TECO

Power Devices Catalogue

低壓開關產品

ISO 9001 BSMI ISO 14001 BSMI CE CB Scheme

CONTENTS

Company Profile

TECO Technology (Vietnam) Company was established since year 2006, which was located in Long Thanh, Dong Nai, Vietnam. TECO Technology (Vietnam) Company was approved by the Vietnam Government to invest in the establishment from TECO Electric & Machinery.

TECO Electric & Machinery was founded in 1956, initially in the motor production, has entered the heavy electric, electronic control, home appliances, information, communications, electronics and key components, infrastructure construction and financial investment in the core business areas of development.

TECO Electric & Machinery Company in 1968 with the American Company, General Electric and Japan Company,Yaskawa electromechanical technical cooperation, followed by cooperated with the U.S. Westinghouse, Japan's Hitachi, Sweden Ericsson, Mitsubishi, NEC, Deutsche Telekom, Germany's Siemens and other international electronic, electrical and communications group to establish business cooperation relationship. TECO Group currently has about 30 of affiliated companies at home and abroad, the cause of the territory has been expanded to Asia, the Americas and Europe, and distribution of the global staff of more than million people to become well-known, one of the world-class group.

TECO Technology (Vietnam) Company was division of the Electrical and Controller, which products manufacturing such as circuit breaker and low voltage power distribution equipment belonging to Group management and control. Division formerly known as Taian Electric, since its founding in 1969 to the October 2003 merger with TECO date, high voltage power distribution equipment, generator sets, power strips, inverter, programmable controller and servo controller products to meet customer the most basic electrical safety requirements, and provide a holistic automation services.

Years of hardwork, and TECO Electric & Machinery by heavy electric appliance field, to become a global high-tech enterprise, from manufacturing, marketing, service to the development, the establishment of an aspect of the world of international brand TECO. Teco Group abundant resources of integration comprehensive efficiency TECO Technology (Vietnam) Company will be established in Vietnam and its neighboring countries in Southeast Asia's production and sales base through continuous innovation and Houzhi R & D technology, to provide customer satisfaction as the guide of products and improve after-sales service, the progressive realization become Vietnam cum-low-voltage power distribution equipment in Southeast Asia, the renowned first-class brand manufacturers.

Our Products

- AC Magnetic Contactor
- Direct On Line Motor Starter
- Molded Case Circuit Breaker
- Intelligent Universal Circuit Breakers
- Thermal Overload Relay
- Residual Current Circuit Breaker
- Distribution Board

Marketing Channel

Product of TECO are widely distributed all over the Vietnam and Asia such as Bangladesh, Pakistan, Sri Lanka, Hong Kong, Taiwan, Malaysia, Myanmar, etc, for use in air-conditioner starter, switchboard panel, industrial motor starter, automation control, home appliances protection, etc.

Certificates

Certificates					
Catalogue number		TÜV	CNS	R41024	EC Declaration of Conformity
		Germany	TAIWAN		EC Declaration
			(TERTEC)	(BSMI)	
TO-50E	2P	●	—	●	●
TO-50EC	3P	●	—	●	●
TO-100EB	2P/3P	●	—	●	●
TO-125EB	2P/3P	—	—	●	●
TO-160EBE	3P	●	—	●	●
TO-250EB	2P/3P	—	—	●	●
TO-400EB	2P/3P	●	—	●	●
TO-630EB	3P	—	—	●	●
TO-800EB	3P	●	—	●	●
TO-125SB	3P	—	—	●	●
TO-125SC	3P/4P	—	—	●	●
TO-160SBE	3P	—	●	—	●
TO-160SC	3P/4P	—	●	—	●
TO-250SB	3P	—	●	—	●
TO-250SC	3P/4P	—	●	—	●
TO-400SB	2P/3P	—	●	—	●
TO-600SB	3P/4P	—	●	—	●
TO-800SB	3P/4P	—	●	—	●
TO-125H	3P/4P	—	●	—	●
TO-160H	3P/4P	—	●	—	●
TO-400H	3P/4P	—	●	—	●
TO-630H	3P/4P	—	●	—	●
TO-800H	3P/4P	—	●	—	●
TE-600	3P	—	●	—	●
TE-800	3P	—	●	—	—
TE-1000	3P	—	●	—	—
TE-1200	3P	—	●	—	—
TE-1600	3P	—	●	—	—
TLB-100E	3P	—	●	—	—
TLB-100L1	3P/4P	—	●	—	—
TLB-125E	3P	—	●	—	—
TLB-125S	3P/4P	—	●	—	—
TLB-250E	3P	—	—	●	—
TLB-250S	3P/4P	—	—	●	—
TLB-400S	3P	—	—	●	—

Certificates					
Catalogue number		CNS	R41024	EC Declaration of Conformity	CB Scheme
		TAIWAN		EC Declaration	CB Scheme
		(TERTEC)	(BSMI)		
TJ636S	1P/2P/3P/4P	—	—	●	●
TJ6310S	1P/2P/3P/4P	—	—	●	●

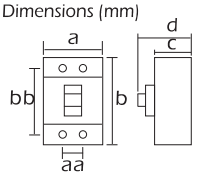
TO Series Economical Type

Frame size (AF)			50	50	100		125		160	250		400	
Type			TO—50E	TO—50EC	TO—100EB		TO—125EB		TO—160 EBE	TO—250EB		TO—400EB	
Number of poles			2	3	2	3	2	3	3	2	3	3	
Rated current(A) at ambient temperature 40℃			15 40 20 50 30	15 40 20 50 30	15 40 75 20 50 100 30 63		125		140 150 160	125 200 150 225 175 250		250 350 300 400	
Rated insulation voltage (V) CNS,IEC			AC 690										
Rated breaking capacity (kA)													
IEC 60947-2	AC 400V		2.5/1.3		15/7.5	15/10	22/11		30/25	30 / 15		35 / 25	
EN 60947-2	AC 230V		5/2.5		25/13	25/15	42/35		42/35	42 / 35		50 / 35	
Dimensions (mm)		a	50	75	50	75	60	90	90	105		140	
		b	130		130		155		155	165		260	
		c	60		68		68		68	68		103	
		d	79		87		86		86	86		130	
		aa	—	25	—	25	—	30	30	35		45	
		bb	111		111		132		132	126		214	
Weight (kg)			0.4	0.6	0.6	0.8	0.8	1.1	1.1	1.45	1.45	4.5	6
Features													
Automatic tripping device			Fixed-thermal and fixed-magnetic							Fixed-thermal		Fixed-thermal and adjustable magnetic	
Trip button			●										
ON / OFF Indicator			—									●	
Handle lock (OFF - POSITION)			—										
Connections			Terminal screw									Busbar	
Accessories (option)													
Internally mounted	Shunt trip	SHT	●③	●③	●③		●		●	●		●	
	Under voltage trip	UVT	—	—	—		—		—	—		—	
	Auxiliary switch	AUX	●③	●③	●③		●		●	●		●	
	Alarm switch	ALT	●③	●③	●③		●		●	●		●	
	Alarm + Auxiliary switch	AUX+ALT	●③	●③	●③		●		●	●		●	
Externally mounted	Electrical operation mechanics	CD	—	●④	—	●④	—	●④	—	●④		—	
	External operating handle	FH	—	●	—	●	—	—	—	—		●	
		FL	—	—	—	—	—	●	—	●		—	
		FG	—	●②	—	●②	—	●②	—	●⑤		—	
		TFJ	—	—	—		—		—	—		●④	
	Extension handle	EHA	—	—	—		—		—	—		—	
	Attached flat bar	TBB	—	—	—		—		●	●		●②	
	Interpole barrier	TQQ	●	●	●①		●①		●	●①		●①	
	Terminal cover	XPR	—	●	—	●	—	●	—	●		—	

Note： ● : Available — : Not Available ① : Standard Accessory ② : IP rating meets IP 42.
③ : Can be supplied separately. ④ : Supplied to order.

TO Series Standard Type

Frame size (AF)		125		160		250		400
Type		TO－125SB	TO－125SC	TO－160SBE	TO－160SC	TO－250SB	TO－250SC	TO－400SB
Number of poles		3	3*	3	3	3	3	3
Rated current(A) at ambient temperature 40℃		15 20 25 32 40 50 63 75 100 125		140 150 160	125 140 150 160	175 180 200	225 250	250 350 300 400
Rated insulation voltage (V) CNS,IEC		AC 690						
Rated breaking capacity (kA)								
IEC 60947-2	AC 400V	35/25	42/30	35/25	42/30	35/25	42/30	50/35
EN 60947-2	AC 230V	50/35	—	50/35	—	50/35	—	85/60
Dimensions (mm)	a	90	90 / 120	90	105 / 140	105	105 / 140	140 / 185
	b	155	155	155	165	165	165	260
	c	68	86	68	86	68	86	103
	d	86	104	86	104	86	104	130
	aa	30	30	30	35	35	35	45
	bb	132	132	132	126	126	126	214
Weight (kg)		1.1	1.4 / 1.7	1.1	1.8 / 2.3	1.45	1.8 / 2.3	4.5 / 6



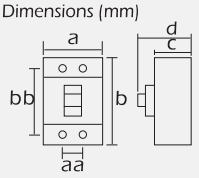
Features

Automatic tripping device		Fixed-thermal	Fixed-thermal and fixed-magnetic			Fixed-thermal and adjustable-magnetic
Trip button		●	●		●	●
ON / OFF Indicator		—	—		—	—
Accessories (option)						
Internally mounted	Shunt trip SHT	●	●		●	●
	Under voltage trip UVT	—	—		—	—
	Auxiliary switch AUX	●	●		●	●
	Alarm switch ALT	●	●		●	●
	Alarm + Auxiliary switch AUX+ALT	●	●		●	●
Externally mounted	Electrical operation mechanics CD	●④	—	●④	●④	—
	External operating handle FH	—	—	—	—	
	External operating handle FL	—	—	●	●	●
	External operating handle FG	—	—	●⑤	●⑤	—
	External operating handle TFJ	—	—	—	—	●④
	Extension handle EHA	—	—	—	—	●
	Attached flat bar TBB	—	●		●	●②
	Interpole barrier TQQ	●	●①		●①	●①
	Terminal cover XPR	●	—	●	●	—

Note : ● : Available — : Not available ① : Standard accessory ② : Built in
③ : Lock off attachment can be supplied with handle when ordered. ④ : Supplied to order. ⑤ : IP rating meets IP 42.
⊛ : Special on request

TO Series
- High Performance Type

Frame size (AF)		125	160	250	400
Type		TO—125H	TO—160H	TO—250H	TO—400H
Number of poles		3	3	3	3
Rated current(A) at ambient temperature 40℃		15 30 60 125 20 40 75 25 50 100	125 150 140 160	175 225 200 250	250 350 300 400
Rated insulation voltage (V) CNS,IEC		AC 690			
Rated breaking capacity (kA)					
IEC 60947-2	AC 400V	50/35	50/35	50/35	65/42
EN 60947-2	AC 230V	—	—	—	100/60
Dimensions (mm)	a	90 | 120	105 | 140	105 | 140	140
	b	155	165	165	260
	c	86	86	86	103
	d	104	104	104	130
	aa	30	35	35	45
	bb	132	126	126	214
Weight (kg)		1.4 | 1.7	1.8 | 2.3	1.8 | 2.3	5.6



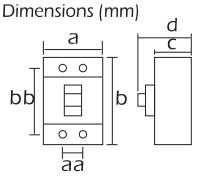
Features

Automatic tripping device		Fixed-thermal and fixed-magnetic			Fixed-thermal and adjustable-magnetic
Trip button		●	●	●	●
ON / OFF Indicator		—	—	—	●
Accessories (option)					
Internally mounted	Shunt trip SHT	●⑥	●⑥	●	●
	Under voltage trip UVT	—	—	—	—
	Auxiliary switch AUX	●⑥	●⑥	●	●
	Alarm switch ALT	●⑥	●⑥	●	●
	Alarm + Auxiliary switch AUX+ALT	●⑥	●⑥	●	●
	Electrical operation mechanics CD	●④	●④	—	—
Externally mounted	External operating handle FH	●	●	●	●
	External operating handle FL	—	—	—	—
	External operating handle FG	●⑤	●⑤	●⑤	—
	External operating handle TFJ	—	—	—	●④
	Extension handle EHA	—	—	—	—
	Attached flat bar TBB	—	—	●②	●②
	Interpole barrier TQQ	●①	●①	●①	●①
	Terminal cover XPR	—	—	—	—

te：● : Available — : Not available ① : Standard accessory ② : Built in
③ : Lock off attachment can be supplied with handle when ordered. ④ : Supplied to order.
⊛ : Special on request

TCB Series
- High Performance Type

Frame size (AF)	125	250	400	630	800
Type	**TCB 125H1/H3**	**TCB 250H1/H3**	**TCB 400H1/H3**	**TCB 630H1/H3**	**TCB800H1/H3**
Number of poles	3	3	3	3	3
Rated current(A) at ambient temperature 40℃	15, 20, 25, 30, 40, 50, 63, 75, 80, 100, 125	125, 150, 160, 175, 180, 200, 225, 250	250, 300 350, 400	500, 600	700, 800
Rated insulation voltage (V) CNS,IEC	AC 690V				
Rated breaking capacity (kA)					
IEC 60947-2 AC 400V	H1: 50/35 H3: 85/50				

Dimensions (mm)											
	a	90	120	105	140	140	184	210	280	210	280
	b	155		165		257		257		275	
	c	83		83		97.5		97.5		97.5	
	d	113		116		153		154		154	
	aa	30		35		43.5		70		70	
	bb	132		136		211		243		243	
Weight (kg)		1.3	1.7	1.7	2.3	4.2/4.7	5.3/5.9	7.4	10	9	12

Features

Automatic tripping device		Fixed-thermal and fixed-magnetic				
Trip button		●	●	●	●	●
ON / OFF Indicator		—	—	—	—	—

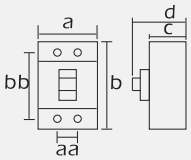
Accessories (option)

Internally mounted	Shunt trip	SHT	● (Right)	● (Right)	● (Right)	● (Right)	● (Right)
	Under voltage trip	UVT	● (Right)	● (Right)	● (Right)	● (Right)	● (Right)
	Auxiliary switch	AUX	● (Left) ● (Right)	● (Left)	● (Left) ● (Right)	● (Left) ● (Right)	● (Left) ● (Right)
	Alarm switch	ALT	● (Left) ● (Right)	● (Left)	● (Left)	● (Left)	● (Left)
	Alarm + Auxiliary switch	AUX+ALT	● (Left) ● (Right)	● (Left)	● (Left)	● (Left)	● (Left)
Externally mounted	Electrical operation mechanics	CD	●				
	Extension handle	EHA	●①		●	●	●
	Attached flat bar	TBB	—	●	● (H1)/ ● (H3) ①	●①	
	Interpole barrier	TQQ	●①				
	Terminal cover	XPR	—				

Note : ● : Available — : Not available ① : Standard accessory ② : Built in
③ : Lock off attachment can be supplied with handle when ordered. ④ : Supplied to order. ⑤ : IP rating meets IP 42.
⊛ : Special on request

TE Series electronic Type

Frame size (AF)			600	800	1000	1200	1600
Type			**TE—600**	**TE—800**	**TE—1000**	**TE—1200**	**TE—1600**
Number of poles			3	3	3	3	3
Rated current(A) at ambient temperature 40℃			Adjustable 300 400 600 350 500	Adjustable 400 500 700 450 600 800	Adjustable 500 700 900 600 800 1000	Adjustable 600 800 1200 700 1000	Adjustable 800 1000 1400 900 1200 1600
Rated insulation voltage (V) CNS,IEC			AC 690				
Rated breaking capacity (kA)							
IEC 60947-2	AC 400V		50／25		85／43		100／50
EN 60947-2	AC 230V		85／43		100／50		125／63
Dimensions (mm)		a	210		210		210
		b	275		370		370
		c	103		140		140
		d	145		191		191
		aa	70		70		70
		bb	243		338		338
Weight (kg)			10.70	11.20	24	24	27



Features

Automatic tripping device			Electronic				
Trip button			●				
ON / OFF Indicator			—				

Accessories (option)

Internally mounted	Shunt trip	SHT	●	●	●	●	●
	Under voltage trip	UVT	●	●	●	●	●
	Auxiliary switch	AUX	●	●	●	●	●
	Alarm switch	ALT	●	●	●	●	●
	Alarm + Auxiliary switch	AUX+ALT	●	●	●	●	●
	Electrical operation mechanics	CD	●④	●④	—	—	—
Externally mounted	External operating handle	FH	—	—	—	—	—
		FL	—	—	—	—	—
		FG	—	—	—	—	—
		TFJ	●④	●④	●④	●④	●④
	Extension handle	EHA	●	●	●①	●①	●①
	Attached flat bar	TBB	●②	●②	●②	●②	●②
	Interpole barrier	TQQ	●①	●①	●①	●①	●①
	Terminal cover	XPR	—	—	—	—	—

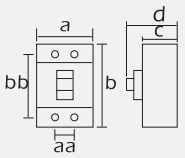
Note：● : Available — : Not available ① : Standard accessory ② : Built in
③ : Lock off attachment can be supplied with handle when ordered. ④ : Supplied to order.
⊛ : Special on request

RCBOs TLB Series

Frame size (AF)		100		100	125		125		
Type		TLB—100L1		TLB—100E	TLB—125E		TLB—125S		
Number of poles		3	4	3	3		3	4	
Rated current(A) at ambient temperature 40℃		15 20 30 40 50 60 75 100		15 20 30 40 50 60 75 100	15 20 30 40 50 60 75 100 125		15 20 30 40 50 60 75 100 125		
Phases and wires		1φ2W 1φ3W 3φ3W	3φ4W	1φ2W 1φ3W 3φ3W	1φ2W 1φ3W 3φ3W		1φ2W 1φ3W 3φ3W	3φ4W	
Rated insulation voltage (V)		110~440		110~440	220-440		220-440		
Rated sensitivity current (mA) ( ) : rated non-tripping current (mA)	Standard goods	30(15)		30(15)	30(15)		30(15)		
	Order goods	100(50),200(100), 500(250) changeover ③		100(50),200(100), 300(150) changeover ③	100(50),200(100), 300(150) changeover ③		100(50),200(100), 300(150) changeover ③		
Max. operation time (sec.)		≦ 0.1							
Earth leakage indication		Indicator							
Rated breaking capacity (kA)									
IEC 60947-2	AC 440V	7.5／3.8		7.5／3.8	15／7.5		25／13		
EN 60947-2	AC 415V	7.5／3.8		10／5	22／11		30／15		
CNS 14816-2	AC 380V	7.5／3.8		10／5	22／11		30／15		
Icu/Ics	AC 220V	10／5		15／7.5	30／15		50／25		
CNS 5422 JIS C8371 Icu	AC 440V 480V	7.5		7.5	15		25		
	AC 380V	7.5		10	22		30		
	AC 220V 240V	7.5		15	30		50		
	AC 100V 110V	10		15	—		—		
Dimensions (mm)	a	75	100	90	90		90	120	
	b	130	130	155	155		155		
	C (hight)	60	60	68	68		86		
	d	80	80	86	86		106		
	aa	25	25	30	30		30		
	bb	111	111	132	132		132		
Weight (kg)		0.7	0.9	1.2	1.3		1.55	2	
Features									
Automatic tripping device		Hydraulic-magnetic		Fixed-thermal and fixed-magnetic					
Earth leakage tripping device		Electronic		Electronic					
Trip button		●		●					
Connections		Terminal screw		Terminal screw					
Accessories (option)									
Internally mounted	Shunt trip SHT	●		●	●		●		
	Under voltage trip UVT	—		—	—		—		
	Auxiliary switch AUX	●		●	●		●		
	Alarm switch ALT	●		●	●		●		
Externally mounted	Electrical operation mechanics CD	—		—	—		—		
	External operating handle FH	—		—	—		—		
	External operating handle FL	—		●	●		●		
	External operating handle FG	●		●	●		●		
	External operating handle TFJ	—		—	—		—		
	Extension handle EHA	—		—	—		—		
	Attached flat bar TBB	—		—	—		—		
	Interpole barrier TQO	●①		●①	●①		●①		
	Terminal cover XPR	●		●	●		●	—	

Note : ● : Available — : Not available ① : Standard accessory ② : Built in ③ : Supplied to order.

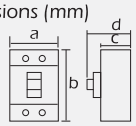
RCBOs TLB Series

Frame size (AF)		250	250		400		
Type		TLB—250E	TLB—250S		TLB—400S		
Number of poles		3*	3*	4*	3*		
Rated current(A) at ambient temperature 40℃		125 150 175 200 225 250	125 150 175 200 225 250		250 300 350 400		
Phases and wires		1φ2W 1φ3W 3φ3W	1φ2W 1φ3W 3φ3W	3φ4W	1φ2W 1φ3W 3φ3W		
Rated insulation voltage (V)		220-440	220-440		220 380-440		
Rated sensitivity current (mA) ( ) : rated non-tripping current (mA)	Standard goods	30(15)	30(15)		100(50),200(100), 300(150) changeover ③		
	Order goods	100(50),200(100), 500(250) changeover ③	100(50),200(100), 300(150) changeover ③		—		
Max. operation time (sec.)		≦ 0.1					
Earth leakage indication		Indicator					
Rated breaking capacity (kA)							
IEC 60947-2	AC 440V	15／7.5	25／13		25／13		
EN 60947-2	AC 415V	22／11	30／15		30／15		
CNS 14816-2	AC 380V	22／11	30／15		30／15		
Icu/Ics	AC 220V	30／15	50／25		50／25		
CNS 5422 JIS C8371	AC 440V 480V	15	25		25		
	AC 380V	22	30		30		
	AC 220V 240V	30	50		50		
Icu	AC 100V 110V	10	1		—		
Dimensions (mm)	a	105	105	140	140		
	b	165	165		275		
	C (hight)	68	86		97		
	d	89	108		155		
	aa	35	35		44		
	bb	126	126		194		
Weight (kg)		1.4	1.8	2.7	5.4		
Features							
Automatic tripping device		Fixed-thermal and fixed-magnetic					
Earth leakage tripping device		Electronic					
Trip button		●					
Connections		Terminal screw			Busbar		
Accessories (option)							
Internally mounted	Shunt trip SHT	●	●		●		
	Under voltage trip UVT	—	—		—		
	Auxiliary switch AUX	●	●		●		
	Alarm switch ALT	●	●		●		
Externally mounted	Electrical operation mechanics CD	—	—		—		
	External operating handle FH	—	—		—		
	External operating handle FL	—	●		●		
	External operating handle FG	●	●		●		
	External operating handle TFJ	—	—		—		
	Extension handle EHA	—	—		—		
	Attached flat bar TBB	—	—		—		
	Interpole barrier TOQ	●①	●①		●①		
	Terminal cover XPR	●	●		●		

Note : ● : Available — : Not available ① : Standard accessory ② : Built in ③ : Supplied to order.

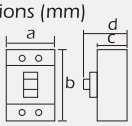
TJ Series MCB

		MCB 6kA				MCB 10kA			
Frame size (AF)		63							
Type		TJ-636S				TJ-6310S			
Characteristic		"C" Curve				"C" Curve			
Number of poles		1	2	3	4	1	2	3	4
Ambient temperature		40℃							
Rated voltage (V) AC		240	415	415	415	240	415	415	415
Rated breaking capacity (kA)									
IEC 60898 Icu	AC 415V	6	6	6	6	10	10	10	10
	AC 240V	6	6	6	6	10	10	10	10
Rated Current(A)									
		6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A							

Dimensions (mm) 	a	18	36	54	72	18	36	54	72
	b	82							
	C	50							
	d	75							
Weight (kg)		0.1	0.2	0.3	0.4	0.1	0.2	0.3	0.4
Automatic tripping device		Fixed-thermal and fixed-magnetic							
Connections		Terminal screw							
Installation		On 35 mm DIN rail							

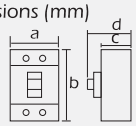
SB Series Safety Switch

		SB
Frame size (AF)		30
Type		TSS
Characteristic		
Number of poles		2
Ambient temperature		40℃
Rated voltage (V) AC		240
Rated breaking capacity (kA)		
IEC 60898 Icu	AC 415V	
	AC 240V	1.5kA
Rated Current(A)		
		6A, 10A, 16A, 20A, 25A, 32A,

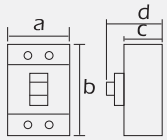
Dimensions (mm) 	a	32
	b	70
	C	26
	d	50
Weight (kg)		0.1Kg

RC Series RCCB

		RCCB			
Frame size (AF)		63			
Type		RC-362		RC-364	
Characteristic		C、D curve			
Number of poles		2	2	4	4
Ambient temperature		40℃			
Rated voltage (V) AC		240	240	415	415
Rated Current(A)					
		25A, 32A, 40A, 63A			

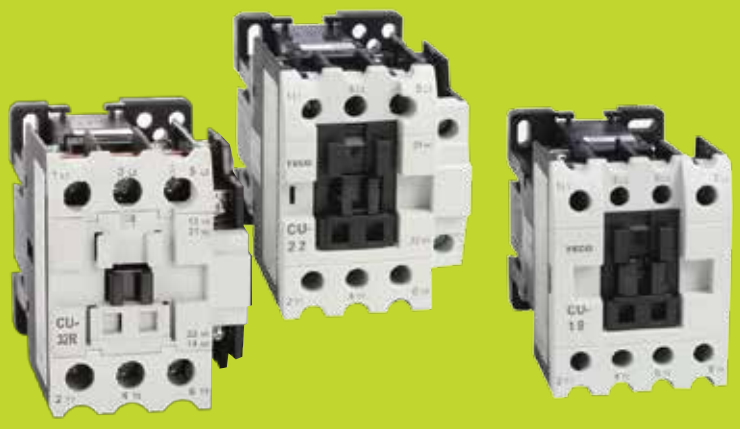
Dimensions (mm) 	a	36		72	
	b	82			
	C	50			
	d	75			
Weight (kg)		0.2	0.2	0.35	0.35

ELCB – TLB TLZ Series

Frame size (AF)		30	50		50		50	
Type		TLZ-30F	TLZ-50B		TLZ-50EC		TLZ-50EB	
Number of poles		2	2		2	3	1P2E	2P2E
Rated current(A) at ambient temperature 40℃		5 10 15 20 30	30	50	5 10 15 20 30 40 50		15 20 30 40 50	
Phases and wires		1ø2W	1ø2W		1ø2W	1ø2W 3ø3W 1ø3W	1ø2W	
Rated insulation voltage (V)		110~220	110~220		110~220	220~440	110~220	220
Rated sensitive current (mA)		30(15)	30(15)		30(15)		30(15)	
Max. operation time (sec.)		≤0.1(s)						
Earth leakage indication		BUTTON						
Rated breaking capacity (kA)	AC 440V	-	-	-	-	2.5	-	-
	AC 380V	-	-	-	-	2.5	-	-
	AC 220V	1.5	1.5	2.5	2.5	2.5	5	5
	AC 110V	1.5	1.5	2.5	2.5	-	5	-
Dimensions 	a	32	35		68.5	90	5	50
	b	70	70		71	80	123	113
	c	38	41		40	40	60	60
	d	52	56.5		58.5	58.5	77	80
	aa	-	-		34	55	-	-
	bb	62	62		60	70	-	-
Weight (kg)		0.11	0.13		0.2	0.3	0.23	0.38

Note：● : Available —：Not available ①：Standard accessory ②： Built in ③：Supplied to order.

U&N series



1 High Performance

- Comply with IEC 60947, UL 508 CSA C22.2, GB 14048
- Electrical Lifeespan : 1M operations

2 High Reliability

- Dual Points Aux. Contact Design

3 Safety

- V-0 Flame Retardant Materials in Casing
- IP-20 Finger Protection Terminals

4 Green Products

- Compliance with RoHS
- Enviromentally Friendly Materials

5 Universal Design

- New Appearance with Streamline Front Cover Design
- Approvals :

Certificates

Certificates

Catalogue number	Canada		Canada & U.S.A.		Germany	EC Declaration of conformity
Miniature Contactors						
CN-5		●		●	●	●
CN-5K		●		●		●
CN-6		●		●	●	●
CN-6K		●		●		●
CNL-5		●		●	●	●
CNL-5K		●		●		●
CNL-6		●		●	●	●
CNL-6K		●		●		●
U Series IEC Contactors						
CU-9		●		●	●	●
CU-11		●		●	●	●
CU-12				●		
CU-16		●		●	●	●
CU-17				●		
CU-18		●		●	●	●
CU-18/4P		●		●	●	●
CU-22		●		●	●	●
CU-22/4P		●		●	●	●
CU-27		●		●		●
CU-32R				●		
CU-38		●		●		●
CU-40		●		●	●	●
CU-50		●		●	●	●
CU-65		●		●	●	●
CU-80		●		●	●	●
CU-90				●		
CUL-9		●		●	●	●
CUL-11		●		●	●	●
CUL-12				●		
CUL-16		●		●	●	●
CUL-17				●		
CUL-18		●		●	●	●
CUL-18/4P		●		●	●	●
CUL-22		●		●		●
CUL-22/4P		●		●		●
CUL-27		●		●		●
CUL-32R				●		
CUL-38		●		●		●
CUL-40		●		●	●	●
CUL-50		●		●	●	●
CUL-65		●		●	●	●
CUL-80		●		●	●	●
CUL-90				●		
CL-10F	●					
N Series IEC Contactors						
CN-100R		●		●		
CN-125R		●		●		
CN-150		●		●		●
CN-180		●		●		●
CN-220		●		●		●
CN-300		●		●		●
CN-400(K)						●
CN-500(K)						●
CN-630(K)						●
CNL-100R		●		●		
CNL-125R		●		●		
CNL-150		●		●		
CNL-180		●		●		●
CNL-220		●		●		●

Certificates

Catalogue number	Canada		Canada & U.S.A.		Germany	EC Declaration of conformity
RHU / RHN Series Bimetallic Overload Relays						
RHU-5		●		●		●
RHU-10		●		●		●
RHU-80		●		●		●
RHN-180		●		●		●
D.O.L Magnetic Starters						
HUE-9/11/16					●	●
HUEB-9/11/16					●	●
HUF-9/11/16/18					●	●
HUFB-9/11/16/18					●	●
Definite Purpose Contactors						
DPA-1 Pole		●	●			●
DPA-1.5 Pole		●	●			●
DPA-2 Pole		●	●			●
DPA-3 Pole		●	●			●
Electronic Overload Relays						
EOL-40/		●		●	●	●
EOL-80/		●		●	●	●
EOL-200/		●		●	●	●
Accessories						
CUA-2		●		●		●
CUA-4		●		●		●
CNA-2M		●		●	●	●
CNA-4M		●		●	●	●
CNA-110		●		●	●	●
CNA-111B(C)		●		●	●	●
CNA-111SR		●		●	●	●
RAU-4		●		●		
RAM-4		●		●		●
RAM-4K		●		●		●
CI-18 /35		●		●		
CNI-6		●		●		
CNI-18		●		●		●
CNI-100		●		●		
CNE-1		●		●		●
CSS-1/2(S)						●

CU Series IEC Contactors

			CN-5(K)			CN-6(K)			CU-11			CU-12			CU-16			CU-17			CU-18			CU-22		
Non-reversing Type																										
			CN-5P(K)			CN-6P(K)			CUL-11			CUL-12			CUL-16			CUL-17			CUL-18			CUL-22		
																										
Reversing Type			CNL-5(K)			CNL-6(K)																				
																										
Rated Insulation Voltage (Ui) IEC		V	690/600						690/600			690/600			690/600			690/600			1000/600			1000/600		
Termal Current IEC (Ith)		A	20						25			25			25			25			35			40		
Termal Current UL (Ith)		A	20						24			24			30			30			35			40		
			A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp
Rated Power Capacities (Ie) AC3 IEC 60947-4-1	1P	110V	8	0.37	0.5	10.5	0.55	0.75	10.5	0.55	0.75	10.5	0.55	0.75	13.5	0.75	1	13.5	0.75	1	19.5	1.1	1.5	25.5	1.5	2
		220V	7	0.75	1	10	1.1	1.5	10.5	1.1	1.5	10.5	1.1	1.5	14	1.5	2	14	1.5	2	20.5	2.2	3	26	3	4
	3P	220/230V	7.5	1.5	2	10.1	2.2	3	12	3	4	12	3	4	16	4	5.5	16	4	5.5	23	5.5	7.5	27	7.5	10
		380/400V	7	3	4	9	4	5.5	12	5.5	7.5	12	5.5	7.5	16	7.5	10	16	7.5	10	22	11	15	26	11	15
		415V	6.5	3	4	8.5	4	5.5	11	5.5	7.5	11	5.5	7.5	15	7.5	10	15	7.5	10	21	11	15	21	11	15
		440V	6	3	4	8	4	5.5	11	5.5	7.5	11	5.5	7.5	15	7.5	10	15	7.5	10	21	11	15	21	11	15
		500V	5	3	4	6.5	4	5.5	9	5.5	7.5	9	5.5	7.5	13	7.5	10	13	7.5	10	19	11	15	19	11	15
		660V	4	3	4	5	4	5.5	7	5.5	7.5	7	5.5	7.5	10	7.5	10	10	7.5	10	14	11	15	14	11	15
		690V	4	3	4	5	4	5.5	7	5.5	7.5	7	5.5	7.5	10	7.5	10	10	7.5	10	14	11	15	14	11	15
NEMA class			00						0			0									1					
Contact configuration			Non-reversing: 3A1a or 3A1b Reversing: 3A1a x 2 or 3A1b x 2									Non-reversing: 3A1a1b Reversing: 3A1a1b x 2			Non-reversing: 3A1a or 3A1b Reversing: 3A1a x 2 or 3A1b x 2			Non-reversing: 3A1a1b Reversing: 3A1a1b x 2								

CN Series IEC Contactors

Non-reversing Type			CN-100R			CN-125R			CN-150			CN-180			CN-220			CN-300			CN-400(K)			CN-500(K)		
																					註3			註3		
Reversing Type			CNL-100R			CNL-125R			CNL-150			CNL-180			CNL-220			CNL-300			CNL-400(K)			CNL-500(K)		
																					註3			註3		
Rated Insulation Voltage (Ui) IEC		V	1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000			1000		
Termal Current IEC (Ith)		A	135			150			200			240			260			350			450			550		
Termal Current UL (Ith)		A	130			150			200			240			260			350			—			—		
			A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp
Rated Power Capacities (Ie) AC3 IEC 60947-4-1	1P	110V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		220V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	3P	220/230V	115	30	40	138	40	54	150	45	60	182	55	75	225	65	85	300	90	125	400	110	150	500	150	205
		380/400V	115	60	80	138	75	100	147	80	110	179	95	125	225	120	160	300	160	220	400	200	270	500	257	350
		415V	105	60	80	138	75	100	138	80	110	182	100	136	220	125	170	300	160	220	400	220	300	460	257	350
		440V	105	60	80	135	75	100	131	80	110	182	110	150	220	132	180	300	160	220	400	220	300	430	257	350
		500V	93	65	85	105	75	100	129	90	125	156	110	150	190	132	180	250	160	220	375	257	350	410	280	380
		660V	75	65	85	85	75	100	107	100	136	118	110	150	140	132	180	220	200	270	330	300	410	355	335	450
		690V	75	65	85	85	75	100	107	100	136	118	110	150	140	132	180	220	200	270	330	300	410	355	335	450
NEMA class			3			4												5			5			6		
Contact configuration			Non-reversing: 3A2a2b Reversing: 3A2a2b x 2			Non-reversing: 3A2a2b (Max 3A4a4b) Reversing: 3A2a2b x 2 (Max 3A3a3bx2)															Non-reversing: 3A2a2b (Max 3A4a4b) , AC coil plus 1a Reversing: 3A2a2b x 2 (Max. 3A4a4b x 2)								

CU-27	CU-32	CU-32R	CU-38	CU-40	CU-50	CU-65	CU-80	CU-90
								
CUL-27	**CUL-32**	**CUL-32R**	**CUL-38**	**CUL-40**	**CUL-50**	**CUL-65**	**CUL-80**	**CUL-90**
								
1000/600	1000/600	1000/600	1000/600	1000/600	1000/600	1000/600	1000/600	1000/600
50	60	60	60	60	70	80	100	135
45	50	50	55	60	72	85	104	120

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
30	1.5	2	35	1.5	2	35	1.5	2	39	2.2	3	43	2.2	3	48	3	4	50	3	4	60	4	5.5	—	—	—
30	3	4	35	3.7	5	35	3.7	5	39	5	7	43	5.5	7.5	48	6	8	50	6	8	55	7.5	10	—	—	—
30	7.5	10	35	9	12	35	9	12	39	11	15	44	11	15	55	15	20	65	18.5	25	75	22	30	85	25	35
30	15	20	32	15	20	32	15	20	38	18.5	25	40	20	27	55	25	35	64	30	40	72	37	50	85	45	60
28	15	20	32	15	20	32	15	20	38	22	30	40	22	30	52	25	35	64	33	45	72	40	54	85	45	60
27	15	20	32	15	20	32	15	20	38	22	30	40	22	30	52	30	40	64	37	50	70	40	54	85	51	70
26	15	20	30	18.5	25	30	18.5	25	33	22	30	35	22	30	45	30	40	55	37	50	65	45	60	80	55	75
21	15	20	23	18.5	25	23	18.5	25	25.2	22	30	26	22	30	35	30	40	45	37	50	60	45	60	65	55	75
20	15	20	22	18.5	25	22	18.5	25	24.2	22	30	26	22	30	35	30	40	45	37	50	60	45	60	65	55	75
												2										3				

Non-reversing: 3A1a1b Reversing: 3A1a1b x 2	Non-reversing: 3A2a2b Reversing: 3A2a2b x 2

CU Series IEC Contactors

CN-630(K)
 註3
CNL-630(K)
 註3
1000
660
—

A	kW	Hp
—	—	—
—	—	—
630	200	270
630	335	450
600	355	480
600	375	500
525	355	480
460	450	610
460	450	610
6		

Catalouge Number			CU-10/4P		CU-18/4P		CU-22/4P	
								
Rated Insulation Voltage (Ui) IEC V			690		1000		1000	
Termal Current AC/DC (Ith) A			25		35		40	
			A(AC1)	KW(AC1)	A(AC1)	KW(AC1)	A(AC1)	KW(AC1)
Rated Power Capacities (Ie) AC1 IEC 60947-1 CNS 14816	1P	110V	25	2.7	35	3.9	40	4.3
		220V	25	5.5	35	8	40	8.8
	3P	220V	25	9.5	35	13	40	15
		380V	25	16	35	23	40	26
		440V	25	19	35	27	40	29
		550V	—	—	—	—	—	—
Contact configuration			4A		4A or 2A2B			

Capacitor Contactors

Catalogue Number			CU-11C		CU-17C		CU-18C		CU-32C		CU-50C		CU-65C		CU-80C	
																
Rated Insulation Voltage (Ui) IEC,CNS/UL	V		690/600		690/600		1000/600		1000/600		1000/600		1000/600		1000/600	
Thermal Current (Ith) IEC/UL	A		25/24		25/32		35/35		60/50		70/72		80/85		100/104	
			KVAR	A	KVAR	A	KVAR	A	KVAR	A	KVAR	A	KVAR	A	KVAR	A
Rated Power Capacities (Ie) AC 6b IEC 60947-4-1 CNS 14816	Three Phase	220-240V	6.9	18	8.5	22	10	26	15	39	25	60	27	66	36	92
		400-440V	12.5	16	16.7	22	20	26	30	39	40	58	45	65	61	86
		550-600V	18	16	24	21	30	29	44	42	47	45	58	54	84	81
Contact Configuration			3A1a+1a or 3A1b+1a		3A1a1b+1a				3A2a2b+1a							
Rated Making Capacity	A		X x Ie ("X" depends on capacity of capacitor)													
Rated Breaking Capacity	A		1 x Ie													
Operational Frequency	times/hr		300													
Mechanical Durability	(million ops)		1													
Electrical Durability AC 6b	(million ops)		0.2													
Weight (kg)			0.4		0.5		0.5		0.6		1.4					
Environment	Storage Temperature	(℃)	-40 ~+80													
	Operating Temperature	(℃)	-20 ~+55 (Non frozen)													
	Relative Humidity	(RH)	45~85% (Non dew)													
	Operating Altitude	(m)	Below 2000m													
	Operating Position	(Degree)	±30°													
Control Circuit Features																
Contact Configuration			1a+1a or 1b + 1a		1a1b + 1a				2a2b + 1a							
Rated Insulation Voltage (Ui) IEC,CNS/UL	V		690/600													
Rated Operation Voltage (Ue) IEC,CNS/UL	V		660/600													
Thermal Current (Ith) AC/DC	A		10 / 2.5													
Contact Rating Code Designatior UL			A600 Q300													
Rated Operational (Ie) Current (A) IEC 60947-5-1 UL 508	AC-15 /A600	120V	6													
		240V	3													
		380V	1.9													
		480V	1.5													
		500V	1.4													
		600V	1.2													
	DC-13 /Q600	125V	0.55													
		250V	0.27													

H Series Magnetic Starters
with Push button

Catalogue number	IP 40	HUEB-11			HUEB-16			HUB-18			HUB-22			HUB-32R			HUB-40		
	IP 42	HUPB-11			HUPB-16			HUPB-18			HUPB-22			—			—		
	IP 65	HUFB-11			HUFB-16			HUFB-18			HUFB-22			—			—		
Rated Insulation Voltage (Ui) IEC V		690			690			1000			1000			1000			1000		
Rated Operational Voltage (Ue) IEC V		690			690			690			690			690			690		
Thermal Current (Ith) IEC/UL A		25/24			25/32			35/35			40/40			60/55			60/60		
		A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp
Rated Power Capacities (Ie) AC3 IEC 60947-4-1	Single 110V	10.5	0.55	0.75	13.5	0.75	1	19.5	1.1	1.5	25.5	1.5	2	35	1.5	2	43	2.2	3
	Single 220V	10.5	1.1	1.5	14	1.5	2	20.5	2.2	3	26	3	4	35	3.7	5	43	5.5	7.5
	Three phase 220V	12	3	4	16	4	5.5	23	5.5	7.5	27	7.5	10	35	9	12	44	11	15
	Three phase 380V	12	5.5	7.5	16	7.5	10	22	11	15	26	11	15	32	15	20	40	20	27
	Three phase 415V	11	5.5	7.5	15	7.5	10	21	11	15	21	11	15	32	15	20	40	22	30
	Three phase 440V	11	5.5	7.5	15	7.5	10	21	11	15	21	11	15	32	15	20	40	22	30
	Three phase 500V	9	5.5	7.5	13	7.5	10	19	11	15	19	11	15	30	18.5	25	35	22	30
	Three phase 660V	7	5.5	7.5	10	7.5	10	14	11	15	14	11	15	23	18.5	25	26	22	30
	Three phase 690V	7	5.5	7.5	10	7.5	10	14	11	15	14	11	15	22	18.5	25	26	22	30
Rated Power Capacities (Ie) AC3 UL 508	Single 110-120V	16	—	1	20	—	1.5	24	—	2	24	—	2	24	—	2	34	—	3
	Single 220-240V	12	—	2	17	—	3	17	—	3	28	—	5	38	—	5	40	—	7.5
	Three phase 200/208V	18	—	5	18	—	5	26	—	7.5	26	—	7.5	25.3	—	75	49	—	15
	Three phase 220-240V	15.2	—	5	15.2	—	5	22	—	7.5	28	—	10	28	—	10	42	—	15
	Three phase 440-480V	11	—	7.5	14	—	10	21	—	15	27	—	20	27	—	20	40	—	30
	Three phase 550-600V	11	—	10	11	—	10	17	—	15	22	—	20	27	—	30	41	—	40
For use with bimetallic overload relays		RHU-10/□1			RHU-10/□1			RHU-10/□1			RHU10/□1			RHU-10/□2			RHU80/□2		
For use with contactors		CU-11			CU-16			CU-18			CU-22			CU-32R			CU-40		
Contact Configuration		3A1a or 3A1b						3A1a 1b											
Electrical Durability (ops)		1M						1M											
Mechanical Durability (ops)		5M						5M											
Overall Dimensions (w* h * d) mm / (kg)	IP 40	88*160*107.5 / 0.9						100*170.6*117.3 / 2.0						130*240*136 / 2.0			130*240*136 / 2.0		
	IP 42	90*184*112 / 0.9						100*194*122.5 / 0.9						—			—		
	IP 65																		

H Series Magnetic Starters
with Push button

Catalogue number			HUB-50			HUB-65			HUB-80			HUB-90		
	IP 40		—			—			—			—		
	IP 42		—			—			—			—		
	IP 65		—			—			—			—		
Rated Insulation Voltage (Ui) IEC V			1000			1000			1000			1000		
Rated Operational Voltage (Ue) IEC V			690			690			690			690		
Thermal Current (Ith) IEC/UL A			70/72			80/85			100/104			135/120		
			A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp
Rated Power Capacities (Ie) AC3 IEC 60947-4-1	Single	110V	48	3	4	60	4	5.5	60	4	5.5	—	—	—
		220V	48	6	8	60	7.5	10	55	7.5	10	—	—	—
	Three phase	220V	55	15	20	75	22	30	75	22	30	85	25	35
		380V	55	25	35	72	37	50	72	37	50	85	45	60
		415V	52	25	35	72	40	54	72	40	54	85	45	60
		440V	52	30	40	70	40	54	70	40	54	85	51	70
		500V	45	30	40	65	45	60	65	45	60	80	55	75
		660V	35	30	40	60	45	60	60	45	60	65	55	75
		690V	35	30	40	60	45	60	60	45	60	65	55	75
Rated Power Capacities (Ie) AC3 UL 508	Single	110-120V	56	—	5	80	—	7.5	80	—	7.5	80	—	7.5
		220-240V	50	—	10	68	—	15	68	—	15	68	—	15
	Three phase	200/208V	49	—	15	79	—	25	79	—	25	79	—	25
		220-240V	54	—	20	80	—	30	80	—	30	80	—	30
		440-480V	52	—	40	77	—	60	77	—	60	77	—	60
		550-600V	52	—	50	62	—	60	62	—	60	77	—	75
For use with bimetallic overload relays			RHU-80/□3			RHU-80/□3			RHU-80/□3			RHU-80/□3		
For use with contactors			CU-50			CU-65			CU-80			CU-90		
Contact Configuration			3A1a 1b						3A2a 2b					
Electrical Durability (ops)			1M						1M					
Mechanical Durability (ops)			5M						5M					
Overall Dimensions (w* h * d) mm / (kg)	IP 40		170*330*154 / 3.5						170*330*154 / 3.5					
	IP 42		—						—					
	IP 65													

RHU/RHN Series Thermal Overload Relays

Features

* Reduce power consumption for energy saving and reduction of carbon emissions
* Comply with IEC, and China GB standard motor
* Certified: CSA, UL
* Comply with RoHS, CE
* Phase failure protection

Catalogue number			RHU-5/□	RHU-10/□1	RHU-10/□2	RHU-80/□□1	RHU-80/□□2	RHU-80/□□3
Frame Size (mm)			45			56		
Rated Insulation Voltage (Ui)			UL 600V, IEC 690V					
Setting Current Range (A)			0.1~0.16 0.16~0.25 0.25~0.4 0.35~0.5 0.45~0.63 0.55~0.8 0.75~1 0.9~1.3 1.1~1.6 1.4~2 1.8~2.5 2.3~3.2 2.9~4 3.5~4.8 4.5~6.3 5.5~7.5 7.2~10 9~12.5	0.1~0.16 0.16~0.25 0.25~0.4 0.35~0.5 0.45~0.63 0.55~0.8 0.75~1 0.9~1.3 1.1~1.6 1.4~2 1.8~2.5 2.3~3.2 2.9~4 3.5~4.8 4.5~6.3 5.5~7.5 7.2~10 9~12.5 11.3~16 15~20 17.5~21.5 21~25 24.5~30 29~36 33~38	9~12.5 11.3~16 15~20 17.5~21.5 21~25 24.5~30 29~36 33~38	17~25	17~25 24.5~36 35~47	24.5~36 34~47 45~60 58~75 72~90
For Use With Contactors			CN-5(K)/CN-6(K)	CU-9/11/12/16/17/18/22/32R	CU-27/32/38	CU-18/22/32R	CU-40	CN-50/65/80
Type of Terminal			Screw					
Reset Mode			Automatic, Manual					
Contacts Configuration			1a+1b					
Temperature Compensation Range			—5℃ ~ +40℃					
Trip Class			10A					
Contact Capacities	AC 15	120V	6					
		240V	3					
		380V	1.9					
	Ith	N.C. Contact	10	6		10		
		N.C. Contact	10	6		10		
Applicable adapter			RP-10	—		—		
Maximum wire size in AWG			AWG10 (5.3mm^2)	AWG8 (8.4mm^2)		AWG4 (22mm^2)		AWG3 (38mm^2)

RHU/RHN Series Thermal Overload Relays

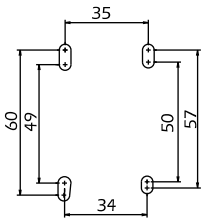
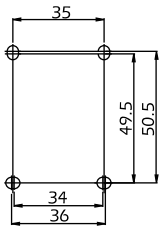
Catalogue number			RHU-80/□□4	RHU-80/□□P	RHN-180/□□1	RHN-180/□□2	RHN-180/□□3	RHN-180/□□4
Frame Size (mm)			56		100			
Rated Insulation Voltage (Ui)			UL 600V, IEC 690V					
Setting Current Range (A)			17~25 24.5~36 34~47	17~25 24.5~36 34~47 45~60 58~75 72~90 77~97	65~95 85~125 110~160	65~95 85~125 110~160	65~95 85~125 110~160 125~185	65~95 85~125 110~160 125~185
For Use With Contactors			CU-27/32/38	With adapter	CN-100R/125R	CN-150	CN-180	CN-220/300
Type of Terminal			Screw					
Reset Mode			Automatic, Manual					
Contacts Configuration			1a+1b					
Temperature Compensation Range			—5℃ ~ +40℃					
Trip Class			10A					
Contact Capacities	AC 15	120V	6					
		240V	3					
		380V	1.9					
		480V	1.5					
		500V	1.4					
		600V	1.2					
	Ith	N.C. Contact	10					
		N.C. Contact	10					
Applicable adapter			—					
Maximum wire size in AWG			AWG4 (22mm^2)	AWG3 (38mm^2)	—			

Catalogue number			RHN-180/□□P	RHN-300/□□	RHN-300/□□P
Frame Size (mm)			100	150	
Rated Insulation Voltage (Ui)			UL 600V, IEC 690V		
Setting Current Range (A)			65~95 85~125 110~160 125~185	145~200 175~240 203~280 245~336	145~200 175~240 203~280 245~336
For Use With Contactors			—	CN-220/300	—
Type of Terminal	Power Side		—	Terminal	Screw
	Load Side		Screw		
Reset Mode			Automatic, Manual		
Contacts Configuration			1a+1b		
Temperature Compensation Range			—5℃ ~ +40℃		
Trip Class			10A		
Contact Capacities	AC 15	120V	6		
		240V	3		
		380V	1.9		
		480V	1.5		
		500V	1.4		
		600V	1.2		
	Ith	N.C. Contact	10		
		N.C. Contact	10		
Applicable adapter			—		
Maximum wire size in AWG			—		

RAU-4 / RAM-4 Control Relays

Features

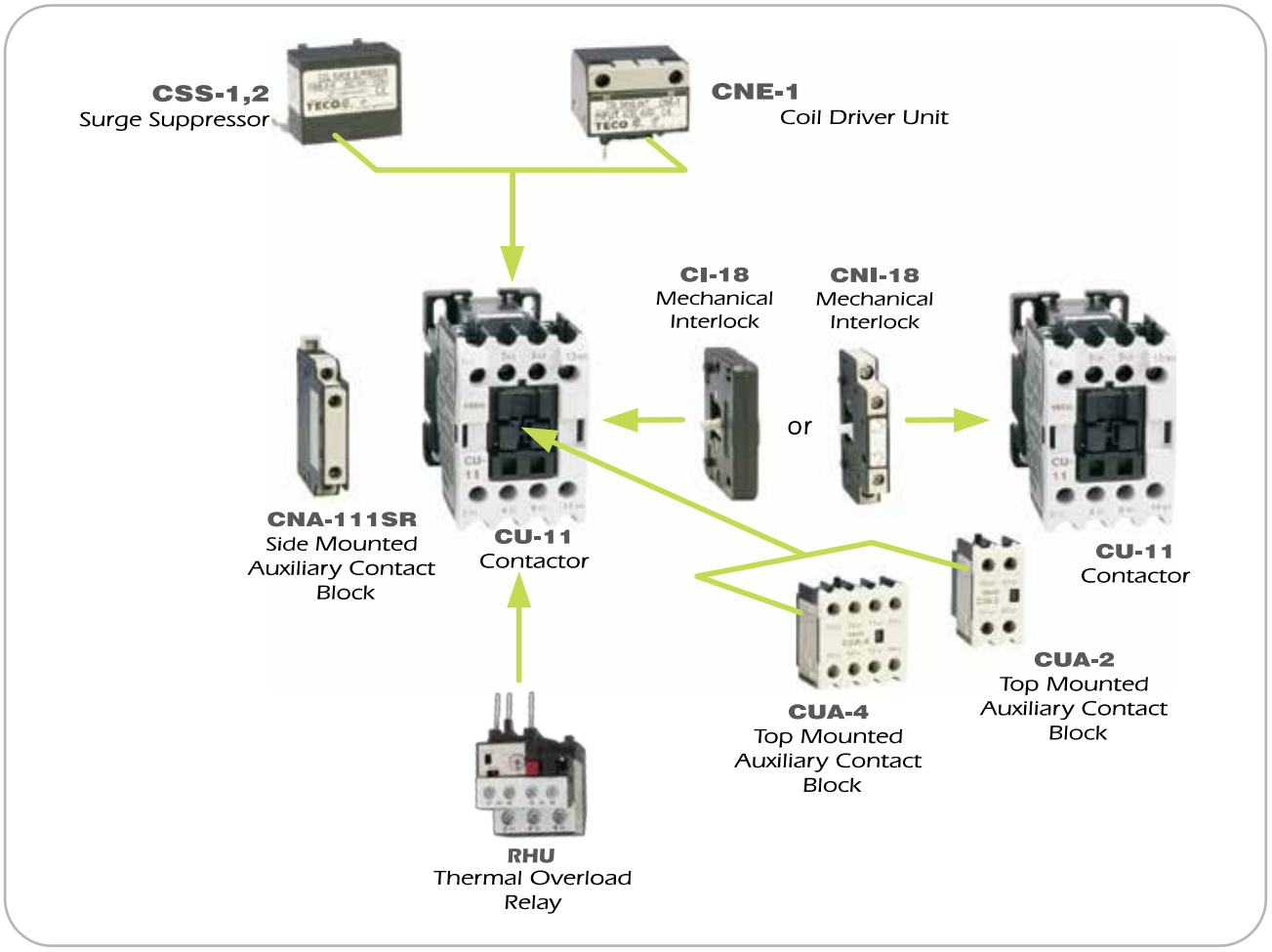
* 4,6,8 auxiliary contacts avaliable
* Easy installation by screw and DIN
* Protective cover design
* Dual contacts design
* Flame-retardant engineering plastics in coil set

Catalogue number			RAU-4	RAM-4	RAM-4K
					
Rated insulation voltage (Ui) IEC V			690	690	
Rated operational voltage (Ue) IEC V			690	690	
Thermal current AC/DC (Ith) A			10	10	
Contact rating code designatior UL			A600 Q300	A600 Q300	
Rated operational current Ie (A) IEC 60947-5-1 UL 508	AC 15 /A600	120V	6	6	
		240V	3	3	
		380V	1.9	1.9	
		480V	1.5	1.5	
		500V	1.4	1.4	
		600V	1.2	1.2	
	DC 13 /Q300	125V	0.55	0.55	
		250V	0.27	0.27	
Contact configuration			4a, 3a1b, 2a2b, 1a3b, 4b	4a, 3a1b, 2a2b	
Electrical durability (ops) AC 15			1M	1M	
Mechanical durability (ops)			5M	5M	
Weight (kg)			0.3	0.18	
 Overall Dimensions (w* h * d) mm			45*70*82	45*58*54	
Installation information					

Accessories

Catalogue number			CNA-2M	CNA-4M	CUA-2	CUA-4	CNA-111SR	CNA-111B(C)
								
Rated insulation voltage (Ui) IEC V			690					
Contact rating code designatior UL			A 600 Q300					
Thermal current AC/DC (Ith) A			10 / 2.5					
Rated operational current Ie (A) IEC 60947-5-1 UL 508	AC 15	120V	6					
		240V	3					
		380V	1.9					
		480V	1.5					
		500V	1.4					
		600V	1.2					
	DC 13	125V	0.55					
		250V	0.27					
Contact configuration			2a, 2b ,1a1b	4a, 3a1b, 2a2b, 1a3b, 4b	2a, 2b, 1a1b	4a, 4b, 3a1b, 2a2b,1a3b	1a1b	1a1b
Electrical durability (ops) AC 15			1M					
Mechanical durability (ops)			5M					
Weight (kg)			0.035	0.04	0.025	0.045	0.04	0.04
For use with	U Series		—	—	CU-11/12/16/17/18/ 22/32R/38/40/50/ 65/80/90		CU-11/12/16/ 17/18/22/32 /38/40	—
	N Series		CN-5/6 CN-5K/6K	CN-5/6 CN-5K/6K	—		—	CN-100R/125R/ 150/180/200/ 300

Accessories



CNI • CI Interlock

＊These reversing contactors (CNL/CUL series) are designed with mechanical interlock. To against short-circuits resulting from stuck contactors.

Catalogue number		CNI-6	CNI-18	CI-18	CI-35	CNI-100
Photo						
Rated insulation voltage (Ui) IEC V		—	690	—	—	—
Rated operational voltage (Ue) IEC V		—	660	—		
Thermal current AC (Ith) A			10			
Contact configuration			2b			
Weight (kg)			0.3			
Minimal operation current			DC24V 5mA			
For use with	U Series	—	CU-11/12/16/17 /18/22/32R	CU-11/16/18/22 27/32/32R/38	CU-40/50/65/80/90	—
	N Series	CN-5/6	—	—	—	CN-100/125/150 /180/220/300
Operational type		Mechanical				
Part number for order		AC : F07912 DC : V83153	V96450 Notes 1	V57909 Notes 1	V57912 Notes 1	V77662

Notes 1 : These type include two dovetail joints.

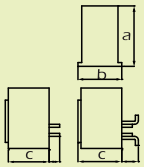
TMS - Manual Motor Starter

Specifications

Catalogue number			TMS-32S				
Frame size			32				
Number of poles			3				
Maximum rated current (A)			32				
Rated operational voltage (VAC)			690				
Operational frequency (Hz)			50 / 60Hz				
Rated breaking capacity (kA) IEC 60947-2 EN 60947-2 Icu/Ics	Rated operational Voltage Ue(V)		220V 240V 230V	415V 400V	460V 440V	525V 500V	690V 600V
	Setting current range ( )means max. Current Ie(A)		Icu/Ics	Icu/Ics	Icu/Ics	Icu/Ics	Icu/Ics
	0.1-0.16 (0.16)		100/100	100/100	100/100	100/100	100/100
	0.16-0.25 (0.25)		100/100	100/100	100/100	100/100	100/100
	0.25-0.4 (0.4)		100/100	100/100	100/100	100/100	100/100
	0.4-0.63 (0.63)		100/100	100/100	100/100	100/100	100/100
	0.63-1.0 (1)		100/100	100/100	100/100	100/100	100/100
	1.0-1.6 (1.6)		100/100	100/100	100/100	100/100	100/100
	1.6-2.5 (2.5)		100/100	100/100	100/100	100/100	3/3
	2.5-4.0 (4)		100/100	100/100	50/38	50/38	3/3
	4-6 (6)		100/100	100/100	50/38	50/38	3/3
	5-8 (8)		100/100	100/100	15/11	10/10	3/3
	6.3-10 (10)		100/100	50/38	15/11	10/10	3/3
	9-13 (13)		100/100	50/38	15/11	6/5	3/3
	11-16 (16)		100/100	25/19	15/11	6/5	3/3
	14-20 (20)		50/50	25/19	10/8	6/5	3/3
	19-25 (25)		50/50	25/19	10/8	6/5	3/3
	24-32 (32)		50/50	25/19	10/8	5/4	3/3
Overall dimensions (mm)		W	45				
		H	96				
		D	93				
Weight (kg)			0.5				
Accessories	Under voltage trip	UVT	●				
	Shunt trip	SHT	●				
	Auxiliary+Alarm switch	AUX+ALT	●				
	Alarm switch	ALT	●				
	Side mounted auxiliary switch		●				
	Top mounted auxiliary switch		●				
Temperature compensation			Automatic				
Phase failure protection			●				
Protection degree			IP 20				
Mechanical endurance (Ops)			100,000				
Electrical endurance (Ops)			100,000				
Operating enviromental temperature			-20 ~ +60℃				
Storage enviromental temperature			-40 ~ +80℃				
Altitude (m)			2,000				
Rated impulse withstand voltage (kV)			6				

BAW Air Circuit Breaker

ISO 9001 CE

Catalogue number			BAW-1250		BAW-1600		BAW-3200		BAW-4000	BAW-6300	
TYPE			FIX, DRAW OUT		FIX, DRAW OUT		FIX, DRAW OUT		DRAW OUT	DRAW OUT	
Number of poles			3	4	3	4	3	4	3	3	4
Rated current A at Ambient temperature 40°C			200 400 6a30 800 1000 1250		200 400 630 800 1000 1250 1600		200 400 630 800 1000 1250 1600 2000 2500	3200	4000	4000 5000 6300	
Maximum rated voltage (Ue) 60Hz V			AC50Hz 400V				AC 50Hz 400V, 690V				
Rated operation voltage (Ui) 60Hz V			690		1000						
Rated insulation voltage (Uimp) k V			8		12						
Rated inpulse withstand voltage In (A)			50% In		50% In		50% In - 100% In			50% In	
Rated beaking capacity (kA)											
IEC 60947-2CNS 14816-2Icu/Ics	AC 400V		65/50		65/50		100/65		100/80	120/100	
	AC 690V						65/50		65/65	80/65	
Fully off time (no additional delay)			12 ~ 18 ms								
Closing time			Max 60m/s								
Opening and closing operation performance			7000		10000					2000	
Dimentions level 	draw out	a	362	362	357	357	438	438	438	488	488
		b	276	346	254	324	450	450	565	828	943
		c	323	323	300	300	516	516	466	466	466
	fix	a	315	315	335	335	401	401	-	-	-
		b	266	336	266	336	537	537	-	-	-
		c	239	239	199	199	372	372	-	-	-

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