

TECO

CU & CN Series ▶

AC/DC Magnetic Contactors

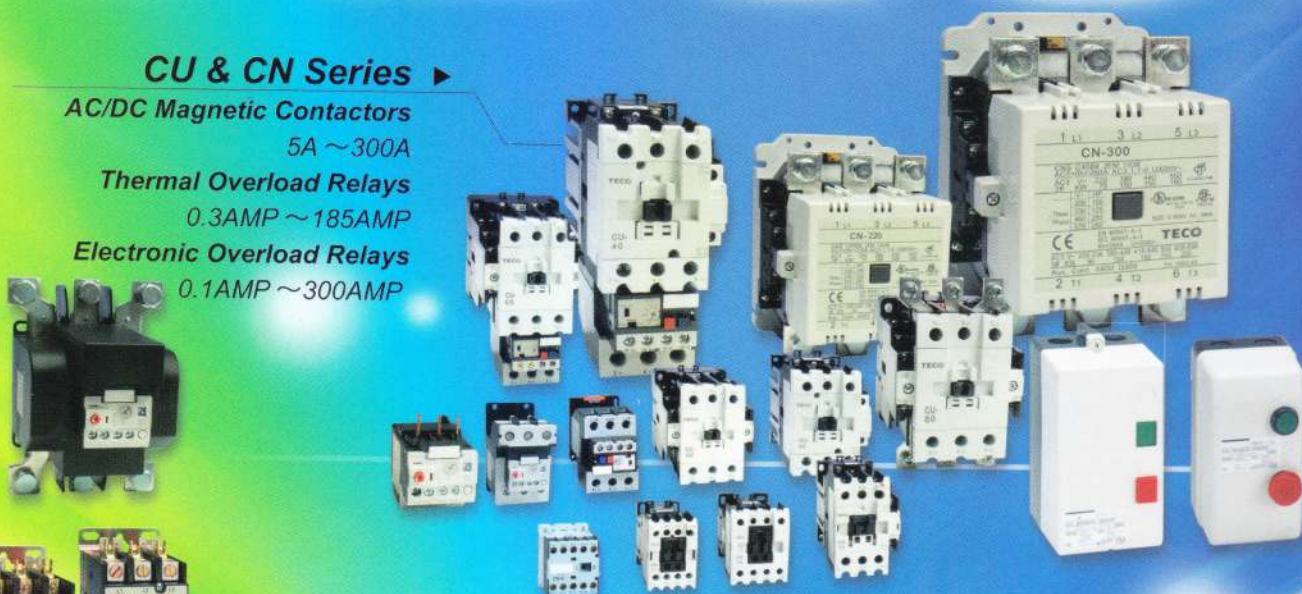
5A ~ 300A

Thermal Overload Relays

0.3AMP ~ 185AMP

Electronic Overload Relays

0.1AMP ~ 300AMP



◀ DPA Series

Definite Purpose

Contactors for HVAC Systems



Molded Case Circuit Breakers ▶



 Suruhanjaya Tenaga



MS IEC 6047-1:1996
MS IEC 6047-4:1996
PT022805



MS ISO 9001:2000 REG NO. AR 1030



UKAS
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MANAGEMENT
074

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DOL Series

Direct On Line Magnetic Starters



D.O.L. Magnetic Starters

RATED CAPACITY AC 3						STEEL ENCLOSURE	ABS ENCLOSURE	IP - 66 ABS ENCLOSURE
1 Ø 240V		T.O.R. RATED AMPS	3 Ø 415V		T.O.R. RATED AMPS	TYPE	TYPE	TYPE
HP	KW		HP	KW				
1/4	0.18	3	1/4	0.18	0.55	H-11LB	HP-11LB	HKFB-16LB
1/2	0.37	4	1/2	0.37	1.2			
3/4	0.55	5	3/4	0.55	1.2			
1	0.75	7	1	0.75	1.75			
-	-	-	1.5-2	1.5	3			
-	-	-	3	2.2	5			
-	-	-	4	3	7			
-	-	-	5	3.7	7			
1.5	1.1	10	-	-	-	H-16LB	HP-16LB	HKFB-16LB
2	1.5	13	-	-	-			
-	-	-	7.5	5.5	13	H-16LB	HP-16LB	HKFB-16LB
3	2.2	15	10	7.5	15	H-18LB	-	-
-	-	-	15	11	20	H-20LB	-	-
5	3.7	26	20	15	26	H-25LB	-	-
2	1.5	13					HP-T 11LB	
2.5	2.2	15					HP-T 16LB	

DOL Series

Direct On Line Magnetic Starters



D.O.L. Magnetic Starters Combination Tables

	MOTOR CAPACITY	KW	0.18	0.37	0.55	0.75	1.1	1.5	2.2	3	3.7	5.5	7.5	11	15	18.5	22
		HP	1/4	1/2	3/4	1	1.5	2	3	4	5	7.5	10	15	20	25	30
SINGLE PHASE	MOTOR FULL LOAD CURRENT	A	2.3	4.1	5	6.75	9.5	11.3	14.5	-	24.5						
	MAGNETIC CONTACTOR (MC)	C-	11L	11L	11L	11L	16L	16L	18L	-	25L						
220V 50-60 HZ	THERMAL OVERLOAD RELAY (TOR)	RH-	10	10	10	10	10	10	18	-	18						
	RATED OVERLOAD CURRENT	A	3	4	5	7	10	13	15	-	26						
	MOLDED CASE CIRCUIT BREAKER (MCCB)										50S						
			30S	30S	30S	30S	30S	30S	30S	-	50E						
	MCCB RATED CURRENT (AMPERE)	A	15	15	15	15	15	20	20	-	40						
THREE PHASE	MOTOR FULL LOAD CURRENT	A	0.7	1.2	1.6	2	3	3.9	5.7	7.5	9.1	13	16.8	24.3	31.5	39	46.2
	MAGNETIC CONTACTOR (MC)	C-	11L	11L	11L	11L	11L	11L	11L	11L	11L	16L	18L	20L	25L	35L	35L
380V 50-60 HZ	THERMAL OVERLOAD RELAY (TOR)	RH-	10	10	10	10	10	10	10	10	10	18	18	18	35	35	35
	RATED OVERLOAD CURRENT	A	0.8	1.2	1.7	2.2	3	4	5	7	10	15	15	26	30	42	42
	MOLDED CASE CIRCUIT BREAKER (MCCB)											50S	50S	100S	100S	100S	
			30S	30S	30S	30S	30S	30S	30S	30S	30S	30S	50E	50E	100E	100E	100E
	MCCB RATED CURRENT (AMPERE)	A	15	15	15	15	15	15	15	20	20	38	48	58	75	75	75
THREE PHASE	MOTOR FULL LOAD CURRENT	A	0.65	1.0	1.4	1.8	2.6	3.4	4.9	6.5	7.6	11.2	14.5	21	27	34	40
	MAGNETIC CONTACTOR (MC)	C-	11L	11L	11L	11L	11L	11L	11L	11L	11L	16L	18L	20L	25L	35L	35L
440V 50-60 HZ	THERMAL OVERLOAD RELAY (TOR)	RH-	10	10	10	10	10	10	10	10	10	18	18	18	35	35	35
	RATED OVERLOAD CURRENT	A	0.55	1.2	1.2	1.7	3	3	5	7	7	13	15	20	26	30	42
	MOLDED CASE CIRCUIT BREAKER (MCCB)											50S	50S	50S	100S	100S	
			30S	30S	30S	30S	30S	30S	30S	30S	30S	30S	50E	50E	50E	100E	100E
	MCCB RATED CURRENT (AMPERE)	A	15	15	15	15	15	15	15	20	20	30	40	40	75	60	75

DOL Series

Direct On Line Magnetic Starters

D.O.L. Magnetic Starters



Catalogue number	Non-Reversing Magnetic Starters		IP 00	HUO-11			HUO-16			HUO-18			HUO-22			HUO-27			HUO-32			HUO-38			HUO-40			HUO-50							
			IP 40	HUE-11			HUE-16			HUP-18			HUP-22			HU-27			HU-32			HU-38			HU-40			HU-50							
			IP 65	HUF-11			HUF-16			HUF-18			HUF-22			—			—			—			—										
			IP 40	HUEB-11			HUEB-16			HUPB-18			HUPB-22			HUB-27			HUB-32			HUB-38			HUB-40			HUB-50							
			IP 65	HUFB-11			HUFB-16			HUFB-18			HUFB-22			—			—			—			—										
Rated insulation voltage (UI) IEC / UL V				690/600			690/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600							
				A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp					
AC3 duty Maximum power rating (50/60Hz) IEC 60947-4-1 CNS 14816				Single Phase		110V	10.5	0.55	0.75	13.5	0.75	1	19.5	1.1	1.5	25.5	1.5	2	30	1.5	2	35	1.5	2	39	2.2	3	43	2.2	3	48	3	4		
						220V	10.5	1.1	1.5	14	1.5	2	20.5	2.2	3	26	3	4	30	3	4	35	3.7	5	39	5	7	43	5.5	7.5	48	6	8		
				Three Phase		220/230V	12	3	4	16	4	5.5	23	5.5	7.5	27	7.5	10	30	7.5	10	35	9	12	39	11	15	44	11	15	55	15	20		
						380/400V	12	5.5	7.5	16	7.5	10	22	11	15	26	11	15	30	15	20	32	15	20	38	18.5	25	40	20	27	55	25	35		
						415V	11	5.5	7.5	15	7.5	10	21	11	15	21	11	15	28	15	20	32	15	20	38	22	30	40	22	30	52	25	35		
						440V	11	5.5	7.5	15	7.5	10	21	11	15	21	11	15	27	15	20	32	15	20	38	22	30	40	22	30	52	30	40		
						500V	9	5.5	7.5	13	7.5	10	19	11	15	19	11	15	26	15	20	30	18.5	25	33	22	30	35	22	30	45	30	40		
660V	7	5.5	7.5	10	7.5	10	14	11	15	14	11	15	21	15	20	23	18.5	25	25.2	22	30	26	22	30	35	30	40								
690V	7	5.5	7.5	10	7.5	10	14	11	15	14	11	15	20	15	20	22	18.5	25	24.2	22	30	26	22	30	35	30	40								
Thermal overload relay used.				RHN-10/□						RHN-10/□						RHN-80/□4						RHN-80/□2													
Magnetic contactor used.				CU-11			CU-16			CU-18			CU-22			CU-27			CU-32			CU-38			CU-40			CU-50							
 Overall Dimensions: w x h x d (mm) / (kg)				IP 00		46x119x82 / 0.5						55x124.3x92 / 0.8						58x146.2x111.7 / 1.0						69x150.5x111.7 / 1.2						93					
				IP 40		88x160x94 / 0.85						100x194x106.5 / 0.9						130x240x130 / 2.0						130x240x130 / 2.0						1					
				IP 65		90x184x106 / 0.85						100x194x106.5 / 0.9						—						—											
				IP 40		88x160x107.5 / 0.9						88x162.6x112 / 0.9						130x240x136 / 2.2						130x240x136 / 2.2						17					
				IP 65		90x184x112 / 0.9						100x194x122.5 / 0.9						—						—											

Note : TECO also supplys Star-Delta Starters.

Definite Purpose Contactor - DPA Series

The DPA conta

Catalogue number			DPA-1020	DPA-1520	DPA-2020	DPA-1025	DPA-1525	DPA-2025	DPA-1030	DPA-1530	DPA-2030	DPA-1040	DPA-1540	DPA-2040			
Photos			 DPA-1020 51.5x83.4x66			 DPA-1525 51.5x83.4x66			 DPA-2030 51.5x83.4x66			 DPA-2040 51.5x83.4x66					
Number of poles			1	1+ SHUNT	2	1	1+ SHUNT	2	1	1+ SHUNT	2	1	1+ SHUNT	2			
Terminal			SCREW / LUG			SCREW / LUG			SCREW / LUG			SCREW / LUG					
Rated Insulation Voltage (Ui) UL/IEC			600/660														
Operation Voltage (Ue) UL/IEC			600/660														
Duty thermal current (Ith) UL/IEC			30			35			40			50					
AIR-CONDITIONING & REFRIGERATION INSTITUTE Standard 780/790	Full load amps (FLA)		20			25			30			40					
	Locked rotor amps (LRA) A	Single Phase	240/277V			120			150			180			240		
			480V			100			125			150			200		
			600V			80			100			120			160		
Resistance Load (RES) A			30			35			40			50					
UL 508	Full Load current (FLA)	Single Phase	120V			1.5Hp/20A			2Hp/24A			2Hp/24A			3Hp/34A		
		240/277V			3Hp/17A			3Hp/17A			5Hp/28A			7.5Hp/40A			
IEC 60947-1 IEC 60947-4-1 AC 7a, AC 8a	Rated current (A)		220V			20			25			30			40		
		380V			20			25			30			40			
	Resistance Load (RES) A		32			35			40			50					
Weight (kg)			0.23	0.23	0.3	0.23	0.23	0.3	0.23	0.23	0.3	0.23	0.23	0.3			

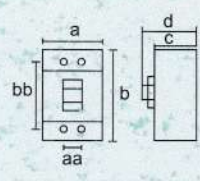
Note : 1. DPA—1 Pole, 1+ SHUNT Pole and 2 Pole standard type with Top Cover without anti dust cover.

Catalogue number	
Photos	
Number of poles	
Terminal	
Rated Insulation Voltage (UI)	
Operation Voltage (Ue)	
Duty thermal current (Ith)	
AIR-CONDITIONING & REFRIGERATION INSTITUTE Standard 780/790	Full load amps (FLA)
	Locked rotor amps (LRA)
	Single phase
	Resistance Load (RES) A
UL 508	Full Load current (FLA)
	Rated current (A)
IEC 60947-1 IEC 60947-4-1 AC 7a, AC 8a	Rated current (A)
	Resistance Load (RES) A
	Weight (kg)

Notes : 1. DPA—1 Pole, 1+ SHUNT Pole and 2 Pole standard type with Top Cover without anti dust cover.

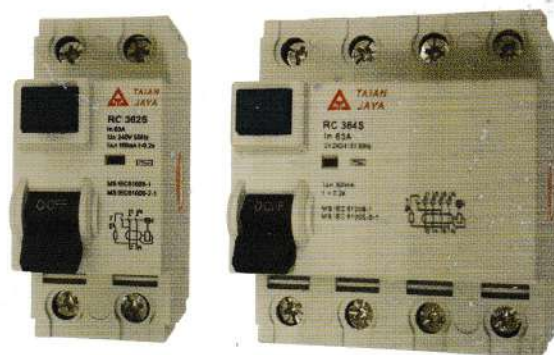
TJ Series Molded Case Circuit Breakers (MCCB)

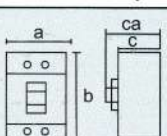
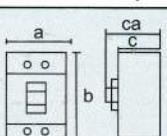


Frame size (AF)		63	100	225	400	630	800	1250	1600
Type		TJ-63L	TJ-100L	TJ-225L	TJ-400L	TJ-630M	TJ-800M	TJ-1250M	TJ-1600M
Number of Poles		3*/4	3*/4	3*/4	3*/4	3*/4	3*	3	3
Rated current (A) At ambient temperature 40		6, 10, 16, 20, 25, 32, 40, 50, 63	10, 16, 20, 25, 32, 40, 50, 63, 80, 100	125, 160, 180, 200, 225	250, 315, 350, 400	500, 630	700, 800	1000, 1250	1600
Rated insulation voltage (V)		500	800	800	800	800	800	800	800
Rated breaking capacity (kA)									
GB 14048.2 IEC 60947-2 EN 60947-2	AC 400V	15/10	15/10	30/25	35/25	50/35	50/35	85/43	100/50
	AC 230V	22/15	25/15	42/35	50/35	85/60	85/60	100/50	125/63
Dimensions (mm)									
	a	76	92	107	150	182	210	210	210
	b	135	150	165	257	270	280	330	330
	c	74	68	86	105	110	106	138	138
	d	92	86	110	115	160	145	190	190
	aa	25	30	35	44	58	70	-	-
	bb	117	129	126	194	200	243	-	-
Weight (kg)									
Features									
Automatic tripping device				Fixed-thermal and fixed-magnetic					
Trip button		•	•	•	•	•	•		
ON/OFF indicator									
Connections									
Connections		Terminal screw				Busbar			
Accessories (option)									
Internally mounted	Shunt trip SHT	Right	Right	Right	Left	Left	Left	Left	Left
	Under voltage trip UVT	Left	Left	Left	Left	Left	Left	Left	Left
	Auxiliary switch AUX	Left Right	Left Right	Left Right	Right	Right	Right	Right	Right
	Alarm switch ALT	Left Right	Left Right	Left Right	Right	Right	Right	Right	Right
	Alarm+Auxiliary switch ALT + AUX	Left Right	Left Right	Left Right	Right	Right	Right	Right	Right
Externally mounted	Electrical operation mechanics CD	•	•	•	•	•	•	•	•
	Handles CS	•	•	•	•	•	•	•	•
	Extension handle EHA	-	-	-	-	•	•	•	•
	Terminal cover XPR	-	-	-	-	-	-	-	-
	Interpole barrier TQQ	•	•	•	•	•	•	•	•
	Attached flat bar TBB	-	-	•	•	•	•	•	•
Operation performance	ON	1500	1500	1000	1000	1000	1000	1000	1000
	OFF	8500	8500	7000	4000	4000	4000	4000	4000

*: Special Request

TJ Series Residual Current Circuit Breakers (RCCB)

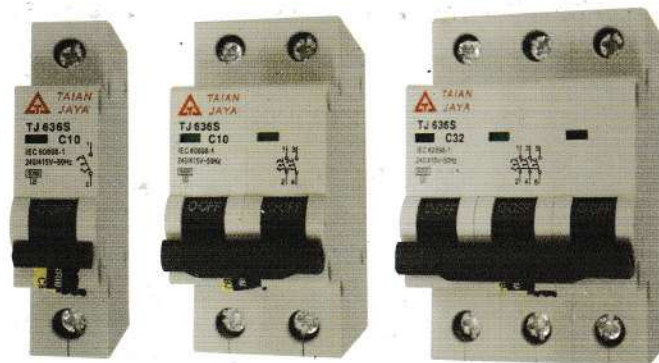


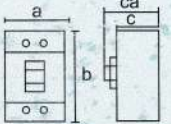
	RCCB				
Frame Size(AF)	63				
Type	RC - 362		RC - 364		
Number of poles	2	2	4	4	
Ambient temperature	40°C				
Rated Voltage (V)AC	240	240	240/415	240/415	
Leakage Acting current	10mA/30mA	100mA	10mA/30mA	100mA	
Rated Current (A)					
	1A	-	-	-	-
	2A	-	-	-	-
	3A	-	-	-	-
	6A	-	-	-	-
	10A	-	-	-	-
	16A	-	-	-	-
	20A	-	-	-	-
	25A	●	●	●	●
	32A	●	●	●	●
	40A	●	●	●	●
	50A	-	-	-	-
	63A	●	●	●	●
Dimension (mm)					
	a	36		72	
	b	82			
	c	50			
	ca	75			
Automatic tripping device	Fixed-Thermal and Fixed magnetic				
Mount	On 35mm DIN rail				
Weight (kg)	0.2	0.2	0.35	0.35	
Connections	Terminal screw				

Note : ● : Available - : Not Available

Remark : This product is designed specifically for South East Asia

TJ Series Miniature Circuit Breakers (MCB)

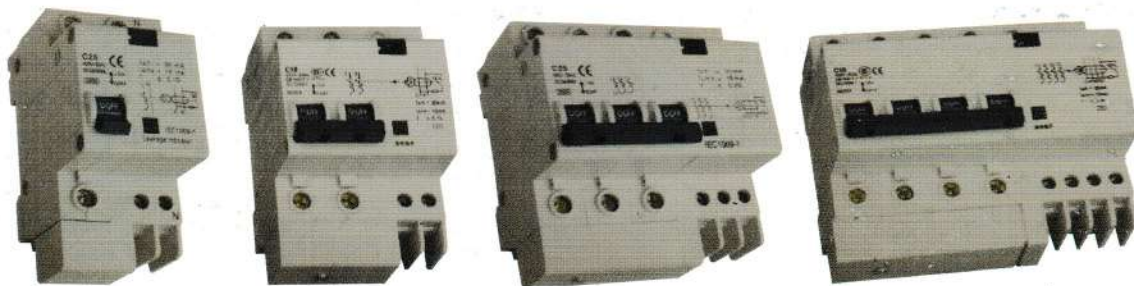


		MCB 6kA			MCB 10kA		
Frame Size(AF)		63			63		
Type		TJ63105			TJ63106		
		"c" Curve			"c" Curve		
Number of poles		1	2	3	1	2	3
Ambient temperature		40°C			40°C		
Rated Voltage (V)AC		240/415	240/415	240/415	240/415	240/415	240/415
Rated Breaking Capacity (kA)							
IEC 60947-2 Icu	AC 415V	6kA	6kA	6kA	10kA	10kA	10kA
	AC 240V	6kA	6kA	6kA	10kA	10kA	10kA
Rated Current (A)							
	1A	●	●	●	●	●	●
	2A	●	●	●	●	●	●
	3A	●	●	●	●	●	●
	6A	●	●	●	●	●	●
	10A	●	●	●	●	●	●
	16A	●	●	●	●	●	●
	20A	●	●	●	●	●	●
	25A	●	●	●	●	●	●
	32A	●	●	●	●	●	●
	40A	●	●	●	●	●	●
	50A	●	●	●	●	●	●
	63A	●	●	●	●	●	●
Dimension (mm)							
	a	18	36	54	16	36	54
	b	82			82		
	c	50			50		
	ca	75			75		
Automatic tripping device		Fixed Thermal and Fixed magnetic			Fixed Thermal and Fixed magnetic		
Mount		On 35mm DIN rail			On 35mm DIN rail		
Weight (kg)		0.1	0.2	0.3	0.1	0.2	0.3
Connections		Terminal screw			Terminal screw		

Note : ● : Available - : Not Available

Remark : This product is designed specifically for South East Asia

TJ Series Residual Current Operated Circuit Breakers With Over-current Protection (RCBO)



Main Technical Parameter

Frame Size (AF)	RCBO-63	
Pole	1P+N, 2P	3P, 3P+N, 4P
Rated current (A)	6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	240	415
Rated short circuit breaking capacity I _{cn} (kA)	6-32A : 6 / 40-63: 4.5	
Rated residual making/breaking capacity I _m (A)	2000	
Rated residual action current I _n (A)	0.03, 0.05, 0.1, 0.3	
Rated residual non-action current I _{no} (A)	0.5I _n	

Applicable Conducting Wire

Rated current (A)	1-6A	10A	16, 20A	25A	32A	40, 50A	63A
Norminal cross section of wire mm	1	1.5	2.5	4	6	10	16

Residual Current Breaking Time

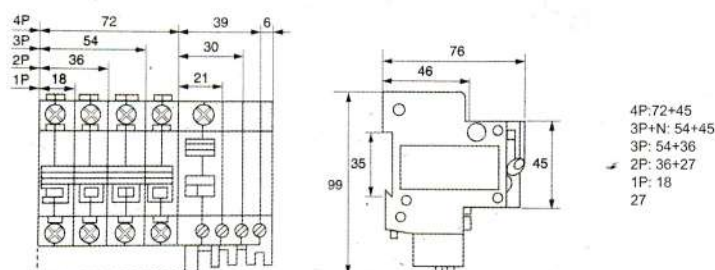
I _n (A)	I _{Δn} (A)	Breaking time(s) when equals to rating following					I _{Δt} [°]
6-63	0.03, 0.05, 0.1, 0.3	0.1	0.06	0.04	5, 10, 20, 50, 100, 200, 500 [°] (A)		0.04

The Over-current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2°C	Cold position	1.13I _n	t > 1h	Non-release	-
	Carried out immediately after previous test	1.45I _n	t < 1h	Release	-
	Cold position	2.55I _n	1s < t < 60s (I _n < 32A)	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55I _n	1s < t < 120s (I _n > 32A)	Release	
-5~+40°C	Cold position	3I _n	t > 0.1s	Non-release	Type B
	Cold position	5I _n	t < 0.1s	Release	Type B
	Cold position	5I _n	t > 0.1s	Non-release	Type C
	Cold position	10I _n	t < 0.1s	Release	Type C
	Cold position	10I _n	t > 0.1s	Non-release	Type D
	Cold position	20I _n	t < 0.1s	Release	Type D

TJ-RCBO-63 is applicable to a line of AC 50/60Hz, rated voltage 240V for single pole two-wire, 2-pole or 415V for 3-pole, 3-pole 4-wire, 4-pole and rated current up to 40A. It can protect the line and motor from overload and short circuit. It can also be used for infrequent line conversion and infrequent motor start. It conforms with the standards of IEC61009.

Dimension

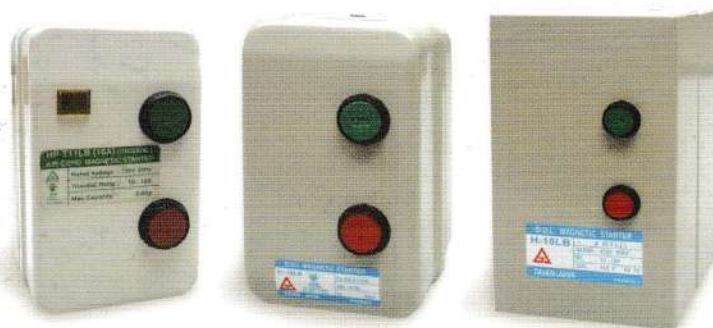


TJ Series

Direct On Line

Magnetic Starters

(DOL Magnetic Starters)



RATED CAPACITY AC 3						STEEL ENCLOSURE	ABS ENCLOSURE	IP-66 ABS ENCLOSURE
1 Ø 240V		T.O.R. RATED AMPS	3 Ø 415V		T.O.R. RATED AMPS	TYPE	TYPE	TYPE
HP	KW		HP	KW				
1/4	0.18	3	1/4	0.18		H-11LB	HP-11LB	HKFB-16LB
1/2	0.37	4	1/2	0.37				
3/4	0.55	5	3/4	0.55				
1	0.75	7	1	0.75				
-	-	-	1.5-2	1.5				
-	-	-	3	2.2				
-	-	-	4	3				
-	-	-	5	3.7		H-16LB	HP-16LB	HKFB-16LB
1.5	1.1	10	-	-	-			
2	1.5	13	-	-	-	H-16LB	HP-16LB	HKFB-16LB
-	-	-	7.5	5.5	13	H-16LB	HP-16LB	HKFB-16LB
3	2.2	15	10	7.5	15	H-18LB	-	-
-	-	-	15	11	20	H-20LB	-	-
5	3.7	26	20	15	26	H-25LB	-	-
2	1.5	13					HP-T 11LB	
2.5	2.2	15					HP-T 16LB	

TJ Series

Direct On Line

Magnetic Starters

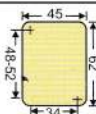
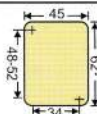
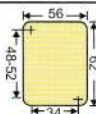
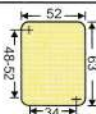
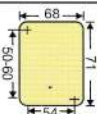
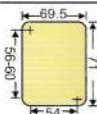
(DOL Magnetic Starters)



Combination Tables

	MOTOR CAPACITY	KW	0.18	0.37	0.55	0.75	1.1	1.5	2.2	3	3.7	5.5	7.5	11	15	18.5	22
		HP	1/4	1/2	3/4	1	1.5	2	3	4	5	7.5	10	15	20	25	30
SINGLE PHASE	MOTOR FULL LOAD CURRENT	A	2.3	4.1	5	6.75	9.5	11.3	14.5	-	24.5						
	MAGNETIC CONTACTOR (MC)	C-	11L	11L	11L	11L	16L	16L	18L	-	25L						
220V 50-60 HZ	THERMAL OVERLOAD RELAY (TOR)	RH-	10	10	10	10	10	10	18	-	18						
	RATED OVERLOAD CURRENT	A	3	4	5	7	10	13	15	-	26						
	MOLDED CASE CIRCUIT BREAKER (MCCB)										50S						
			30S	30S	30S	30S	30S	30S	30S	-	50E						
	MCCB RATED CURRENT (AMPERE)	A	15	15	15	15	15	20	20	-	40						
THREE PHASE	MOTOR FULL LOAD CURRENT	A	0.7	1.2	1.6	2	3	3.9	5.7	7.5	9.1	13	16.8	24.3	31.5	39	46.2
	MAGNETIC CONTACTOR (MC)	C-	11L	11L	11L	11L	11L	11L	11L	11L	11L	16L	18L	20L	25L	35L	35L
380V 50-60 HZ	THERMAL OVERLOAD RELAY (TOR)	RH-	10	10	10	10	10	10	10	10	10	18	18	18	35	35	35
	RATED OVERLOAD CURRENT	A	0.8	1.2	1.7	2.2	3	4	5	7	7	15	15	26	30	42	42
	MOLDED CASE CIRCUIT BREAKER (MCCB)												50S	50S	100S	100S	100S
			30S	30S	30S	30S	30S	30S	30S	30S	30S	30S	50E	50E	100E	100E	100E
	MCCB RATED CURRENT (AMPERE)	A	15	15	15	15	15	15	15	20	20	38	48	58	75	75	75
THREE PHASE	MOTOR FULL LOAD CURRENT	A	0.65	1.0	1.4	1.8	2.6	3.4	4.9	6.5	7.6	11.2	14.5	21	27	34	40
	MAGNETIC CONTACTOR (MC)	C-	11L	11L	11L	11L	11L	11L	11L	11L	11L	16L	18L	20L	25L	35L	35L
440V 50-60 HZ	THERMAL OVERLOAD RELAY (TOR)	RH-	10	10	10	10	10	10	10	10	10	18	18	18	35	35	35
	RATED OVERLOAD CURRENT	A	0.55	1.2	1.2	1.7	3	3	5	7	7	13	15	20	26	30	42
	MOLDED CASE CIRCUIT BREAKER (MCCB)												50S	50S	50S	100S	100S
			30S	30S	30S	30S	30S	30S	30S	30S	30S	30S	50E	50E	50E	100E	100E
	MCCB RATED CURRENT (AMPERE)	A	15	15	15	15	15	15	15	20	20	30	40	40	75	60	75

A.C MAGNETIC CONTACTORS

COMPLYING WITH BS-5424 APPROVAL SIRIM CERTIFIED BS5424 PT1: 19777 JBE: (IP) KT/4/760 JKR: (PM) 5/1/4-11			 SIRIM BS 5424 PP 004102																																																																																			
CATALOGUE NUMBER			C-11L		C-16L		C-16L1		C-16L2		C-18L		C-20L																																																																									
GENERAL TECHNICAL DATA	RATERD INSULATION VOLTAGE		660																																																																																			
	CONTINUOUS CURRENT 1th:(A)		20		26				30		35		40																																																																									
	AUX. CONTACTS		1N/0 OR 1N/C		1N/0 OR 1N/C		1N/0 + 1N/C, 2N/0, OR 2N/C		1N/0 + 1N/C, OR 2N/0		1N/0 + 1N/C, OR 2N/0		2N/0 + 2N/C																																																																									
	ELECTRICAL LIFE (UNIT: MILLION OPERATIONS)		1																																																																																			
	MECHANICAL LIFE (UNIT: MILLION OPERATIONS)		5																																																																																			
	APPROX. WEIGHT (KGS)		0.3		0.3		0.35		0.3		0.45		0.75																																																																									
RATED OPERATIONAL CURRENT (A) AC 3	SINGLE PHASE	110V	8.5		14.5				20																																																																													
		220V	8		14				17																																																																													
	THREE PHASE	220V	10		16				24																																																																													
		440V	9		12				15		21																																																																											
		550V	7		10				12		17																																																																											
RATED CAPACITY KW (HP) AC 3	SINGLE PHASE	110V ~ 120V	0.4 (0.5)		0.75 (1)				1.1 (1.5)																																																																													
		220V ~ 240V	0.75 (1)		1.5 (2)				2.2 (3)																																																																													
	THREE PHASE	220V ~ 240V	2.2 (3)		3.7 (5)				5.5 (7.5)																																																																													
		380V ~ 440V	4 (5.5)		5.5 (7.5)				7.5 (10)		11 (15)																																																																											
		500V ~ 550V	4 (5.5)		5.5 (7.5)				7.5 (10)		11 (15)																																																																											
ACCESSORIES ADDABLE	DIN RAIL ADAPTOR		CD-16										CD-18		CD-25																																																																							
	MECHANICAL INTERLOCK SET		-						L-16		-		L-65																																																																									
	AUX. CONTACT BLOCK		CA-22 CA-31 CA-40		CA-22 CA-31 CA-40		-		CA-422 CA-431		CA-22 CA-31 CA-40																																																																											
	SURGE ABSORBER		CS-10										CS-20																																																																									
APPROXIMATE DIMENSIONS (mm)																																																																																						
H: HEIGHT			H: 73														H: 73														H: 70														H: 80														H: 88														H: 112													

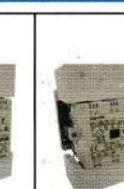
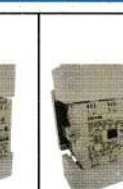
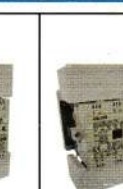
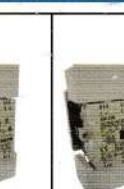
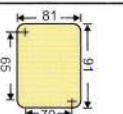
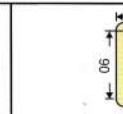
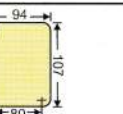
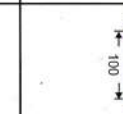
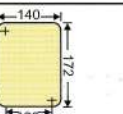
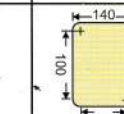
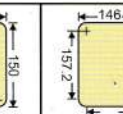
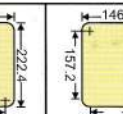
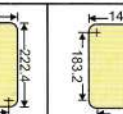
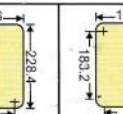
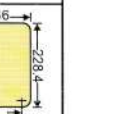
THERMAL OVERLOAD RELAYS

CATALOGUE NUMBER	 			
	RH-10E RH-10EB/C	RH-18	RH-18/M	RH-18/MP
NUMBER OF HEATER ELEMENT	2 poles	2 poles	3 poles	
FEATURES	OVERLOAD PROTECTION	OVERLOAD PROTECTION		
RATED CURRENT	0.37, 0.55, 0.8, 1.2, 1.7 2.2, 3, 4, 5, 7, 10, 13, 15	15, 20, 26	0.37, 0.55, 0.8, 1.2, 1.7, 2.2, 3, 4, 5, 7, 10, 15, 20, 26	
ADJUSTABLE RANGE	AROUND 80% ~ 120%			
RESET FUNCTIONS	MANUAL & AUTO RESET			
AUX. CONTACTS	1 N/C	1 CHANGEOVER CONTACTS		
APPLICABLE CONTACTORS	C-11L, 16L ₁ , C-16L ₂	C-16L, 18L, C-20L, C-25L, C-35L		

Specifications and availability subject to changes

L Series

CN Series

										
C-25L	C-35L	C-50L	C-65L	C-80G	C-100L	CN-125	CN-150	CN-180	CN-220	CN-300
50	65	80	100	100	150	150	200	240	260	350
						2N/0 + 2N/C	2N/0 + 2N/C	2N/0 + 2N/C	2N/0 + 2N/C	2N/0 + 2N/C
				0.5	1			1		
	1.2			3.0		2.2	4.1		6.7	6.7
24	-									
28	-									
30	44	58	68	100	110					
27	40	52	65	90	105					
22	32	41	52	72	85					
1.5 (2)	-									
3.7 (5)	-									
7.5 (10)	11(15)	15 (20)	19 (25)	25 (35)	30 (40)	40 (54)	45 (60)	55 (75)	65 (85)	90 (120)
15 (20)	22 (30)	30 (40)	37 (50)	50 (70)	60 (80)	75 (100)	80 (110)	95 (125)	120 (160)	160 (220)
15 (20)	22 (30)	30 (40)	37 (50)	50 (70)	60 (80)	75 (100)	80 (110)	110 (136)	125 (170)	160 (220)
CD-35		-								
				L-200						
				-						
				-						
										
H: 117	H: 117			H: 139.5						

															
RH-35		RH-35M		RH-50		RH-50/M		RH-65		RH-65/M		RH-80		RH-80/M	
2 poles		3 poles		2 poles		3 poles		2 poles		3 poles		2 poles		3 poles	
OVERLOAD PROTECTION				OVERLOAD PROTECTION				OVERLOAD PROTECTION				OVERLOAD PROTECTION			
20, 26, 30, 42				42, 55				42, 55, 68				68, 80		68, 80, 105	
C-35L, C-50L				C-50L, C-65L				C-65L, C-80G				C-80G, C-100L			