

Kozuka™

Kozuka™



Distributor by

Suruhanjaya Tenaga



CB ISO9001 S CE

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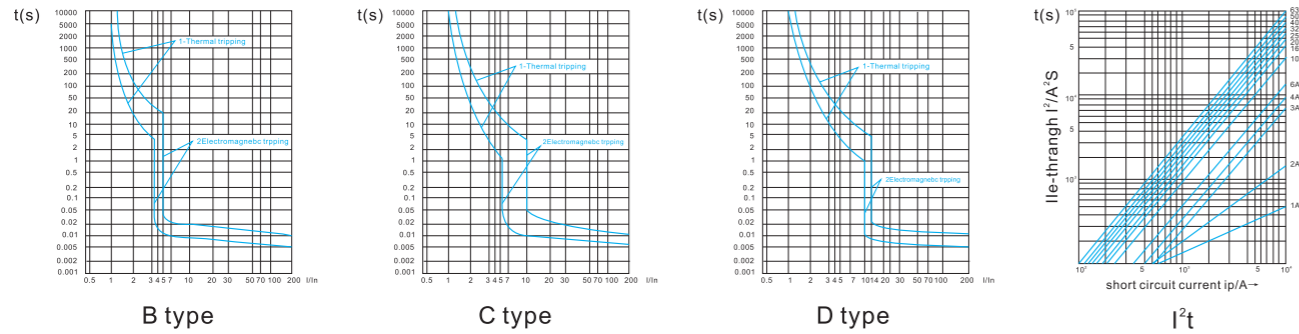
K200s series Miniature Circuit Breaker

TECHNICAL DATA

Standard	Confirming to EN/IEC60898
Breaking capacity	6A-40A 6kA, 50-63A 4.5kA
Protection	Against overload and short circuit
Rated current,In	6、10、16、20、25、32、40、50、63A
Rated voltage	1pole 240/415V AC 50/60Hz 2、3pole 415V AC 50/60Hz Rated insulation voltage Ui:500V Rated impulse withstand voltage Ui mp:6000V Energy limiting class:3
Ambient temperature	-5°Cto+40°Cpursuant to EN/IEC60898
Characteristic	Thermal operating limit:(1.13-1.45) x In Magnetic operating:B:(3-5)x In C:(5-10)x In D:(10-20)x In
Number of poles	1P、2P、3P、
Type of trip	Thermal/magnetic release
Type of terminal	Pin type
Terminal capacity	16mm□flexible or25mm□rigid up to 25A ratings 25mm² flexible or35mm² rigid for 32A to 63A ratings
protection degree	IP20
Installation	Mounting on35mm DIN rail
Width	17.5mm per pole



1. Curves



2. Endurance (operations)

CATEGORY	OPERATIONS	OPERATION FREQUENCY	RATED CURRENT (A)
Electrical endurance	4000	240/h	6~32
Mechanical endurance	10000	120/h	40~63
		240/h	6~63

3. Please refer to table below for temperature compensation correction

In A	Temperature compensation coefficient under various operational temperature									
	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	55°C	60°C	
6	1.20	1.14	1.09	1.05	1.00	0.96	0.80	0.75	0.70	
10~32	1.18	1.12	1.08	1.04	1.00	0.96	0.92	0.88	0.84	
40~63	1.16	1.12	1.08	1.03	1.00	0.9	0.87	0.83	0.80	

4. Wiring

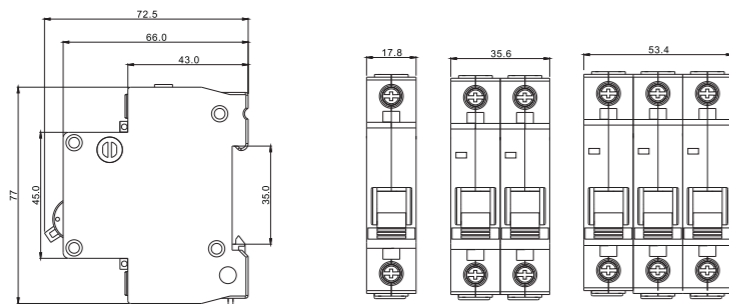
The suitable conductors should be used for connection, see table for relative parameters

RATED CURRENT In (A)	NOMINAL CROSS SECTION AREA (MM²)	TIGHTENING TORQUE (N.M)
6	1	2
10	1.5	2
16、20	2.5	2
25	4	2
32	6	2
40、50	10	2
63	16	2

5. Features

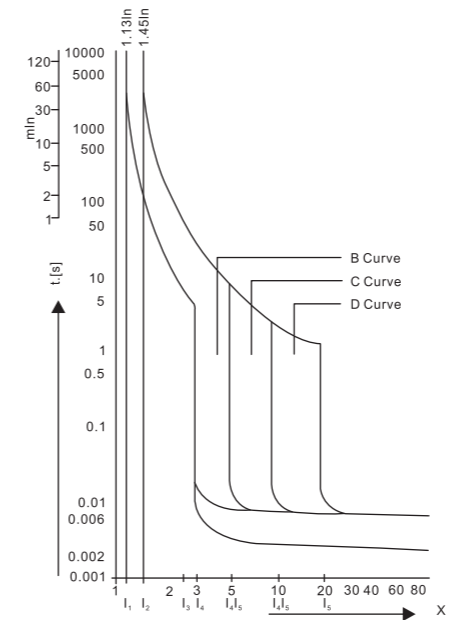
The breaker is characterized by compact design, light weight, elegant appearance, high breaking capacity, swift releasing, long service life, with indicator.

6. Overall and mounting dimensions

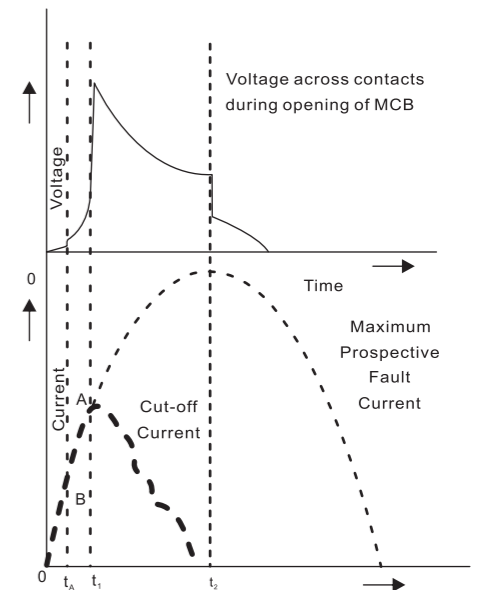


K200s series Miniature Circuit Breaker

K200s Characteristics curves



Current limiting design



K200s Tripping characteristics

Based on the Tripping Characteristics, MCB are available in "B", "C" and "D" curve to suit different types of applications.

"B" Curve: for protection of electrical circuits with equipment that does not cause surge current (lighting and distribution circuit)

Short circuit release is set to (3-5)In

"C" Curve: for protection of electrical circuits with equipment that causes surge current (inductive loads and motor circuits)

Short circuit release is set to (5-10)In

"D" Curve: for protection of electrical circuits which causes high inrush current, typically 12-15 times the thermal rated current

(transformers, X-ray machines etc.)

Short circuit release is set to (10-20)In

As per IEC60898	Thermal tripping		Time limits t	Magnetic tripping		
	No tripping current I ₁	Tripping current I ₂		Hold current I ₄	trip current I ₅	Time limits t
B Curve	1.13×In	1.45×In	≥1h <1h	3×In	5×In	≥0.1s <0.1s
C Curve	1.13×In	1.45×In	≥1h <1h	5×In	10×In	≥0.1s <0.1s
D Curve	1.13×In	1.45×In	≥1h <1h	10×In	20×In	≥0.1s <0.1s
I ₃ =2.55×In						1s<t<60s for In <32A 1s<t<120s for In <32A

K1s series Residual Current Circuit Breaker

TECHNICAL DATA

Standard	Confirming to EN/IEC61008-1
Rated conditional short-circuit current, Inc	6kA
Protection	Ground fault
Rated current, In	40, 63, 100A
Number of poles	2(1+N), 4(3+N)pole
Rated sensitivity currents, IΔn	30, 100, 300mA
Rated residual non-operating current	0.5×I Δ n
Rated impulse withstand voltage Uimp	6000V
Rated voltages	2pole: 240VAC 4pole: 240/415VAC
Protection degree	-25°C~+40°C
Residual current off-time at IΔn	≤0.1s
Rated residual current making & breaking capacity, IΔm	500A for In=40A 630A for In=63, 100A
Type of trip	Electro-magnetic release
Type of terminal	Lug type and pin type
Terminal capacity	Cables up to 35mm ²
Degree of protection	IP20
Installation	35mm DIN rail



1. Life

In	Operating cycles		Operating frequency (operations/h)
	On-load operating cycles	off-load operating cycles	
40, 63, 100	2000	2000	240
	2000	1000	120

2. Breaking time of residual current

In(A)	Breaking time of residual current					5A, 10A, 20A, 50A 100A, 200A, 500A	Max. Breaking time
	I Δ n(A)	I Δ n	2I Δ n	5I Δ n	0.04s		
40, 63, 100	0.03, 0.1, 0.3	0.1s	0.08s	0.04s	0.04s		

3. Wiring

The suitable conductors should be used for connection, see table below for relative parameters.

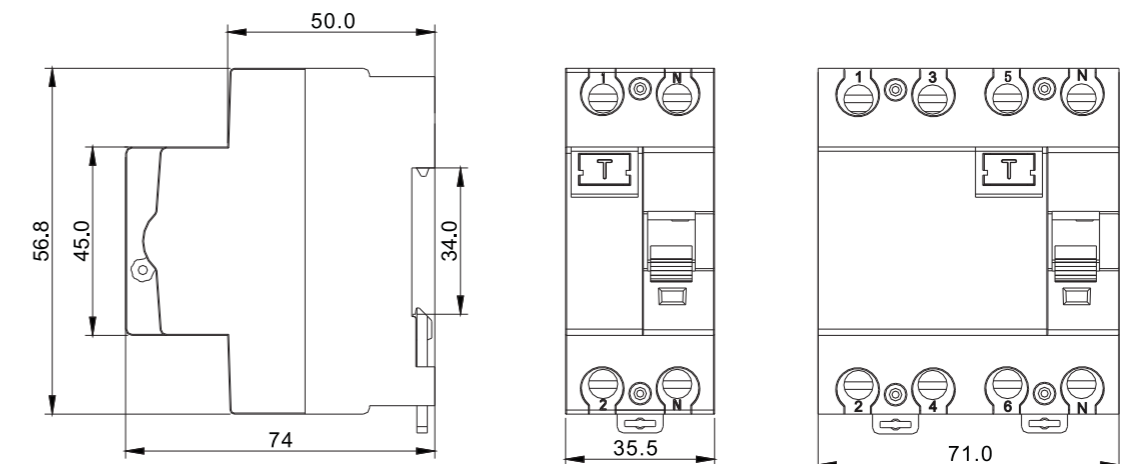
Rated current In (A)	Nominal cross section area of lead (MM ²)	Tightening torque (N·m)
40	10	2.5
63	16	2.5
100	35	3.5

4. Features

when designing residual current devices, manufacturing technology and type of routine tests, the IEC/EN 61008 standards were considered. Important features are:

- Up to date design
- User-friendly connection of conductors and busbars
- Resistance to current surges; unwanted tripping excluded
- Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715
- Additional colour display of main contacts position (red: contacts closed, green: contacts open)

5. Overall and mounting dimensions



Parameters and properties of K1s

Protection

Against Electrocutation

The use of exposed, substandard, badly wired, wrongly connected or damaged equipment as well as frayed or badly repaired cable reduces the safety of an installation and increases the risk of person receiving electric shock.

Electrocution is a passage of current through human body, which is dangerous. The flow of current through human body effects vital functions.

1. Breathing
2. Heartbeat

A correctly chosen RCCB can detect small currents flowing to earth and reduces the risk of electrocution. Effect of electric current through human body has been well researched and following chart summarizes the results:

Effect of electric current through human body has been well researched and following chart summarizes the results:

500mA			Immediate cardiac rest resulting in death
70-100mA			Cardiac fibrillation; the heart begins to vibrate and no longer beats at a steady rate. This situation is dangerous since it is irreversible
20-30mA			Muscle contraction can cause respiratory paralysis
10mA			Muscle contraction: the person remains "stuck" to the conductor
1-100mA			Pricking sensations

However, electrocution should not be viewed in terms of "current" alone but in terms of "contact voltage". A person gets electrocuted by coming in contact with an object that has a different potential from it's own. the difference in potential causes the current to flow through the body.

The human body has known limits:
 -Under normal dry conditions, voltage limit=50V
 -In damp surroundings, voltage limit=25V

Against indirect contact

Over current protection devices like MCB are unable to act promptly on small earth leakage currents. To comply with wiring regulations the earth fault loop impedance in Ohms, multiplied by the rate tripping current of the RCB in amperes must not exceed 50.

Example

For and RCD with a rated tripping current of 30mA, the maximum permissible earth fault loop impedance is calculated as follows:
 $Z_s(\max) = 50 / I_n = 50 / 0.03 = 1.666$

Rated tripping current of the RCD	Maximum permissible earth fault loop impedance in
10mA	5,000
30mA	1,666
100mA	500
300mA	166

Against fire

The majority of fires which occur as a result of faulty wiring are started by current flowing to earth. Fire can be started by fault current of less than lamp.

The normal domestic overload protective device such as a fuse or MCB will not detect such a small current. A correctly chosen RCD will detect this fault current and interrupt the supply, hence reducing the risk of a fire starting.

Parameters and properties of RCCB

Parameters and properties of Residual Current Circuit Breakers

Rated current I_n	Rated voltage U_n	Rated frequency F_n
Maximum permissible current value determined by heat, breaking capacity and terminals that an RCCB can carry. Preferred values: 40, 63, 100,	The rated operational voltage of an RCCB is the voltage value, determined by breaking capacity, clearance and creepage distance and test circuit. Preferred values: 240/415V	The frequency for which the breaking characteristics of and RCCB are designed Preferred values: 40-60Hz.

Alternative Current Sensitive	Pulsating direct current sensitive	Surge current proof
 They react to AC current which, either suddenly applied or slowly arising.	 They react to AC and pulsating DC fault current which reach 0 or almost 0 within one time period of the mains frequency.	 RCCB'S surge capacity. Not tripping at standardized 8/20 μ s surge current waves acc. to VDE 0432 Part 2 with surge current values of up to 240A.

Rated fault current $I_{\Delta n}$	Numbers of poles	Breaking capacity	Temperature resistance
Value of a residual fault current at which the RCCB shall trip. Preferred values: 30, 100, 300mA	Number of current paths which the RCCB can monitor. Preferred values: 2 and 4.	 The function of an RCCB is not impaired by short-circuit current of up to 6.000A provided a back-up fuse is used.	 Suitable for temperatures from -25°C up to 40°C

Surge Capacity
Kv RCCB'S surge capacity. Not tripping at standardized 8/20 μ s surge-current waves acc. to VDE 0432 Part 2 with surge current values of up to 250A

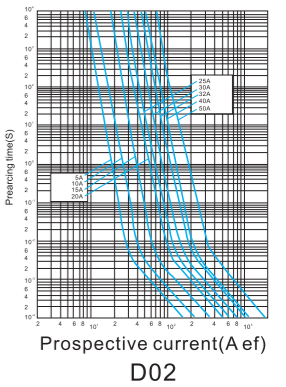
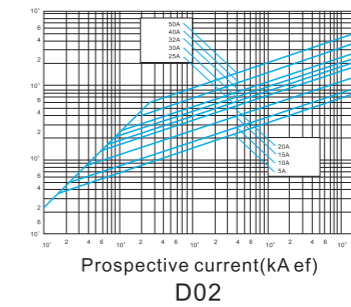
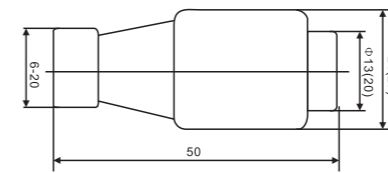
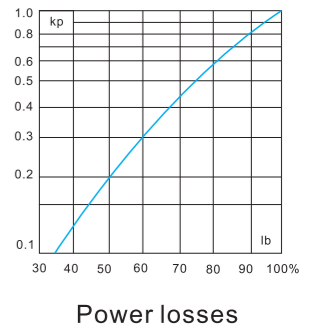
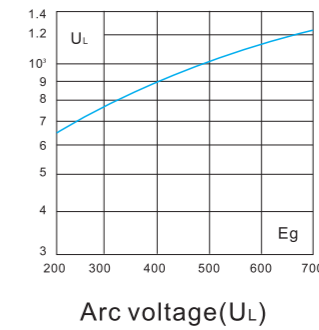
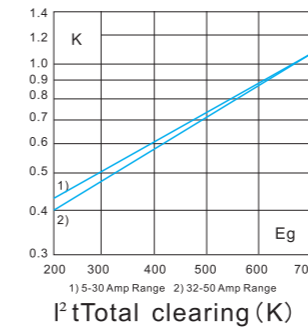
HSF series Switch-Fuse and Links

TECHNICAL DATA

Standard	Confirming to IEC6047-3, IEC60269
Electric ratings	Up to 63A 240V/415V AC 50/60Hz
Utilization category	AC-21A
Rated insulation voltage U_i	U_i 690V
Rated impulse withstand Voltage U_{imp}	4000V
Electric endurance	1500
Mechanical endurance	8500
Operating frequency	120/h
Degree of protection	Ip20



1. Curves

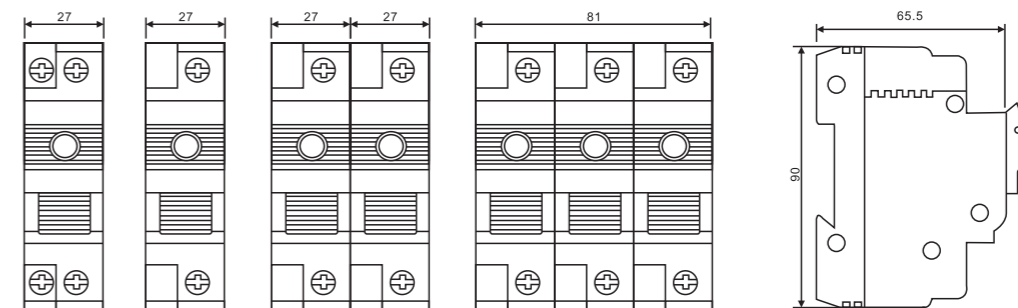


2. Wiring

The suitable conductors should be used for connection

I_n (A)	$I^2 t(A^2 S)$ (V) Prearcing	$I^2 t(A^2 S)$ (KA) Clearing at 600V	Wattloss (W) I_n
1	-	-	-
2	-	-	-
3	-	-	-
4	-	-	-
5	1.6	11	1.5
6	-	-	-
10	3.6	22	4.0
15	10	75	5.5
20	26	180	6.0
25	44	320	7.0
30	58	450	9.0
32	68	600	7.6
40	84	750	8.0
50	200	1800	9.0

3. Overall and mounting dimensions



MSPD series Surge Protective Device

TECHNICAL DATA

Standard	Confirming to IEC61643-1
Protection	Protect electric system and on-loading electrical apparatus from thunder and instantaneous over-voltage
Ambient temperature	-5°C to +45°C
Number of poles	1P+N, 3P+N
Electric ratings	230/400V, AC50/60Hz
Response time	Less than 25ms
On-Off indicating window	White normal function Red functionless, immediate replacement required
Pollution grade	II
Installation class	II
Type of terminal	Pin type
Terminal capacity	Solid wire cross-section is 2.5-25mm ² Stranded wire cross-section is 2.5-16mm ²
Installation	Mounting on 35mm DIN rail
Width	17.5mm per pole
Ground system	"TT, TN-S, TN-C-S" are applicable to the ground system of the protector



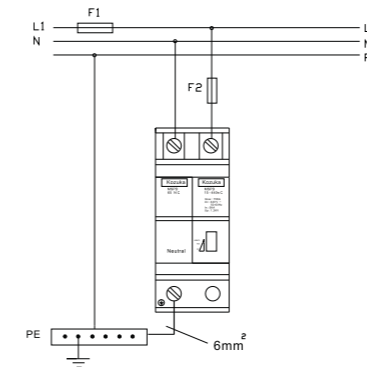
1. Technical data

Class II "C"	I _n (8/20 μs)	I _{max} (8/20 μs)	U _p	°C	IP	U _c (50/60Hz)	
MSPD 275sC	5/15/20KA	15/40/65KA	1.2KV	-25°C~+60°C	20	275V~	Ph+N
MSPD 440sC	5/15/20KA	15/40/65KA	1.2KV	-25°C~+60°C	20	440V~	3Ph+N

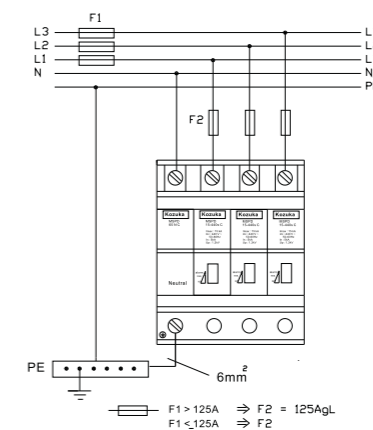
2. How to select surge protectors

- The voltage should be $\leq U_c$;
- $U_p < \text{maximum impulse withstands}$;
- Different protectors should be selected according to various grounding system and protection mode.

3. Allocation of surge protectors under TT system

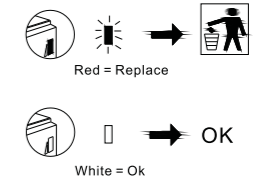


MSPD -275sC



MSPD -440sC

Indication



	mini	maxi
L, N, \perp	2.5mm ²	2.5mm ²
L, N, \perp	16mm ²	25mm ²

LC1 K1210 series AC Contactor

SPECIFICATIONS

Rated working current A (380V)	AC-3 use group				Contact data(1)
	Control power KW				
	220V	380/415V	440/500V	660V	
12	3	5	5	5	3P+NO
Specifications	Type				LC1-K12
Use group under AC-3					12
Rated working current (Ie)A					10
Conventional thermal current (Ich)A					20
Rated working voltage (Ui)V					380 660
Rated insulation voltage (Uj)V					690
AC-3(6Ie Ie)	Electrical life (times)				0.5×10 ⁵
	Operation frequency h ⁻¹				1200
AC-4(6Ie Ie)	Electrical life (times)				10×10 ⁴
	Operation frequency h ⁻¹				300
Mecncial life					3×10 ⁵
Auxiliary contact	Conventional thermal current				6A
	Electrical life (times)	AC-15(360VA)		DC-13(33W)	
Coil specifications	Rated control voltage (Us)				AC 240
	Pick-up Voltage				AC: 0.85-1.1Us
	Releasing Voltage				AC: 0.1-0.75Us
	Coil power VA				40
					4
	Consumption				1.2W
	Pick-up time				6~18ms
Releasing time				5~23ms	
Power factor				Making 0.8 Breaking 0.3	



MST7 Time Switch



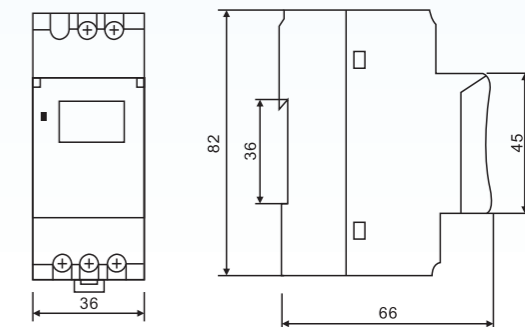
Construction and Feature

Compact modular size
LCD Display
Equipped with back-up battery
Permanent switch ON/OFF

Technical Date

16 ON/OFF Programs
Type: electronic with LCD display
Rated voltage:230V AC
Rated frequency:50/60Hz
Contact:1NO+1NC
Consumption: maximun 4VA
Contact capacity:
16A/250V AC(COSΦ=1)
Electrical endurance:10⁵cycles
Mechanical endurance:10⁷cycles
Time basis: quartz
24 hours+week program
Working precision:≤2sec/day (25°C)
min. programmable interval:1minutes
Power reserve: min.15 days
Ambient temperature:-10°C~+40°C
Humidity:35-85%RH
Connection terminal: pillar terminal with clamp
Connection capacity: rigid conductor 6mm²Installation:
On symmetrical DIN rail
Panel mounting

Overall and Mounting Dimensions



AS06-2406 series Photocell(Electronic Type)

TECHNICAL DATA

Voltage	200~285V AC,50/60Hz
Maximum Load	1000 watt tungsten, 1800VA.HID
Load Rating	6A
Guaranteed operation	5000 operations minimum(13.7 years)
Turn-On/Turn-Off	<1:4(Electronic)
Delay Time(Instantion)	30 to 120 seconds
Operating temperature	-40℃ to +70℃ (-40F to +158F)
Surge protection(MOV)	90J, 180, 320J (Optional)
Dielectric strength	5000 volts between current carrying parts and metal surfaces
Average Power consumption	<1 watts
Photocell	Cadmium sulphide (Cds)
Materials	Cover: Polypropylene UV stabilized, High impact, flammability resistance

Applications

- ※ Street way Lighting
- ※ Building Perimeter Lighting
- ※ Outdoor Advertising Signs
- ※ Parking Lot Lighting

Features and Benefits

- ※ Meet stringent utility standards for street & highway lighting.
- ※ Delayed response prevents false switching due to light from vehicles, lightning etc.
- ※ Longer life extends the maintenance cycle for photo controls mounted in difficult locations.
- ※ Positive electronic switching provides quick made/break of the load relay eliminating relay chatter
- ※ Low power consumption though a unique regulator circuit. Resulting low internal temperature rise contributes to long life. For safely reasons, the As06 photocontrols are designed to fail in the ON position

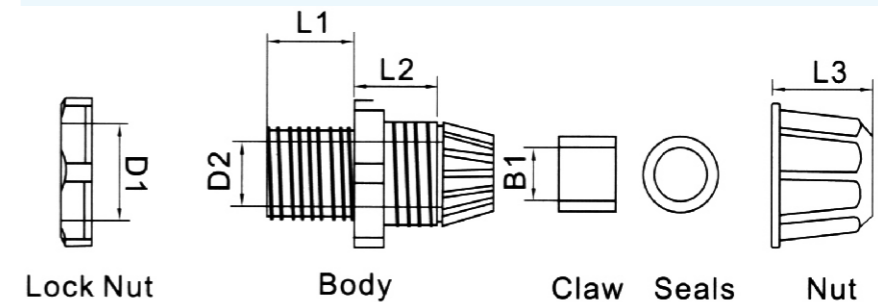


PG Cable Gland



TECHNICAL DATA

Item No.	D1(mm)	D2(mm)	L1(mm)	L2(mm)	L3(mm)	B1(mm)
PG-07	10.9	8.1	10.4	14.5	10.5	6.4
PG-09	15.3	12.2	9.9	15.8	17.2	8.6
PG-11	17.9	14.6	10.6	15.5	17.5	10.3
PG-13.5	20.2	16.2	10.3	17.8	17.9	13.3
PG-16	21.3	18.3	11.2	18.5	20.5	14.3
PG-19	24.7	20.5	11.4	18.6	21.8	15.5
PG-21	26.9	21.8	11.6	18.7	23.1	16.7
PG-24	29.8	25.0	12.1	28.3	24.1	19.2
PG-29	35.1	29.8	12.4	22.6	24.8	24.8
PG-36	44.7	37.1	12.6	25.1	26.1	30.7
PG-42	50.4	43.3	17.3	25.9	30.5	35.6
PG-48	56.1	48.2	20.9	28.1	31.5	41.4
PG-63	71.0	63.5	27.5	31.5	43.5	55.0



Metal Enclosures

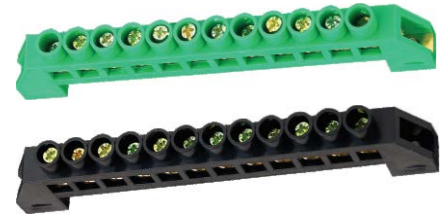
(wall mounted)



TECHNICAL DATA

Item No.	Description	(W×H×D)mm	Model
1	1 row 13 modular	325×255×110	KU13S
2	2 row 13 modular	325×435×110	KU26S
3	3 row 13 modular	325×575×110	KU39S
4	4 row 13 modular	325×700×110	KU52S
5	5 row 13 modular	325×765×110	KU65S
6	1 row 18 modular	406×255×110	KU18S
7	2 row 18 modular	406×435×110	KU36S
8	3 row 18 modular	406×575×110	KU54S
9	4 row 18 modular	406×700×110	KU72S
10	5 row 18 modular	406×765×110	KU90S

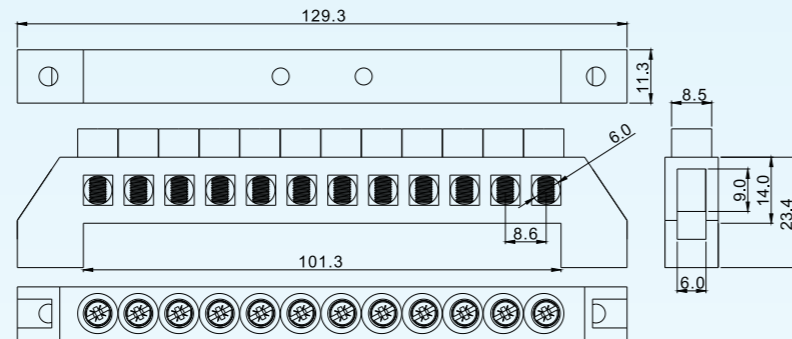
Insulated Neutral / Earth Link



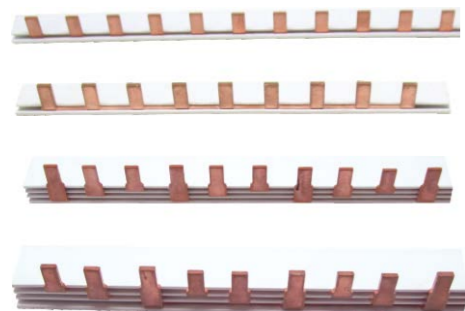
Technical Date

Plastic base: PC 12 Way
 Insert: Brass
 Screw: Iron, zinc plated
 Working Temperature: -35°C to 120°C

Overall and Mounting Dimensions



Insulated MCB Copper Bar



Item No.	Model	Description
1	63A	1 Phase Insulated MCB Copper Bar (54 ways)
2	100A	1 Phase Insulated MCB Copper Bar (54 ways)
3	63A	3 Phase Insulated MCB Copper Bar (18 ways)
4	100A	3 Phase Insulated MCB Copper Bar (18 ways)

MCB Terminal Adaptor



Item No.	Model	Description
1	25mm	MCB Terminal Adaptor
2	35mm	MCB Terminal Adaptor

KPPR-13-CZ
 RCD Adaptor Series

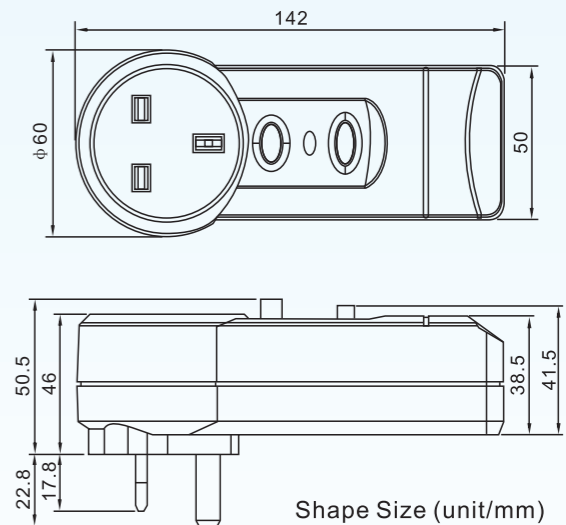


Product features:

- © It is made of ASIC and special material, with high susceptiveness and reliability. When appliance leakage happens or human gets an electric shock, this product can automatically cut off power promptly, protecting appliance and peoples life.
- © Dustproof functions, more reliable and wears well.

Product application:

- © This is applicable to the electrical appliance of U. K, HongKong, Singapore, Malaysia etc.
- © It is applicable to leakage protection of overseas hand held electric tool, electric pump, high pressure electric cleaner, electric grass cutter, electric water heater, strong release gas water heater, solar energy water heater, electric water boiler, air-conditioner, rice cooker, induction cooker, Computer, TV set, refrigerator, washing machine, hair-dryer, electric iron, etc.



Technical Parameters

Model	Rated voltage	Rated Current	Rated Leakage Tripping Current	Max Tripping Time	Operation Temperature	Protection Class
KPPR-13-CZ	250V~/50Hz	13A	30mA	≤0.1s	-5~℃ +40℃	IP40

DDS3666 series Single Phase Electronic kWh Meter

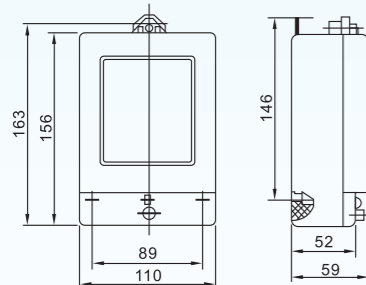
Function and Features

- ※ Active energy metering, long-term work is not to adjust;
- ※ The ADE7755 special measuring chip;
- ※ using the latest embedded digital multiplier foreign power application specific integrated circuit, greatly increased the instrument's dynamic range, the actual overload up to More than 10 times;
- ※ 5% Ib-max good within the error of linear;
- ※ external components, low power consumption, meter, simple structure;
- ※ The meter all the elements are optional long-life, high reliability electronic components, and thus has a long life and high reliability characteristics.
- ※ Display: LCD

Technical Data

Rated Voltage: 240V AC
 Rated Frequency: 50Hz
 Rated Current : 1.5(6),2.5(10),5(20),
 5(30),10(40),10(60),15(50),20(80),
 30(100)
 Accuracy Class: 1.0
 Starting current: 0.004Ib

Install Dimension



DTS3666 series Three Phase Four Wire Electronic kWh Meter

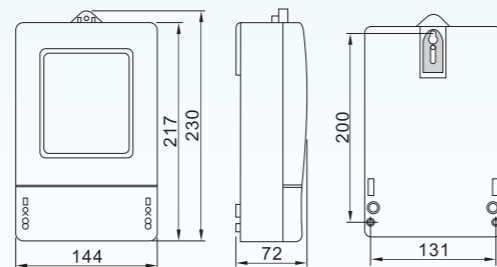
Function and Features

- ※ Three-phase active energy measurement, long-term work is not to adjust;
- ※ Three-phase power supply line (three-phase three-wire watt-hour meter in either three-wire line) or two lines (three-phase four-wire watt-hour meter in either two-wire four-wire) power outages, measurement accuracy Degree will not be affected;
- ※ Wide operating temperature range;
- ※ Has a direct function of phase failure or voltage indicator.
- ※ External components, low power consumption, meter, simple structure;
- ※ Display: LCD

Technical Data

Rated Voltage: 3×240/415V AC
 Rated Frequency: 50Hz
 Rated Current : 3×1.5(6),3×5(20),3×5(50)A,3×5(100)A,
 3×10(40),3×15(60),3×20(80),3×30(100)
 Accuracy Class: 1.0
 Starting current: 0.004Ib

Install Dimension



DD862 series Single Phase Two Wire kWh Meter

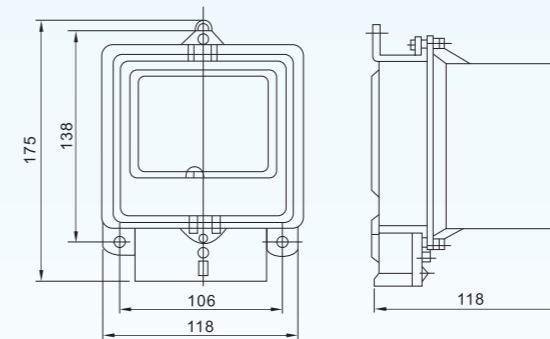
Function and Features

- ※ Sub-closed electromagnetic Core
- ※ The die-casting frame is made of alloy aluminum,Assure magnetism stable and reliable
- ※ 4+1 digits register
- ※ PC case

Technical Data

Rated Voltage: 240V AC
 Rated Frequency: 50Hz
 Rated Current : 1.5(6),2.5(10),5(20),
 5(30),10(40),10(60),15(60),20(80)
 Accuracy Class: 2.0
 Starting current: 0.005Ib

Install Dimension



DT862 & DT862-CT series Three Phase Four Wire kWh Meter

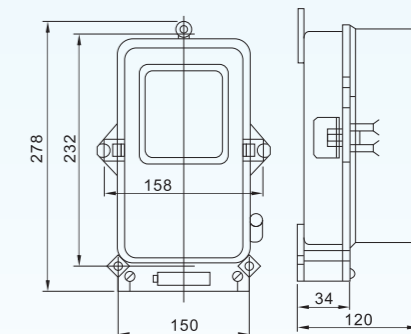
Function and Features

- ※ Sub-closed electromagnetic Core
- ※ The die-casting frame is made of alloy aluminum,Assure magnetism stable and reliable
- ※ 5+1 digits register
- ※ PC case

Technical Data

Rated Voltage: 3×240/415V AC
 Rated Frequency: 50Hz
 Rated Current: 3×3(6),3×5(20),
 3×10(40),3×15(60),3×20(80),
 3×30(100),3×1.5(5) for DT862-CT
 Accuracy Class: 2.0
 Starting current: 0.005Ib

Install Dimension



KEC series Modular Contactor AC7-a/AC1

TECHNICAL DATA

Standard	Confirming to EN/IEC61095
Power circuit	Rating at 40°C :25A~100A(AC7-a category)
Control circuit	Operating voltage:230/240V AC(-15% +6%)
Coil Frequency	50Hz
Number of poles	2P ,4P
Protection degree	IP20
Connection capacity	Control circuit :Rigid cable-2x1.5mm ² , Flexible cable-2x2,3mm ²
Power circuit	rigid cable:- 6 mm ² for 25 A, - 25 mm ² for 40 and 63 A, - 50 mm ² for 100 A. flexible cable:- 2 x 2.5 mm ² up to 25 A, - 2 x 10 mm ² for 40 and 63 A, - 6 to 35 mm ² for 100 A.
Operating temperature	-5°C to +50°C.
Storage temperature	-40°C to +70°C.



1.Application

KEC series modular contactors are essential power devices to control heating, lighting or ventilation system. They are recommended in association with other control and energy management devices.

2.Choice table

Number of poles	Power Circuit		Frame size in Width	Type of contacts	Control circuit	Model
	Rating Amp	Rating voltage AC7-a/AC1				
2P	25A	250V	18mm	2NO	240V	KEC225
4P	25A	400V	36mm	4NO	240V	KEC425
2P	32A	250V	36mm	2NO	240V	KEC232
4P	32A	400V	54mm	4NO	240V	KEC432
2P	40A	250V	36mm	2NO	240V	KEC240
4P	40A	400V	54mm	4NO	240V	KEC440
2P	63A	250V	36mm	2NO	240V	KEC263
4P	63A	400V	54mm	4NO	240V	KEC463
2P	100A	250V	54mm	2NO	240V	KEC299
4P	100A	400V	108mm	4NO	240V	KEC499

3.Overall and mounting dimensions

