D405...	CLE1 D325...	LR2 D3353 LR2 D3355
15	22	25	30	30	33	50	IP55	CLE1 D505...	CLE1 D405...	LR2 D3357 LR2 D3359
18.5	30	37	37	37	37	65	IP55	CLE1 D655...	CLE1 D505...	LR2 D3361
22	37	45	45	55	45	80	IP55	CLE1 D805...	CLE1 D655...	LR2 D3363 LR2 D3365
25	45	45	45	55	45	95	IP55	CLE1 D955...	CLE1 D805...	LR2 D3365

Enclosure	CLE-D09 and D12	Double insulated,protected to IP 429 (3) or to IP 659(4)
	CLE-D18 and D25	Double insulated,protected to IP 427 (3) or to IP 557(4)
	CLE1-D32...D25	Metal,IP55 to Ip559
Control(2 pushbuttons mounted on enclosure cover)	CLE1-D09...D95	1 green Start button "1" 1 red Stop/Reset button "O"
Connections	CLE1-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

CLE1-D(NEW)MAGNETIC STARTER

APPLICATIONS

CLE1-Dmagnetic 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 weitght, low power consumption, high efficiency, safe and reliable performance etc.

CLE1-D0901N

CLE1-D09N

CLE1-D18N

CLE1-D32N

SPECIFICATION

Maximum power AC3 duty(KW)						Rated current (A)	Type of enclo-sure	Code number		Suitable thermal relay(A)
220V 230V	380V 400V	415V	440V	500V	660V 690V			LL (long life)	NL(3) (normal life)	
2.2	4	4	4	5.5	5.5	9	IP42 IP65	CLE1 D094.. CLE1 D093..	— —	CLR2 D1312 CLR2 D1314
3	5.5	5.5	5.5	7.5	7.5	12	IP42 IP55	CLE1 D124.. CLE1 D123..	CLE1 D094.. CLE1 D093..	CLR2 D1316
4	7.5	9	9	10	10	18	IP42 IP55	CLE1 D188.. CLE1 D185..	CLE1 D124.. CLE1 D123..	CLR2 D1321
5.5	11	11	11	5	5	25	IP42 IP55	CLE1 D258.. CLE1 D255..	CLE1 D188.. CLE1 D185..	CLR2 D1322 CLR2 D2353
7.5	15	15	15	18.5	18.5	32	IP55	CLE1 D325..	CLE1 D255..	CLR2 D2355
11	18.5	22	22	22	22	40	IP55	CLE1 D405..	CLE1 D325..	CLR2 D3353 CLR2 D3355
15	22	25	25	30	30	50	IP55	CLE1 D505..	CLE1 D405..	CLR2 D3357 CLR2 D3359
18.5	30	37	37	37	37	65	IP55	CLE1 D655..	CLE1 D505..	CLR2 D3361
22	37	45	45	55	45	80	IP55	CLE1 D805..	CLE1 D655..	CLR2 D3363 CLR2 D3365
25	45	45	45	55	45	95	IP55	CLE1 D955..	CLE1 D805..	CLR2 D3365

SPECIFICATION

Enclosure	CL31-D09 and D12	Double insulated,protected to IP42 (3) or to IP659(4)
	CL31-D18 and D25	Double insulated,protected to IP427 (3) or to IP557(4)
	CL31-D32...D95	Metal IP55to IP427
Control(2 pushbuttons mounted on enclosure cover)	CL31-D09...D95	1 green Start butto"I" 1red Stop/Reset button"O"
connections	CL31-D09...D95	Pro-wired power and control circuit connections

Standard control circuit voltages

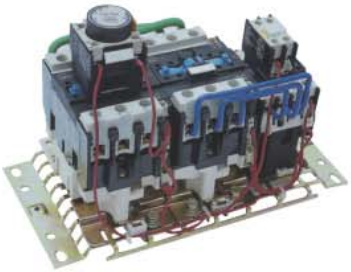
Volts	24	42	48	110	220/230	230	240	380/400	400	415	440
50/50Hz	B7	D7	E7	F7	M7	P7	U7	Q7	V7	N7	R7

CLC3-D STAR-DELTA REDUCED VOLTAGE STARTER

APPLICATION

CLC3-D series star-delta reduced voltage starter is suitable for starting motor in the circuit of AC 50/60Hz,voltage up to 660V and curren up to 95A.It is proided with a timer for automatic changover of star-delta to reduce the voltage and current of motor starting:

CLC3-D183



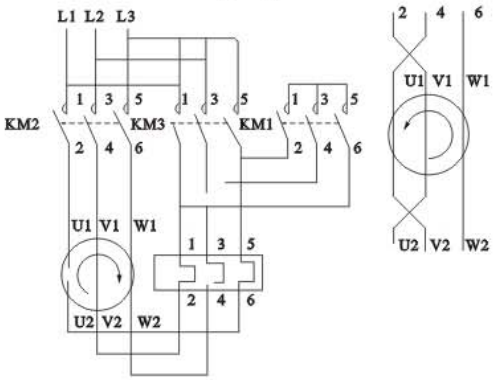
CLC3-D503

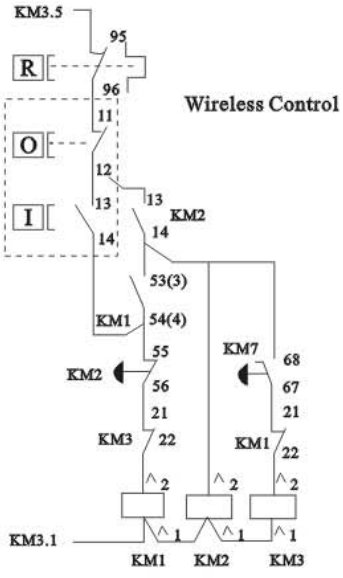
CLC3-D803

SPECIFICATION

Type	Rated opertaing current(A)	3-phase motor capacity(KW)			
	AC3	AC3 Loaded			
		220V	380V	415V	440V
CLC3-D093	9	4	7.5	7.5	7.5
CLC3-D123	12	5.5	11	11	11
CLC3-D183	18	11	18.5	22	22
CLC3-D253	25	11	22	22	22
CLC3-D323	32	15	25	33	30
CLC3-D403	40	18.5	37	37	37
CLC3-D503	50	30	55	59	59
CLC3-D653	65	32	55	59	59
CLC3-D803	80	37	75	75	75
CLC3-D953	95	45	80	80	80

Wiring Diagram





MEBA ELECTRIC ENTERPRISES.

ADD | HOUJIE INDUSTRIAL ZONE, LIUSHI,
YUEQING, ZHEJIANG, CHINA.
TEL | 0086-577-27866868 27863828 27863818 (direct)
FAX | 0086-577-27866767 27863890

M.B | 0086-13600662615
E-MAIL | lucollin@meba.cn
MSN | lucollin@hotmail.com
WEBSITE | www.meba.cn