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Miniature Circuit Breaker

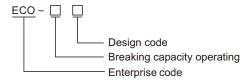
MCB(ECO-3A/4.5A)

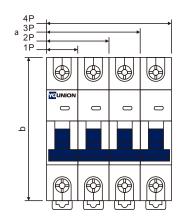


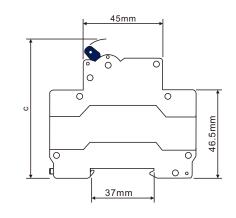
Product advantage

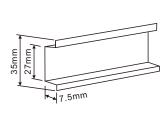
- High frame level 1P+N double breaking point(18mm width, module up to 63A),high breaking capacity(up to 4.5kA).
- Terminal with error protected terminal blocks, and higher safety with contact position indicating window.
- Current limited contact system,magnetic blow-out type arc extinguishing device,can avoid products and equipment from large short circuit current, and improve the arc extinguishing ability of products, then make sure the enhancement of breaking capacity.
- The shell and funcion keys are all made by PA66 nylon which with high flame retardant, high temperature resistance, impact resistant plastics.
- Innovative appearance,reasonable structure and with multiple patent protection.

Model meaning







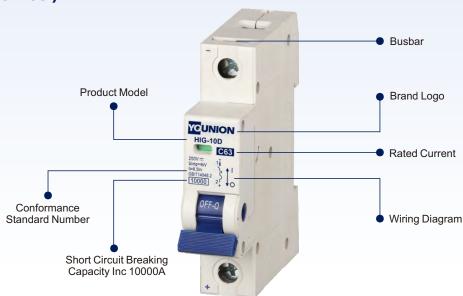




Product model					EC	CO-3/4.	5A			
Pole number				1P	2P	2P 3P				
Shelf rated current		F	A			63				
Technical parameter	rs									
Rated working voltage	ge	Ue	VAC	230/400	400		400		400	
Rated current			Α	1 2 3	4 6 10	16 20	25 32 4	10 50	63	
Rated insulation vol	tage	Ui	V	500						
Rated impulse withsta	and voltage	Uimp	kV			4				
Туре						-				
Breaking capacity or	perating	Icn	kA	3/4.5						
Breaking capacity fo	rce	lcs ^c	%lcn		1	00%/75	%			
Curve type					E	3 C E)			
Release type				Thermomagnetic						
		Actual a	average			20000				
Service life	Mechanical		rd value			8500				
(O~CO)		Actual a	average			10000				
	Electrical		rd value			1500				
Control and indication										
Auxiliary contact										
Alarm contact										
Shunt release										
Under release										
Voltage release										
Connection and inst	allation									
D ((')	Alls	ides		lp40						
Protection grade	Connect	tion port		lp20						
Handle lock					ON/OFF Position					
Connection ability		mr	m^2			1~35				
Ambient temperatur	е	°(-	30~+70)			
Humidity and heat re	esistance					Level 2				
Altitude		n	n			2000				
Relative humidity of	air				+20 9	5% +4	0 509	%		
Pollution grade						3				
Installation environn	nent			W	/ithout significa	ant vibra	ation and in	npact		
Installation category	1					II class				
Installation mode				35r	mm DIN	rail				
Chana dimanaiana (mm)	a	a	17	34		51		68	
Shape dimensions(r	11111)	b)	78	78		78		78	
W*H*D		C		79	79		79		79	
Weight(g) 9		9	80	160		240		320		
■Standard settings	□Optiona	/None	;							

Miniature Circuit Breaker

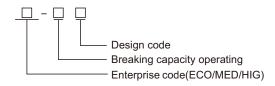
MCB(HIG-10D)

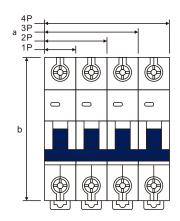


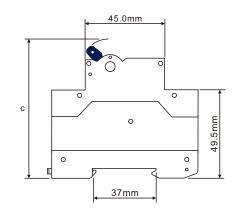
Product advantage

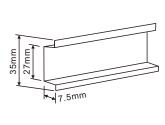
- High frame level 1P+N double breaking point(18mm width, module up to 63A),high breaking capacity(10kA).
- Terminal with error protected terminal blocks, and higher safety with contact position indicating window.
- Current limited contact system, magnetic blow-out type arc extinguishing device, can avoid products and equipment from large short circuit current, and improve the arc extinguishing ability of products, then make sure the enhancement of breaking capacity.
- The shell and funcion keys are all made by PA66 nylon which with high flame retardant, high temperature resistance, impact resistant plastics.
- Innovative appearance, reasonable structure and with multiple patent protection.

Model meaning











■Standard settings □Optiona

/None

Pr	oduct model			HIG-10D					
Pole number				1P	2P	3P	4P		
Shelf rated current		,	4			63			
Technical parameter	rs								
Rated working volta		Ue	VAC	230/400	400	400	400		
Rated current			Α	1 2 3	4 6 10 1	6 20 25 32 40	50 63		
Rated insulation vol	tage	Ui	V			500			
Rated impulse withstand voltage		Uimp	kV			4			
Type		- 1				_			
Breaking capacity operating		lcn	kA			10			
Breaking capacity for			%lcn		10	0% /75%			
Curve type			,,,,,,		В	C D			
Release type					nomagnetic				
		Actual	average			20000			
Service life	Service life (O~CO)		rd value			8500			
			average			10000			
Electrical			rd value			1500			
Control and indication	on								
Auxiliary contact									
Alarm contact									
Shunt release									
Under release									
Voltage release									
Connection and inst	allation								
	Alls	ides		lp40					
Protection grade	Connec	tion port		lp20					
Handle lock				ON/OFF Position					
Connection ability		mı	m^2			1~35			
Ambient temperatur	e		C		-:	30~+70			
Humidity and heat re	esistance				l	_evel 2			
Altitude		r	n			2000			
Relative humidity of	air				+20 95	% +40 50%			
Pollution grade						3			
Installation environn	nent			W	ithout significa	nt vibration and imp	act		
Installation category					l class				
Installation mode				35m	m DIN rail				
Observation to the		6	a	17. 8	36. 5	53. 4	71. 2		
Shape dimensions(r	nm)	I	b	82	82	82	82		
W*H*D		(С	79	79	79	79		
Weight		(g	90	180	270	360		
- 0	·:	/ 5.1							

Miniature Circuit Breaker

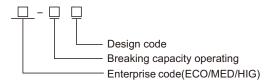
MCB(ECO-4.5D/MED-6D)

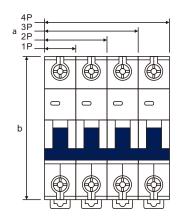


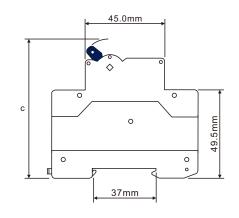
Product advantage

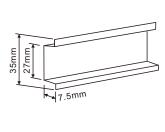
- High frame level 1P+N double breaking point(18mm width, module up to 80A),high breaking capacity(up to 4.5kA,6kA).
- Terminal with error protected terminal blocks, and higher safety with contact position indicating window.
- Current limited contact system, magnetic blow-out type arc extinguishing device, can avoid products and equipment from large short circuit current, and improve the arc extinguishing ability of products, then make sure the enhancement of breaking capacity.
- The shell and funcion keys are all made by PA66 nylon which with high flame retardant, high temperature resistance, impact resistant plastics.
- Innovative appearance, reasonable structure and with multiple patent protection.

Model meaning









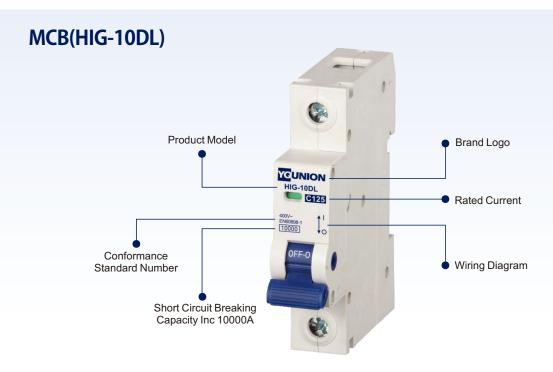


■Standard settings □Optiona

/None

Product model	ECO-4.5D/MED-6D									
Pole number			1P		2P		3P			4P
Shelf rated current	1	Α				63				
Technical parameters										
Rated working voltage	Ue	VAC	230/400		400		400			400
Rated current	ln	Α	1 2 3	4 6	10 16	20 25	32 4	0 5	0 63	80
Rated insulation voltage	Ui	V				500				
Rated impulse withstand voltage	Uimp	kV		4						
Туре						-				
Breaking capacity operating	Icn	kA	4.5/6							
Breaking capacity force	lcs	%Icn			10	0%/75%				
Curve type					В	C D				
Release type					Therr	nomagn	etic			
	Actual	average				20000				
Mechanical Service life	Standa	rd value				8500				
(O~CO)	Actual	average				10000				
Electrical	Standa	rd value				1500				
Control and indication										
Auxiliary contact										
Alarm contact										
Shunt release										
Under release										
Voltage release										
Connection and installation										
Protection grade All	sides		lp40							
Conne	ection port		lp20							
Handle lock			ON/OFF Position							
Connection ability	mı	m²				1~35				
Ambient temperature	°(C			-	30~+70				
Humidity and heat resistance					I	_evel 2				
Altitude	r	n				2000				
Relative humidity of air				+20	95	% +40	50	0%		
Pollution grade						3				
Installation environment			V	Vithout	significa	nt vibrat	ion and	impa	ct	
Installation category						I class				
Installation mode					35m	ım DIN ra	ail			
Shape dimensions(mm)		а	17. 8		36. 5		53. 4		7	71. 2
W*H*D	I	b	82		82		82			82
W 11 D	(С	79		79		79			79
Weight g			90		180		270			360

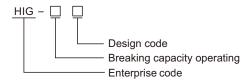
Miniature Circuit Breaker

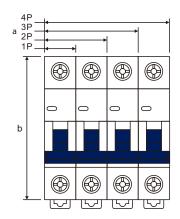


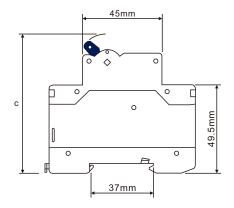
Product advantage

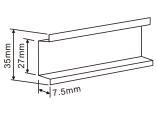
- MBH series circuit breaker is suitable for AC 50Hz, rated voltage 400V and below, rated current to 125A circuit for overload, short circuit protection, can also be usedas a line infrequent operation conversion.
- The circuit breaker is suitable for commercial office buildings and residential houses;
- Meet the GB10963.1, IEC60898-1 standard.

Model meaning











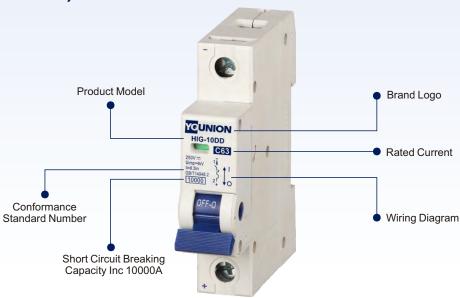
■Standard settings □Optiona

/None

Pole number 1P 2P 3P 4I Shelf rated current A 125 125 Technical parameters Rated working voltage Ue VAC 230/400 400 400 40 Rated current In A 80 100 125 Rated insulation voltage Ui V 500	Р				
Technical parameters Rated working voltage Ue VAC 230/400 400 400 400 Rated current In A 80 100 125					
Rated working voltage Ue VAC 230/400 400 400 400 Rated current In A 80 100 125					
Rated working voltage Ue VAC 230/400 400 400 400 Rated current In A 80 100 125					
	00				
Rated insulation voltage Ui V 500					
•					
Rated impulse withstand voltage Uimp kV 4					
Type /					
Breaking capacity operating Icn kA 10					
Breaking capacity force Ics %Icn 100% /75%					
Curve type B C D					
Release type Thermomagnetic					
Actual average 20000					
Mechanical Service life Standard value 8500					
(O~CO) Actual average 10000					
Electrical Standard value 1500					
Control and indication					
Auxiliary contact					
Alarm contact					
Shunt release					
Under release					
Voltage release					
Connection and installation					
All sides Ip40	lp40				
Protection grade Connection port Ip20					
Handle lock ON/OFF Position	ON/OFF Position				
Connection ability mm ² 1~35					
Ambient temperature °C - 30∼+70					
Humidity and heat resistance Level 2					
Altitude m 2000					
Relative humidity of air +20 95% +40 50%					
Pollution grade 3					
Installation environment Without significant vibration and impact					
Installation category II class					
Installation mode 35mm DIN rail					
Shape dimensions(mm) a 18 36 54 7.	2				
W*H*D b 85 85 85 85 85	5				
C 79 79 79 79	9				
Weight 9 120 240 360 48	30				

Miniature Circuit Breaker

MCB(HIG-10DD)



General

- Rated voltage up to 1000V, Rated current up to 63A;
- Protection of circuits against overload currents;
- Protection of circuits against short-circuit currents;
- MBD-10DC circuit-breakers are used in communication systems and PV DC systems.

Features

- Excellent breaking capacity;
- Double connection function of lead wire and bus bar;
- Stored energy operation, fast closing, long service life;
- Convenient installation, disassembly;
- Contact on-off indication, higher security;
- Green environmental protection and energy saving.

Operating conditions

- Ambient temperature:-35°C~+70°C(Refer to 5.3)
- The atmosphere condition:≤95%
- Pollution degree:II
- Altitude:≤2000m(if exceed 2000m,Refer to 5.4)

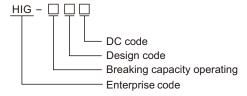
Technical data

Classification

1.Rate Current In: 1A,2A,3A,4A,6A,10A,13A,16A,20A,25A,32A,40A,50A,63A

2.Number of poles: 1P,2P,4P 3.Tripping curves: C Type,(7~10)In

Model meaning





• Electrical and mechancial life

a. Electrical life: > 1500b. Mechancial life: > 20,000

• Rated impulse withstand voltage Uimp:4KV

(28-32)℃ ambient temperature over-current protection feat ures.

Test	Test current	Initial state	Time limit for tripping or not tripping	Expected result	Remarks		
а	1.05ln	Cold state	t≤1h	Not tripping			
b	1.30In	Right after test number a	t < 1h	Tripping	The current is rising within 5s		
С	7In	Cold state	t≤0.2s	Not tripping	The current is fishing within 35		
d	10In	Cold state	t < 0.1s	Tripping			

Note: The terminology"Cold state"means that the test is performed at the base calibration temperature with no load prior to the test.

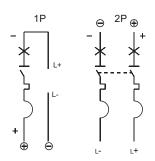
Temperature derating

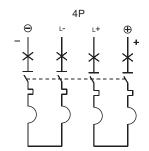
Batad summer (A)			Tem	perature co	us operatio	nal tempera	ture.					
Rated current (A)	-35℃	-30°C	-20℃	-10℃	0℃	10℃	20℃	30℃	40°C	50°C	60°C	70℃
1	1.3	1.26	1.23	1.19	1.15	1.11	1.05	1	0.96	0.93	0.88	0.83
2	2.6	2.52	2.46	2.38	2.28	2.2	2.08	2	1.92	1.86	1.76	1.66
3	3.9	3.78	3.69	3.57	3.42	3.3	3.12	3	2.88	2.79	2.64	2.49
4	5.2	5.04	4.92	4.76	4.56	4.4	4.16	4	3.84	3.76	3.52	3.32
6	7.8	7.56	7.38	7.14	6.84	6.6	6.24	6	5.76	5.64	5.28	4.98
10	13.2	12.7	12.5	12	11.5	11.1	10.6	10	9.6	9.3	8.9	8.4
13	17.16	16.51	16.25	15.6	14.95	14.43	13.78	13	12.48	12.09	11.57	10.92
16	21.12	20.48	20	19.2	18.4	17.76	16.96	16	15.36	14.88	14.24	13.44
20	26.4	25.6	25	24	23	22.2	21.2	20	19.2	18.6	17.8	16.8
25	33	32	31.25	30	28.75	27.75	26.5	25	24	23.25	22.25	21
32	42.56	41.28	40	38.72	37.12	35.52	33.93	32	30.72	29.76	28.16	26.88
40	53.2	51.2	50	48	46.4	44.8	42.4	40	38.4	37.2	35.6	33.6
50	67	65.5	63	60.5	58	56	53	50	48	46.5	44	41.5
63	83.79	81.9	80.01	76.86	73.71	70.56	66.78	63	60.48	58.9	55.44	52.29

Altitude derating

Tripping type	Rated current	Cu	rrent correction fac	For example	
In (A)	In (A)	≤2000	2000~3000m	≥3000m	roi example
С	1,2,3,4,6,10,13, 16,20,32,40,50,63	1	0.9	0.8	Rated current of 10A products rated current derating 2500m:0.9×10=9A

• DC application wiring diagram shown in Figure 2





Wiring diagram description:

1. ⊕ Positive ⊝ Negative

2. L+ Load positive L- Load negative

3. Prohibit power reversed

4. Rated voltage: 1P:250V, 2P:500V, 4P:1000V

5. Strictly forbidden to remove the four poles products of sealing plug wiring operation.

Residual Current Circuit Breaker

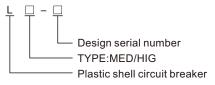
RCCB(LMED-A)



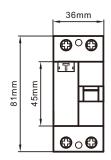
Product advantage

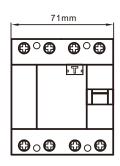
- Ambient air temperature: ambient air temperature -5 degrees -40 degrees, average no more than 35 degrees within 24 hours.
- Altitude: the altitude of the installation site does not exceed 2000m.
- Atmospheric conditions: The relative humidity of the air at the installation site does not exceed 50% at a maximum temperature of 40 degrees, and the relative humidity does not exceed 90% at a minimum temperature of not more than 20%.
- Installation method: using standard Din-rail installation.
- Pollution level: Level II.
- Installation conditions: The external magnetic field of the installation site should not exceed 5 times of the geomagnetic field in any direction. The leakage circuit breaker is generally installed vertically, the handle is upwardly connected to the power supply position, and the installation site should have no significant impact and vibration.
- Wiring method: tighten the wiring with screws.

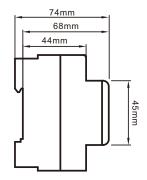
Model meaning



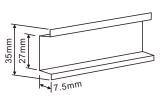
Outline dimension







Installation







Туре				LMED-A/LHIG-A
No of poles				2,4
Туре				Eletronic/Electro-Magnetic
Rated current	In	Α		25,32,40,63
Rated residual current	lΔ	Ма		30,100, 300
Tripping range	lΔ	Ма		0,5-1 x l∆n
Rated frequency		Hz		50-60
Type class				AC/A/S
Rated voltage	Ue	V	Ac	240
Rated insulation voltage	Ui	V		500
Rated impulse withstand voltage	Uimp	Kv		4.5
Rated short circuit capacity		Α		6000
Electrical life	Ope.	V	230	4000
Mechanical life	Ope.			20000
Degree of protection				IP 20(IP 40)
Ambient operational temperature		°C		-25/+70
Storage temperature		°C		-40/+75
Fixing (en 60715)				35mm DIN rail
Connection cross section (min/max)		mm²		1,5-35

Residual Current Circuit Breaker

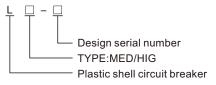
RCCB(LMED-B)



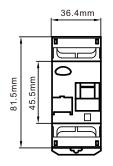
Product advantage

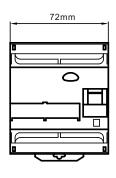
- Ambient air temperature: ambient air temperature -5 degrees -40 degrees, average no more than 35 degrees within 24 hours.
- Altitude: the altitude of the installation site does not exceed 2000m.
- Atmospheric conditions: The relative humidity of the air at the installation site does not exceed 50% at a maximum temperature of 40 degrees, and the relative humidity does not exceed 90% at a minimum temperature of not more than 20%.
- Installation method: using standard Din-rail installation.
- Pollution level: Level II.
- Installation conditions: The external magnetic field of the installation site should not exceed 5 times of the geomagnetic field in any direction. The leakage circuit breaker is generally installed vertically, the handle is upwardly connected to the power supply position, and the installation site should have no significant impact and vibration.
- Wiring method: tighten the wiring with screws.

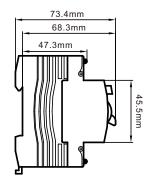
Model meaning



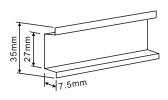
Outline dimension







Installation



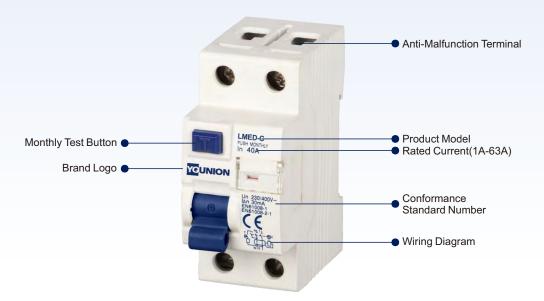




Туре				LMED-B/LHIG-B
No of poles				2,4
Туре				Eletronic/Electro-Magnetic with LED
Rated current	In	Α		25,32,40,63
Rated residual current	lΔ	Ма		30,100, 300
Tripping range	lΔ	Ма		0,5-1 x l∆n
Rated frequency		Hz		50-60
Type class				AC/A/S
Rated voltage	Ue	V	Ac	240
Rated insulation voltage	Ui	V		500
Rated impulse withstand voltage	Uimp	Kv		4.5
Rated short circuit capacity		Α		6000
Electrical life	Ope.	V	230	4000
Mechanical life	Ope.			20000
Degree of protection				IP 20(IP 40)
Ambient operational temperature		°C		-25/+70
Storage temperature		°C		-40/+75
Fixing (en 60715)				35mm DIN rail
Connection cross section (min/max)		mm²		1,5-35

Residual Current Circuit Breaker

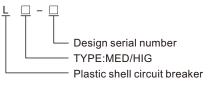
RCCB(LMED-C)



Product advantage

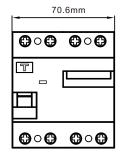
- Ambient air temperature: ambient air temperature -5 degrees -40 degrees, average no more than 35 degrees within 24 hours.
- Altitude: the altitude of the installation site does not exceed 2000m.
- Atmospheric conditions: The relative humidity of the air at the installation site does not exceed 50% at a maximum temperature of 40 degrees, and the relative humidity does not exceed 90% at a minimum temperature of not more than 20%.
- Installation method: using standard Din-rail installation.
- Pollution level: Level II.
- Installation conditions: The external magnetic field of the installation site should not exceed 5 times of the geomagnetic field in any direction. The leakage circuit breaker is generally installed vertically, the handle is upwardly connected to the power supply position, and the installation site should have no significant impact and vibration.
- Wiring method: tighten the wiring with screws.

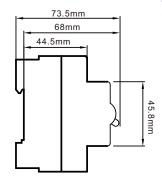
Model meaning



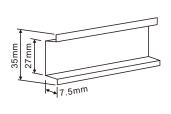
Outline dimension

82mm 45.8mm





Installation







Туре				LMED-C/LHIG-C
No of poles				2,4
Туре				Eletronic/Electro-Magnetic
Rated current	ln	Α		25,32,40,63
Rated residual current	lΔ	Ма		30,100, 300
Tripping range	lΔ	Ма		0,5-1 x l∆n
Rated frequency		Hz		50-60
Type class				AC/A/S
Rated voltage	Ue	V	Ac	240
Rated insulation voltage	Ui	V		500
Rated impulse withstand voltage	Uimp	Kv		4.5
Rated short circuit capacity		Α		6000
Electrical life	Ope.	V	230	4000
Mechanical life	Ope.			20000
Degree of protection				IP 20(IP 40)
Ambient operational temperature		°C		-25/+70
Storage temperature		°C		-40/+75
Fixing (en 60715)				35mm DIN rail
Connection cross section (min/max)		mm²		1,5-35

Residual Current Circuit Breaker

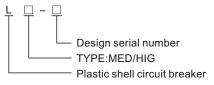
RCCB(LMED-D)



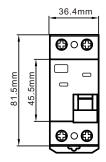
Product advantage

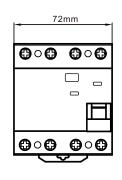
- Ambient air temperature: ambient air temperature -5 degrees -40 degrees, average no more than 35 degrees within 24 hours.
- Altitude: the altitude of the installation site does not exceed 2000m.
- Atmospheric conditions: The relative humidity of the air at the installation site does not exceed 50% at a maximum temperature of 40 degrees, and the relative humidity does not exceed 90% at a minimum temperature of not more than 20%.
- Installation method: using standard Din-rail installation.
- Pollution level: Level II.
- Installation conditions: The external magnetic field of the installation site should not exceed 5 times of the geomagnetic field in any direction. The leakage circuit breaker is generally installed vertically, the handle is upwardly connected to the power supply position, and the installation site should have no significant impact and vibration.
- Wiring method: tighten the wiring with screws.

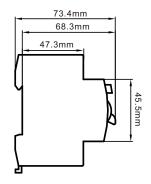
Model meaning



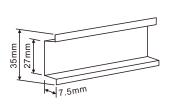
Outline dimension







Installation



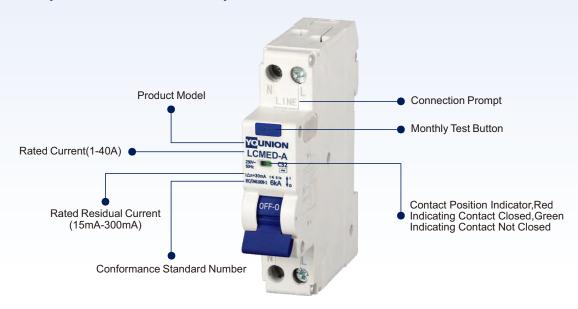




Туре				LMED-D/LHIG-D
No of poles				2,4
Туре				Eletronic/Electro-Magnetic
Rated current	In	Α		25,32,40,63,80,100
Rated residual current	lΔ	Ма		30,100, 300
Tripping range	lΔ	Ма		0,5-1 x l∆n
Rated frequency		Hz		50-60
Type class				AC/A/S
Rated voltage	Ue	V	Ac	240
Rated insulation voltage	Ui	V		500
Rated impulse withstand voltage	Uimp	Kv		4.5
Rated short circuit capacity		Α		6000
Electrical life	Ope.	V	230	4000
Mechanical life	Ope.			20000
Degree of protection				IP 20(IP 40)
Ambient operational temperature		°C		-25/+70
Storage temperature		°C		-40/+75
Fixing (en 60715)				35mm DIN rail
Connection cross section (min/max)		mm²		1,5-35

Residual Current Circuit Breaker With Overcurrent Protection

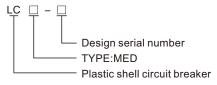
RCBO(LCMED-A Electronic)



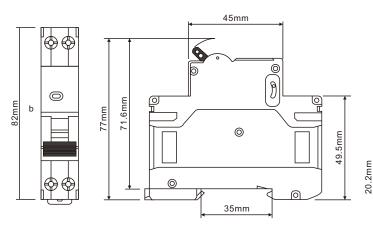
Product advantage

- High frame level 1P+N double breaking point(18mm width, module up to 40A),high breaking capacity(up to 6kA).
- Terminal with error protected terminal blocks, and higher safety with contact position indicating window.
- Current limited contact system,magnetic blow-out type arc extinguishing device,can avoid products and equipment from large short circuit current, and improve the arc extinguishing ability of products, then make sure the enhancement of breaking capacity.
- The shell and funcion keys are all made by PA66 nylon which with high flame retardant, high temperature resistance, impact resistant plastics.
- Innovative appearance, reasonable structure and with multiple patent protection. The products with overload, short circuit, leakage protection functions.

Model meaning

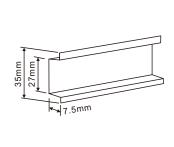


Outline dimension



Installation

18mm





Product model				LCMED-A				
Pole number				1P+N				
Shelf rated current			A	40				
Technical parameter	S							
Rated working voltag		Ue	VAC	230				
Rated current			Α	1 2 3 4 6 10 16 20 25 32 40				
Rated residual curre	nt	l∆n	mA	15 30 50 100 200 300				
Type class				A/AC				
Rated insulation volt	age			500				
Rated impulse withsta	_	Uimp	kV	4				
Туре				/				
Breaking capacity or	perating	lcn	kA	6				
Breaking capacity fo	_		%Icn	100%				
Curve type	100		,0.0	ВС				
Release type				Thermomagnetic				
itelease type		Actual	average	20000				
Service life	Mechanical			8500				
(O~CO)		Standard value Actual average		10000				
Electrical			rd value	1500				
Control and indication		Stariua	iu value	1300				
	111							
Auxiliary contact Alarm contact								
Shunt release								
Under release								
Voltage release								
Connection and insta								
Protection grade	Alls			Ip40				
	Connec	tion port		lp20				
Handle lock				ON/OFF Position				
Connection ability			m ²	1~10				
Ambient temperature		٥	С	- 30~+70				
Humidity and heat re	sistance			Level 2				
Altitude		ı	m	2000				
Relative humidity of	air			+20 95% +40 50%				
Pollution grade				3				
Installation environm	nent			Without significant vibration and impact				
Installation category				II class				
Installation mode			35mm DIN rail					
Shape dimensions(n	nm)		а	18				
W*H*D)		b	82				
., ., .	w u.n		С	71.6				
Weight			g	118				
■Standard settings	□Optiona	/None	•					

Residual Current Circuit Breaker With Overcurrent Protection

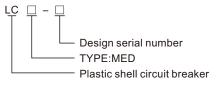
RCBO(LCMED-B Electronic/Electro-Magnetic)



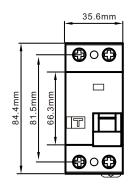
Product advantage

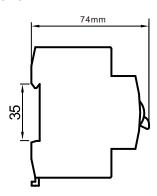
- LCMED-B residual current circuit breaker (hereinafter referred to as residual current circuit breaker) is mainly used in the circuit of alternating current 50Hz, rated voltage 240V, rated current 40A.
- Residual current circuit breaker can quickly cut off the fault power supply
 in a very short time, protect the safety of the person and the electrical
 equipment, and has the function of overload Short Circuit Protection. It is
 also suitable for switching off electrical installations and lighting circuits
 infrequently under normal conditions, especially for industrial and
 commercial lighting distribution systems.
- Compliance Standard: IEC / EN 61009-1.

Model meaning

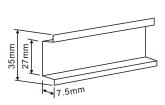


Outline dimension



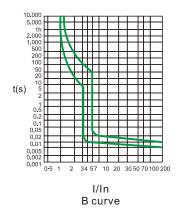


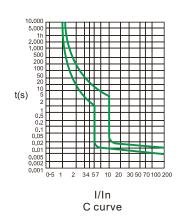
Installation



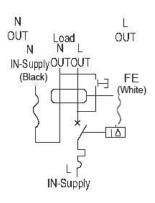


Characteristic Curve





Wiring Diagram



Overload Current Protection Characteristics

Test procedure	Туре	Test current	Intital state	Tripping or Non-tripping Time limit	Expected result	Remark
а	B,C	1.13ln	cold	t≥1h	no tripping	
b	B,C	1.45In	after test	t<1h	tripping	Current in 5s up to stable value
С	B,C	2.55	cold	1s <t<60s(in≤32a) 1s<t<120s(in>32A)</t<120s(in></t<60s(in≤32a) 	tripping	
d	B,C	3In 5In 10In	cold	t≥1.0s	no tripping	Turn on the closed auxiliary switch to open the current
е	B,C	3In 5In 10In	cold	t<0.1s	tripping	Turn on the closed auxiliary switch to open the current

The terminology"cold state"refes to that no load is carried before testing at the reference setting temperature.

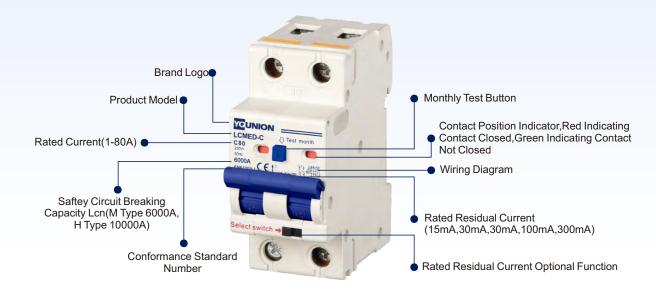
Residual Current Action Breaking Time

Type	In/A	I∆n/A		Residual current(I \triangle) is corresponding to the following breaking time(s)					
Туре	III/A	IZII/A	I∆n	2 l∆n	5 l∆n	5A,10A,20A,50A,100A,200A,500A	l∆t		
general type	any value	any value	0.3	0.15	0.04	0.04	0.04	Max break-time	

The general type RCBO whose current I \triangle n is 0.03mA or less can use 0.25A in stead of 5 I \triangle n.

Residual Current Circuit Breaker With Overcurrent Protection

Adjustable RCBO(LCMED-C 2P Electronic)



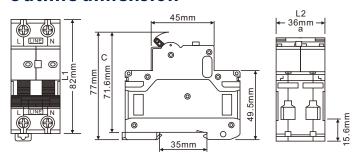
The main technical parameters

- The main techniacl parameters accord with GB16917-1 standard parameters.
- Rated breaking capacity 10KA. Mechanical life 20000 times. Electrical life 10000 times
- With residual current protection, short circuit protection, overload protection, leakage tripping function can be put into use, exit with short circuit.
- Overload protection tripping window indication function, leakage protection can enter the locking state when the power is not allowed to be cut off or when the fault is over hauled, the protector loses the leakage protection tripping function.
- Material with V-0 grade flame-retardant property is selected.

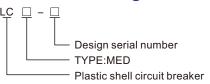
Product advantage

- High breaking capacity, shrong practicability of accessories.
- Combined terminal with touch protection and red and green safety indication.higher safety
- Current limiting contact system to avoid short circuit current of products and equipment, Increase the service life of monthly equipment.
- Shell and some functional parts are inported and exported high flame retardant,hightemperature resistance,impact resistant plastics made o.
- The appearance is beautiful, the volume is small, the width is only 36mm.
- Leakage function may withdraw, suitable each kind of place.
- May make the rated leakoge action current adjustable.
- L pole N pole to have the overload protection function.

Outline dimension



Model meaning



Applications

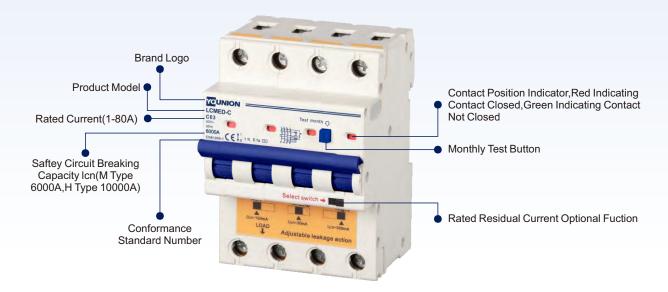




Product model				LCMED-C			
Pole number				2P			
Shelf rated current		,	A	80			
Technical parameter	'S						
Rated working voltage Ue VAC		VAC	230				
Rated current	,	In	Α	1 2 3 4 6 10 16 20 25 32 40 50 63 80			
Rated residual curre	Rated residual current I∆n mA		mA	10 15 30 50 100 200 300(Can select residual current)			
Type class				A/AC			
Rated insulation voltage			500				
Rated impulse withsta	_	Uimp	kV	4			
Туре	and voltage	ор	100	M/H			
Breaking capacity or	perating	Icn	kA	6/10			
Breaking capacity fo	_		%lcn	100%/70%			
	rce	103	/01CII	B C D			
Curve type							
Release type		A - 1 - 1		Thermomagnetic			
	Mechanical		average	20000			
Service life (O~CO)			rd value	8500			
(0 100)	Electrical		average	10000			
	Standard value		rd value	1500			
Control and indication	on						
Auxiliary contact							
Alarm contact							
Shunt release							
Under release							
Voltage release							
Connection and insta	allation						
Protection grade	Alls	ides		lp40			
r rotostion grado	Connec	tion port	İ	lp20			
Handle lock				ON/OFF Position			
Connection ability		m	m²	1~35			
Ambient temperature	Э	٩	С	- 30~+70			
Humidity and heat re	sistance			Level 2			
Altitude		r	m	2000			
Relative humidity of	air			+20 95% +40 50%			
Pollution grade			3				
Installation environment			Without significant vibration and impact				
Installation category			II class				
Installation mode			35mm DIN rail				
Chana dinescribes (а	36			
Shape dimensions(n	nm)		b	82			
W*H*D			С	72.6			
Weight		!	g	210.5			
■Standard settings	□Optiona	/None	9				

Residual Current Circuit Breaker With Overcurrent Protection

Adjustable RCBO(LCMED-C 4P Electronic)



UNB2LE series leakage circuit breaker is suitable for AC 50HZ60HZ rated voltage AC400.415V, rated current to 80A circuit, as personal shock, equipment leakage protection, and has overload, short circuit, leakage protection function, and can be customized with over- voltage protection, Leakage action current adjustable product, also can be used as the line of infrequent conversion.

Product advantage

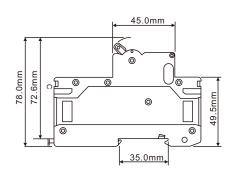
- Ambient air temperature: ambient air temperature average not exceeding 35 degrees and degrees within 24H.
- Altitude: altitude of installation site not exceeding 2000m.
- Atmospheric conditions: The air relative humidity of the installation place does not exceed 50% 4 at the maximum temperature of 40 hours above 20:00 the relative humidity does not exceed 90%.
- Installation method: adopt standard guideway installation(TH35-7.5).
- Pollution class: Ill class
- Installation condition: installation place The external magnetic field should not exceed 5 times the geomagnetic field in any direction, Leakage circuit breaker is generally installed vertically, the handle is connected to the power supply position, and there should be no significant impact and vibration in the installation place.
- · Connection mode: screw connection.

Model meaning

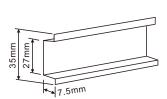


Outline dimension

4P 72mm 2P 54mm a



Installation





Product model				LCMED-C				
Pole number				4P				
Shelf rated current			A	80				
Technical parameter	·s							
Rated working voltage Ue VAC		VAC	400					
Rated current	3 -	In	Α	1 2 3 4 6 10 16 20 25 32 40 63 80				
Rated residual curre			mA	10 15 30 50 100 200(Can select residual current)				
Type class				A/AC				
Rated insulation volt	ane			500				
Rated impulse withsta		Uimp	kV	4				
	and voltage	Omip	IX V	M/H				
Type	acratina	Icn	kA	6/10				
Breaking capacity of	_		%lcn					
Breaking capacity fo	rce	105	701CII	100%/70%				
Curve type				B C				
Release type				Thermomagnetic				
	Mechanical		average	20000				
Service life		Standard value		8500				
(O~CO)	Electrical	Actual average		10000				
		Standard value		1500				
Control and indication	on							
Auxiliary contact								
Alarm contact								
Shunt release	Shunt release							
Under release	Under release							
Voltage release								
Connection and insta	allation							
Protection grade	Alls	ides		lp40				
Frotection grade	Connec	tion port	t	lp20				
Handle lock				ON/OFF Position				
Connection ability		m	m²	1~35				
Ambient temperature	е	٥	C	- 30~+ 7 0				
Humidity and heat re	esistance			Level 2				
Altitude		r	m	2000				
Relative humidity of	air			+20 95% +40 50%				
Pollution grade				3				
Installation environment			Without significant vibration and impact					
Installation category			II class					
Installation mode			35mm DIN rail					
			а	72				
Shape dimensions(n	nm)		b	99				
W*H*D			С	72.6				
Weight			g	462.5				
■Standard settings	□Ontiona	/None		102.0				

UNION ELECTRICS Surge Protective Device

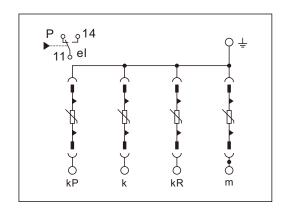
UN-A15/A25



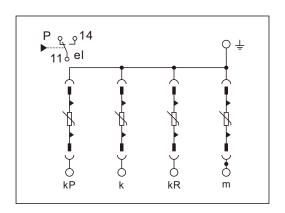
Product advantage

- Multilayer spark gap deviceIntegrated surge protector unit
- Highest to withstand 50kA(10/350us)lightning shock
- Action response time is less than 100ns

L1, L2, L3, N, PE(4+0 circuit)

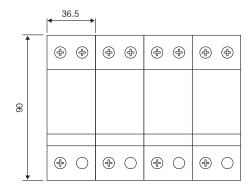


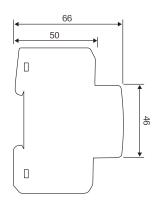
L1, L2, L3, N, PE(3+1 circuit)





			UN-	A15			UN-	A25	
IEC TYPE			I,	T1			I,	T1	
SPD TYPE			Swtic	h type			Swtic	h type	
SPECS		1P	2P	3P	4P	1P	2P	3P	4P
Nominal voltage(Un)		220	V AC	380	√ AC	220	√AC	380	V AC
	L-N	275V AC	275V AC	385V AC	385V AC	275V AC	275V AC	385V AC	385V AC
Maximum Continuous Operating Voltage(Uc)	N-PE	275V AC	275V AC		385V AC	275V AC	275V AC		385V AC
	L-PEN	275V AC		385V AC		275V AC		385V AC	
Nominal Discharge Current(In)8/20 µ s	L-N		15	kA			25	kA	
Maximum Discharge Cureent(Imax)8/20 μ s	N-PE		15	kA			25	kA	
Voltage Protection Level(Up)8/20 μ s	L-N		1.8	kV			2.0)kV	
	N-PE		1.8	kV			2.0)kV	
Short-circuit Current Rating(Iscpv)			25	kA			25	kA	
Response Time	L-N		≤2	5ns			≤2	5ns	
Back-up protection for SCB option			WRSC	B-100			WRSC	B-100	
Indication		Gree	n:Norma	l Red : Fa	ailure	Gree	n:Norma	ıl Red : Fa	ailure
Connection cross-section			4-35	mm²			4-35	mm²	
Din Rail Installation		35mm	(EN5002	2/DIN46	277-3)	35mm	(EN5002	2/DIN46	277-3)
Temperature range			-40~	70℃			-40~	70℃	
Shell Material		F	Plastic to	JL91V-0	0	I	Plastic to	UL91V-()
Protect Rating			lp:	20			lp	20	
Standard		IEC	61643-1	/ GB188	02.1	IEC	61643-1	/ GB188	02.1
Remote communication alarm		Oper	n/Close Co	ntact Term	inals	Ope	n/Close Co	ntact Term	inals
Remote communication wiring		Maximu	ım 1.5mm	single/flexi	ble wire	Maximu	ım 1.5mm	single /flex	ible wire





Surge Protective Device

UN-B80/B100



Product advantage

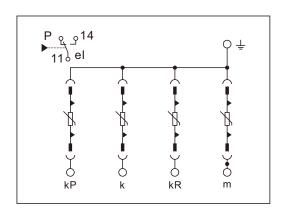
Picture 1

- Consistent pluggability(even for N/PEspark gap)
- Own developed technology to manufacture MOV
- Thermal disconnect device for each individual connector
- Optical, mechanical status indication for the individual arresters
- Din rail mountable (35 mm)

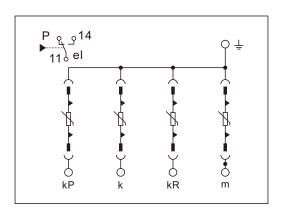
Picture 2

- With or without floating remote indication contact
- Suitable for almost all networkconfigurations
- More stable structure and support larger current

L1, L2, L3, N, PE(4+0 circuit)

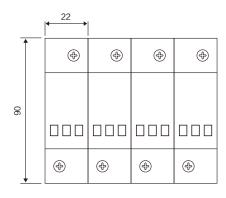


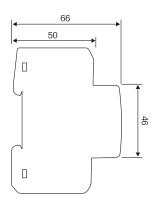
L1, L2, L3, N, PE(3+1 circuit)





			UN-	B80			UN-B100	
IEC TYPE			II,	T2			II, T2	
SPD TYPE			Limiting	Voltage		Lir	miting Volta	ge
SPECS		1P	2P	3P	4P	4P	1+NPE	3+NPE
Nominal voltage(Un)		220	√ AC	380	√ AC	380V AC	220V AC	380V AC
	L-N	275V AC	275V AC	385V AC	385V AC	385V AC	275V AC	385V AC
Maximum Continuous Operating Voltage(Uc)	N-PE	275V AC	275V AC		385V AC	385V AC	255V AC	255V AC
	L-PEN	275V AC		385V AC				
Nominal Discharge Current(In)8/20 μ s	L-N		40	kA			60kA	
Maximum Discharge Cureent(Imax)8/20 μ s	N-PE		80	kA			100kA	
Voltage Protection Level(Up)8/20 μ s	L-N		2.5	kV			2.5kV	
	N-PE		2.5	kV			2.5kV	
Short-circuit Current Rating(Iscpv)			25	kA			25kA	
Response Time	L-N		≤2	5ns			≤25ns	
Back-up protection for SCB option			WRSC	B-100		١	WRSCB-100)
Indication		Gree	n:Norma	l Red : Fa	ailure	Green:N	Normal Red	:Failure
Connection cross-section			4-35	mm²			4-35mm ²	
Din Rail Installation		35mm	(EN5002	2/DIN46	277-3)	35mm(EN	N50022/DIN	46277-3)
Temperature range			-40~	70℃			-40~70℃	
Shell Material		F	Plastic to	JL91V-0	0	Pla	stic toUL94	V-0
Protect Rating			lp:	20			lp20	
Standard		IEC	61643-1	/ GB188	02.1	IEC 61	643-1 / GB1	8802.1
Remote communication alarm		Oper	n/Close Co	ntact Term	ninals	Open/CI	ose Contact To	erminals
Remote communication wiring			ım 1.5mm		la La condina	M	.5mm single /f	





Surge Protective Device

UN-C40



Product advantage

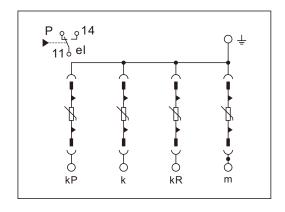
Picture 1

- Consistent pluggability(even for N/PEspark gap)
- Own developed technology to manufacture MOV
- Thermal disconnect device for each individual connector
- Optical, mechanical status indication for the individual arresters
- Din rail mountable (35 mm)

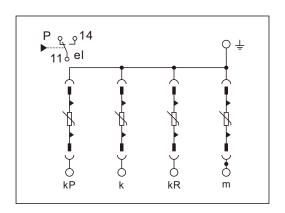
Picture 2

- With or without floating remote indication contact
- Suitable for almost all networkconfigurations
- More stable structure and support larger current

L1, L2, L3, N, PE(4+0 circuit)

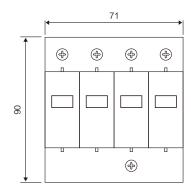


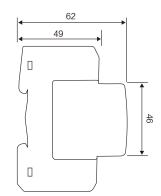
L1, L2, L3, N, PE(3+1 circuit)





					UN-	C40		
IEC TYPE			II,	T1			II, T1	
SPD TYPE			Limiting	Voltage		Lir	miting Volta	ge
SPECS		1P	2P	3P	4P	4P	1+NPE	3+NPE
Nominal voltage(Un)		220	√ AC	380	V AC	380V AC	220V AC	380V AC
	L-N	275V AC	275V AC	385V AC	385V AC	385V AC	275V AC	275V AC
Maximum Continuous Operating Voltage(Uc)	N-PE	275V AC	275V AC		385V AC	385V AC	255V AC	255V AC
	L-PEN	275V AC		385V AC				
Nominal Discharge Current(In)8/20 μ s	L-N		20	kA			20kA	
Maximum Discharge Cureent(Imax)8/20 μ s	N-PE		40	kA			40kA	
Voltage Protection Level(Up)8/20 μ s	L-N		1.8	skV			1.8kV	
	N-PE		1.8	skV			1.5kV	
Short-circuit Current Rating(Iscpv)			25	kA			25kA	
Response Time	L-N		≤2	5ns			≤25ns	
Back-up protection for SCB option			WRS	CB-40			WRSCB-40	
Indication		Gree	n:Norma	I Red : Fa	ailure	Green:N	Normal Red	: Failure
Connection cross-section			4-35	mm²			4-35mm ²	
Din Rail Installation		35mm	(EN5002	2/DIN46	277-3)	35mm(EN	N50022/DIN	46277-3)
Temperature range			-40~	70℃			-40~70℃	
Shell Material		F	Plastic to	UL91V-0	0	Pla	stic toUL94	V-0
Protect Rating			lp	20			lp20	
Standard		IEC	61643-1	/ GB188	02.1	IEC 61	643-1 / GB1	8802.1
Remote communication alarm		Oper	n/Close Co	ntact Term	ninals	Open/CI	ose Contact To	erminals
Remote communication wiring		Maximu	ım 1.5mm	single/flexi	ible wire	Maximum 1	.5mm single /f	flexible wire





UNION ELECTRICS Surge Protective Device

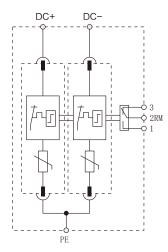
UN-T2-DC

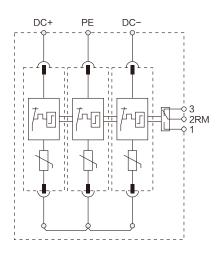


For installation at LPZ O_A-1 or higher, protecting d.c power supply system from surge damages. Applied in pluggable SPD Class I+II(Class B+C) for various d.c.power supply system. Designed according to IEC 61643-1/GB 18802.1.

Product advantage

- Pluggable module, easy for installation and main tenance
- High discharge capacity, quick response
- Double thermal disconnection devices, provide more reliable protection
- Multifunctional terminals for connection of conductorsand busbars
- Green window will change when fault occurs,also provide remote alarm terminal

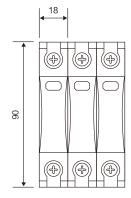


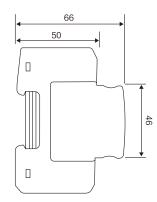




Туре	UN-T2-DC / 2P
Rated voltage (max.continuous a.c.voltage) [Uc]	800VDC / 1000VDC / 1200VDC
Nominal discharge current (8/20) [In]	20kA
Maximum discharge current [Imax]	40kA
Voltage protection level [U _P]	3.2kV / 4.0kV / 4.4kV
Response time [ta]	≤25ns
Max.backup fuse	125A gL/gG
Operating temperature range [Tup]	-40+60
Cross-sectional area	1.5mm ² ~2.5mm ² solid / 35mm ² flexible
Mounting on	35mm DIN rail
Enclosure material	Purple (module) / light gray (base) thermoplastic, UL94-V0
Dimension	1 mods
Test standards	IEC 61643-1; GB 18802.1; YD/T 1235.1
Certification	CE ROHS ISO9001 CQC TUV
Type of remote signalling contact	Switching contact
Switching capacity a.c	250V / 0.5A
Switching capacity d.c	250V / 0.1A; 125v/0.2A; 75v/0.5A
Cross-sectional area for remote signalling contact	Max. 1.5mm ² solid / flexible

Туре	WR-T1T2-DC / 2P	WR-T1T2-DC / 3P
Packing unit	1pc(s)	1pc(s)
Weight	206g	283g





UNION ELECTRICS Surge Protective Device

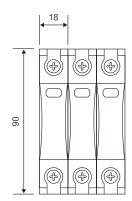
UN-T1T2-DC

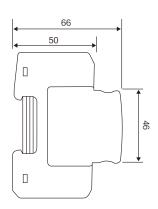


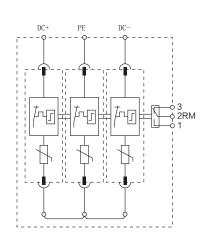
For installation at LPZ O_B-1 or higher, protecting d.c power supply system from surge damages. Applied in pluggable SPD Class II(Class C) for various d.c.power supply system. Designed according to IEC 61643-1/GB 18802.1.

Product advantage

- Pluggable module, easy for installation and main tenance
- High discharge capacity, quick response
- Double thermal disconnection devices, provide more reliable protection
- Multifunctional terminals for connection of conductorsand busbars
- Green window will change when fault occurs, also provide remote alarm terminal



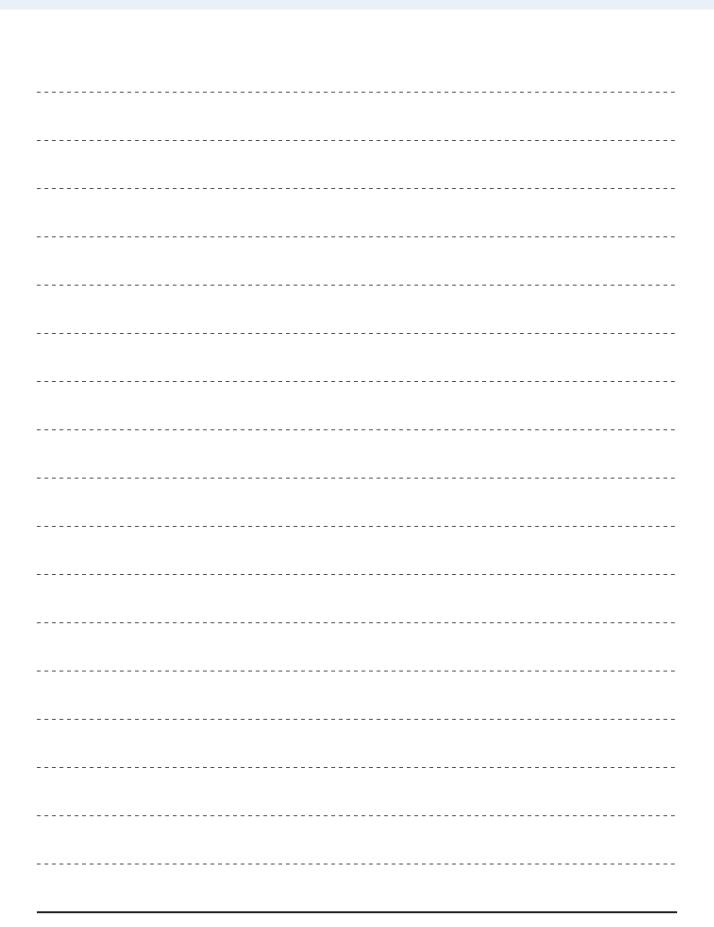






Туре	UN-T1T2-DC
Rated voltage (max.continuous a.c.voltage) [Uc]	800VDC / 1000VDC / 1200VDC
Lightning impulse current (10/350) [IImp]	7kA
Nominal discharge current (8/20) [In]	20kA
Maximum discharge current [Imax]	50kA
Voltage protection level [U _P]	4.2kV / 4.5kV / 5.0kV
Follow current extinguishing capability at U _c [If]	32A fuse will not be triggered at 2kArms 255V
Response time [tA]	≤100ns
Max.backup fuse(L)	200A gL/gG
Max.backup fuse(L-L')	125A gL/gG
TOV voltage	355V / 5sec
Operating temperature range (parallel wiring) [Tup]	-40+80
Operating temperature range (through wiring) [Tus]	-40+60
Cross-sectional area	35mm ² solid / 50mm ² flexible
Mounting on	35mm DIN rail
Enclosure material	Purple (module) / light gray (base) thermoplastic, UL94-V0
Dimension	2 mods
Test standards	IEC 61643-1; GB 18802.1; YD/T 1235.1
Certification	CE ROHS ISO9001 CQC TUV
Type of remote signalling contact	Switching contact
Switching capacity a.c	250V / 0.5A
Switching capacity d.c	250V / 0.1A; 125v/0.2A; 75v/0.5A
Cross-sectional area for remote signalling contact	Max. 1.5mm ² solid / flexible

Туре	WR-T1T2-DC / 3P
Packing unit	1pc(s)
Weight	288g





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