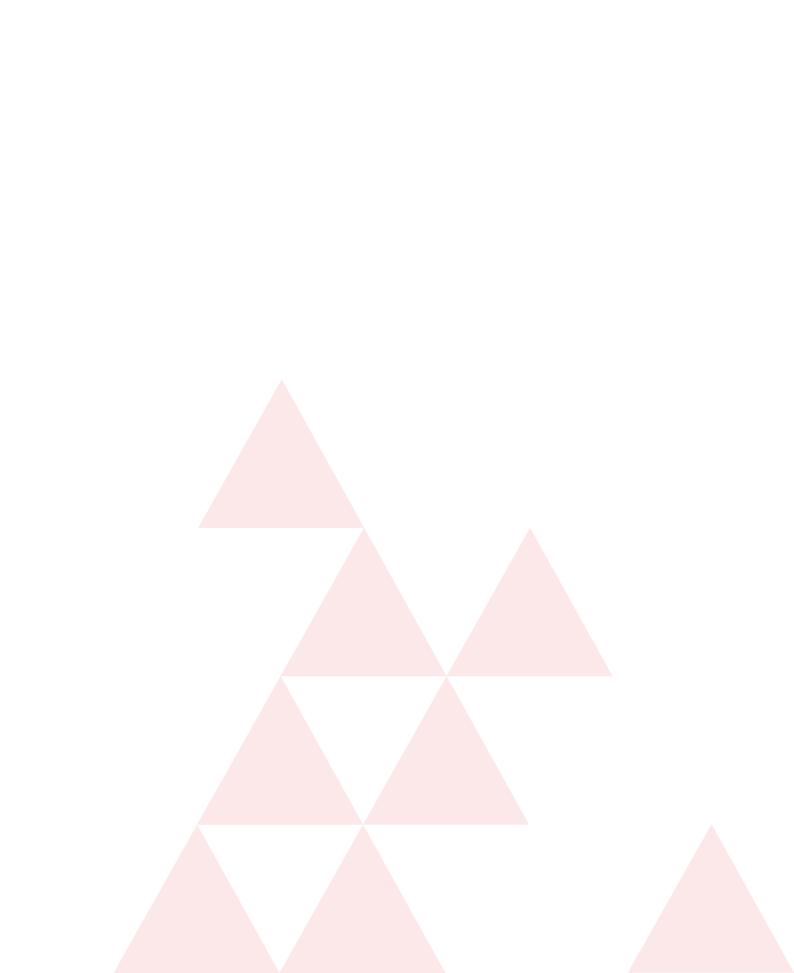


**POWER DEVICES CATALOGUE** 





### **Company Profile**

Taian-Jaya Electric was established since year 1988 with a total investment of over 1 Million. Our company is located in Shah Alam, Malaysia and we are proud to be associated with TECO Group of companies. We had been servicing the Malaysia and International market with our quality electrical products for uses in the residential, commercial and industrial needs. Taian-Jaya Electric emphasised on high Quality Control Management System according to ISO9001. Our quality control management system was first used in the manufacturing of our D.O.L Starter and we had over 25 years of experienced in the manufacturing fields.

Taian-Jaya Electric been an expert manufacturer in electrical products and with vast experienced in the international market, had since expanded our chain of electrical products supply for AC/DC Magnetic Contactors, Thermal Overload Relays, Molded Case Circuit Breakers, Residual Current Circuit Breakers, Miniature Circuit Breakers and others.

Supported by effective marketing our sales networking is now throughout Asia, South-East Asia and the Middle-East. Recently we had also expanded our business to Hong Kong, Taiwan, Indonesia, Thailand, Myammar, Vietnam, Bangladesh, Iraq, Pakistan and Sri Lanka.

### **Our Company Quality Policy**

" SATISFYING CUSTOMERS NEEDS " Striving to satisfy our customers by providing suitable products and good services throughout every staff and with the concept of "THE NEXT PROCESS IS OUR CUSTOMER".

Takes pride in the performance of Total Quality Assurance.

### **Our Products**

We are the manufacturer of:

- AC Magnetic Contactor
- Reversing Magnetic Contactor
- Thermal Overload Relay
- Auxiliary Contact Block
- Direct Online Motor Starter
- Star Delta Starter

- Miniature Circuit Breakers
- Residual Current Circuit Breakers
- Molded Case Circuit Breakers
- Safety Switch
- Distribution Board
- Isolator Switch

### **Product Certification**

Our company and products are certificated with ISO 9001, SIRIM (Malaysia Standard and Quality Management System) and CB scheme, which complied to MS IEC 60947-4-1: 2005 (for Starter), MS IEC 60947-4-1: 1996 (for Contactor), MS IEC 60898-1: 2003 (for MCB), MS IEC 61008-2-1: 2003 (for RCCB) and MS IEC 60947-2 (for MCCB) and also comply with the standard of Energy Commission and Public Works Department of Malaysia as well.



# TJ Series Molded Case Circuit Breakers (MCCB)



Fram	e size ( AF )		6	3	100		225	400	630	800	1250	1600
Туре			TJ-	63L	TJ-100L		TJ-225L	TJ-400L	TJ-630M	TJ-800M	TJ-1250M	TJ-1600M
Numb	per of Poles		3'	*/4	3*/ 4		3*/ 4	3*/ 4	3*/ 4	3*	3	3
Rateo At am	Rated current ( A ) At ambient temperature 40			16, 20, , 40, 50, 33	10, 16, 20, 2 32, 40, 50, 6 80, 100		25, 160, 180, 200, 225	250, 315, 350, 400	500, 630	700, 800	1000, 1250	1600
Rateo	insulation voltage (V)		5	00	800		800	800	800	800	800	800
Rated	d breaking capacity (kA)											
	4048.2	AC 400V	15/	/10	15/10		30/25	35/25	50/35	50/35	85/43	100/50
	60947-2 0947-2	AC 230V	22/	/15	25/15		42/35	50/35	85/60	85/60	100/50	125/63
Dime	nsions (mm)				10				0		6 a	
	_ d	а	76	6	92		107	150	182	210	210	210
1		b	1:	35	150		165	257	270	280	330	330
. Th	<u> </u>	с	74	4	68		86	105	110	106	138	138
bb		d	92	2	86		110	115	160	145	190	190
바		aa	2!	5	30		35	44	58	70	-	-
	aa	bb	11	17	129		126	194	200	243	-	-
Weigh	it (kg)				Ĩ							
Featu	res											
Autom	Automatic tripping device					Fix	ked-thermal ar	nd fixed-magnetic				
Trip b	utton			•	•		•	•	•	•		
ON/O	FF indicator	2)			19				1			
Conne	ections											
Conne	ections				Terminal screv	v				Busbar		
Acces	sories ( option )											
p	Shunt trip	SHT	Ri	ght	Right		Right	Left	Left	Left	Left	Left
Internally mounted	Under voltage trip	UVT	L	eft	Left		Left	Left	Left	Left	Left	Left
_ ™	Auxiliary switch	AUX	Left	Right	Left Righ	nt Le	eft Right	Right	Right	Right	Right	Right
ernal	Alarm switch	ALT	Left	Right	Left Righ	nt Le	eft Right	Right	Right	Right	Right	Right
Inte	Alarm+Auxiliary switch	ALT + AUX	Left	Right	Left Righ	nt Le	eft Right	Right	Right	Right	Right	Right
	Electrical operation me	chanics CD	•	•	•		•	•	•	•	•	•
Externally mounted	Handles	CS		•	•		•	•	٠	•	•	•
nom	Extension handle	EHA		-	-		-	-	•	•	•	•
nally	Terminal cover	XPR		-	-		-	-	-	-	-	-
ter	Interpole barrier	TQQ	•	•	•		•	•	٠	•	•	•
ш	Attached flat bar	ТВВ		-	-		•	•	٠	•	•	•
							1000	1000	1000	4000	1000	4000
Operation	ON		15	600	1500		1000	1000	1000	1000	1000	1000

\* : Special Request



# *TJ Series Residual Current Circuit Breakers (RCCB)*



			RCCB									
Frame Size(AF)	71	63										
Туре		RC - 362 RC - 364										
Number of poles	5	2	2	4	4							
Ambient tempera	ature		40	0°C								
Rated Voltage (V	)AC	240	240	240/415	240/415							
Leakage Acting	current	10mA/30mA	100mA	10mA/30mA	100mA							
Rated Current (A						1						
	1A	-	-	-	-							
	2A	-	-	-	-							
	3A	-	-	-	-							
	6A	-	-	-	-							
	10A	-	-	-	-							
	16A	-	-	-	-							
	20A	-	-	-	-							
	25A	•	•	•	•							
	32A	•	•	•	•							
	40A	•	•	•	•							
	50A	-	-	-	-							
	63A	•	•	•	•							
Dimension (mm)												
	а	3		7	2							
	b			2								
b f	С		5	0								
	са			5								
Automatic trippin	ng device	F		d Fixed magnetic								
Mount			On 35mm	r								
Weight (kg)		0.2	0.2	0.35	0.35							
Connections			Termina	al 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				
Туре			TJ63105		TJ63106				
			"c" Curve			"c" Curve			
Number of pole	S	1	2	3	1	2	3		
Ambient temper	rature		40°C			40°C			
Rated Voltage (	V)AC	240/415 240/415 240/415			240/415	240/415	240/415		
Rated Breaking Cap	oacity (kA)	с	764						
IEC 60947-2	AC 415V	6kA	6kA	6kA	10kA	10kA	10kA		
lcu	AC 240V	6kA	6kA	6kA	10kA	10kA	10kA		
Rated Current (A	()								
	1A	•	•	•	•	•	•		
	2A	•	•	•	•	•	•		
	3A	•	•	•	•	•	•		
	6A	•	•	•	•	•	•		
	10A	•	•	•	•	•	•		
	16A	•	•	•	•	٠	•		
	20A	•	•	•	•	•	•		
	25A	•	•	•	•	٠	•		
	32A	•	•	•	•	٠	•		
	40A	•	•	•	•	•	•		
	50A	•	•	•	•	٠	•		
	63A	•	•	•	•	٠	•		
Dimension (mm)									
	а	18	36	54	16	36	54		
	b		82			82			
	С		50			50			
	са		75			75			
Automatic tripping	device		al and Fixed m		Fixed Then	nal and Fixed r	nagnetic		
Mount		O	n 35mm DIN r	ail	On 35mm DIN rail				
Weight (kg)		0.1	0.2	0.3	0.1 0.2 0.3				
Connections			Terminal screw	/		Terminal screw	1		

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 Technica	al Parameter									
	Frame Size (AF)						RCBC	<b>)-63</b>		
	Pole			1P+N, 2P 3P, 3P+N, 4P						4P
	Rated current (A)			(	6,10	,16,20,2	5,32,40,	50,63		
			240				415			
Rated sl	nort circuit breaking capacity	lcn(kA)				6-	32A :6	/ 40-63:	4.5	
Rated resi	idual making/breaking capaci	ty I m(A)					20	000		
Rate	ed residual action current I n	(A)					0.03,0.0	05,0.1,0.3	3	
Rated	residual non-action current l	no(A)						51 n		
pplicable Co	nducting Wire							-		
	Rated current (A)		1-6A	10A	16,2	0A	25A	32A	40,50A	63A
Normina	al cross section of wire mm		1	1.5	2.		4	6	10	16
esidual Curr	ent Breaking Time									
In	lan		Breakin	g time(s)	when e	equa	ls to rat	ing follov	ving	
(A)	(A)	l∆n	2I∆r	• · · ·	l∆n	· · ·			00,500°(A)	l∆t⁵
6-63	0.03, 0.05, 0.1, 0.3	0.1	0.06	3 0	.04			0.04	, , ,	0.04
he Over-curr	ent Protection Propert	y								
Ambient temperature	Initial status	Test currer		st time		kpec resu			Note	
	Cold position	1.13	n t	≥1h	Nor	n-rel	ease		-	
30±2°C	Carried out immediately after previous test	1.45	n t	<1h	R	elea	se		-	
00-20	Cold position			<t<60s ≪32A)</t<60s 	Releas		ease Curre		nt smoothly	rises to
	Cold position	2.551		t<120s >32A)	R	elea	se	speci	fied value w	ithin 5s/
	Cold position	3ln	t)	≥0.1s	Nor	n-rel	ease		Туре В	
Cold position		5ln	t-	<0.1s	R	lelea	ise		Туре В	
-5~+40°C	Cold position	5ln		≥0.1s	Nor	n-rel	ease		Туре С	
	Cold position	10lr		<0.1s		elea			Туре С	
	Cold position	10ln	t	≥0.1s	Nor	n-rel	ease	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.

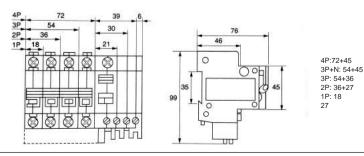
t<0.1s

Release

20ln

#### Dimension

Cold position



Type D



# TJ Series Direct On Line Magnetic Starters (DOL Magnetic Starters)



	RATED CAPACITY AC 3					STEEL	ABS	IP-66 ABS	
1 Ø	240V	T.O.R.	3 Ø 4	15V	T.O.R.	ENCLOSURE	ENCLOSURE	ENCLOSURE	
HP	ĸw	RATED AMPS	HP	ĸw	RATED AMPS	TYPE	ТҮРЕ	TYPE	
1/4	0.18	3	1/4	0.18					
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		H-11LB	HP-11LB	HKFB-16LB	
-	-	-	1.5-2	1.5		H-IILD	HP-IILD		
-	-	-	3	2.2					
-	-	-	4	3					
-	-	-	5	3.7					
1.5	1.1	10	-	-	-	H-16LB	HP-16LB	HKFB-16LB	
2	1.5	13	-	-	-	HHOLD	HF-TOLD		
-	-	-	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
	MOTOR CAPACITY	HP	1/4	1/2	3/4	1	1.5	2	3	4	5	7.5	10	15	20	25	30
SINGLE	MOTOR FULL LOAD CURRENT	A	2.3	4.1	5	6.75	9.5	11.3	14.5	-	24.5						
PHASE	MAGNETIC CONTACTOR (MC)	C-	11L	11L	11L	11L	16L	16L	18L	-	25L						
	THERMAL OVERLOAD RELAY (TOR)	RH-	10	10	10	10	10	10	18	-	18						
220V 50-60	RATED OVERLOAD CURRENT	A	3	4	5	7	10	13	15	÷	26						
HZ	MOLDED CASE CIRCUIT BREAKER (MCCB)		30S	30S	30S	30S	30S	30S	30S	-	50S 50E						
	MCCB RATED CURRENT (AMPERE)	A	15	15	15	15	15	20	20	-	40						
THREE	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
PHASE	MAGNETIC CONTACTOR (MC)	C-	11L	11L	11L	11L	11L	11L	11L	11L	11L	16L	18L	20L	25L	35L	35L
	THERMAL OVERLOAD RELAY (TOR)	RH-	10	10	10	10	10	10	10	10	10	18	18	18	35	35	35
380V 50-60	RATED OVERLOAD CURRENT	A	0.8	1.2	1.7	2.2	3	4	5	7	7	15	15	26	30	42	42
HZ	MOLDED CASE CIRCUIT BREAKER (MCCB)		30S	30S	30S	30S	30S	30S	30S	30S	30S	30S	50S 50E	50S 50E	100S 100E	100S 100E	100S 100E
	MCCB RATED CURRENT (AMPERE)	A	15	15	15	15	15	15	15	20	20	38	48	58	75	75	75
						5											
THREE	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
PHASE	MAGNETIC CONTACTOR (MC)	C-	11L	11L	11L	11L	11L	11L	11L	11L	11L	16L	18L	20L	25L	35L	35L
	THERMAL OVERLOAD RELAY (TOR)	RH-	10	10	10	10	10	10	10	10	10	18	18	18	35	35	35
440V	RATED OVERLOAD CURRENT	A	0 55	1.2	1.2	1.7	3	3	5	7	7	13	15	20	26	30	42
50-60 HZ	MOLDED CASE CIRCUIT BREAKER (MCCB)		30S	30S	30S	30S	30S	30S	30S	30S	30S	30S	50S 50E	50S 50E	50S 50E	100S 100E	100S 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 W BS-5424 APPROVAL SIR CERTIFIED BS5 JBE: (IP) KT/4/7 JKR: (PM) 5/1/4	RIM 5424 PT1: 760	: 19777 SIRIM BS 5424 PP 004102 CATALOGUE NUMBER	C-11L	C-16L	C-16L1	C-16L2	C-18L	C-20L
	RATERC	DINSULATION VOLTAGE	660					
	CONTIN	NUOUS CURRENT 1th:(A)	20	26		30	35	40
GENERAL	AUX.CC	ONTACTS	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
TECHNICAL DATA		RICAL LIFE MILLION OPERATIONS)	1					
		NICAL LIFE MILLION OPERATIONS)	5					
	APPRO	X.WEIGHT (KGS)	0.3	0.3	0.35	0.3	0.45	0.75
	SINGLE	110V	8.5	14.5			20	
RATED	PHASE	220V	8	14			17	
OPERATIONAL CURRENT		220V	10	16			24	
(A) AC 3	THREE PHASE	440V	9	12			15	21
		550V	7	10			12	17
	SINGLE	110V ~ 120V	0.4 (0.5)	0.75 (1)			1.1 (1.5)	
RATED	PHASE	220V ~ 240V	0.75 (1)	1.5 (2)			2.2 (3)	
CAPACITY KW (HP)		220V ~ 240V	2.2 (3)	3.7 (5)			5.5 (7.5)	
AC 3	THREE	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)
		DIN RAIL ADAPTOR	CD-16				CD-18	CD-25
		MECHANICAL INTERLOCK SET	-			L-16	×	L-65
ACCESSORIES AD	DABLE	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	2			CS-20	
APPROXIMATE	DIMENS	IONS (mm)	45 48-52 48-52 4-34 H:73	45 48-52 48-52 44+7 H:73	48-52 ± 48-52 ± H:70	48-52→ 48-52→ 48-52→ +34+ H:80	€80 50-60 ↓ 544 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 PROTECT	TION			
RATED CURRENT		0.8, 1.2, 1.7 7, 10, 13, 15	15, 20, 26	0.37, 0.55, 0.8, 1.2, 15, 20, 26	1.7, 2.2, 3, 4, 5, 7, 10,		
ADJUSTABLE RANGE	AROUND 8	0% ~ 120%					
RESET FUNCTIONS	MANUAL & AUTO RESET						
AUX. CONTACTS	1 N/C		1 CHANGEO	VER CONTACTS			
APPLICABLE CONTACTORS	C-11L, 16L	1, C-16L <sub>2</sub>	C-16L, 18L, C-20L, C-	25L, C-35L			
Specifications and availability subject to changes							

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
10000 M						100000	a manager a	No. of State		
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)	<b>6</b> -0.									
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						
				-						
2	t + + + + + + + + + + + + +	₹ 8 ±	94 → 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		40 172 20 H: 139.5		146 146 157 2 - V	146 146 157 2 - V	146 183 2	

RH-80 RH-80/M
les 3 poles
RLOAD PROTECTION
68, 80, 105

C-35L, C-50L	C-50L, C-65L	C-65L, C-80G	C-80G, C-100L

DEALER :

