

КАТАЛОГ

Вспомогательная продукция СБИ-ELECTRIC Low voltage



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Portable Earth Leakage Unit (ELP15)



ELP15

Features

- Three unswitched sockets
- QF17 sensitive earth leakage (30 mA sensitivity)
- Earth leakage unit with overload trip VC 8035
- Test button located in front panel
- 5 kA rated interrupting capacity
- Three 15 A standard round pin socket outlets provided
- A 1.5 metre cable with moulded 16 A plug provided
- Unique recessed design protects earth leakage handle and socket outlets from damage
- Sturdy carry handle

Applications

- A robust portable earth leakage unit specifically designed for use in construction, mining and industry for added safety and protection.

Technical Data

Portable Earth Leakage Unit (ELP15)	
Rated Voltage (V)	240 V 50 Hz
Current Rating	15 A
Rated Interrupting Capacity	5 kA
Output Socket Type	SANS 164-1 (Standard)
Sensitivity (Earth Leakage)	30 mA

OPERATING SAFETY GUIDELINES

1. Plug the unit into a standard earthed 16 amp socket outlet. Check that the earth leakage unit action is correct by switching the handle ON and OFF
2. When the unit is energised, check the earth leakage function by switching the handle of the earth leakage to the ON position. Press the test button. The unit must trip. If it does not, replace it.
3. Reset earth leakage function

Ordering Information

Portable Earth Leakage Units AC 15 A 50 Hz, 5 kA @ 240 V, 30 mA			
Type	Description	Std. Pack	Order No.
ELP15	Fitted with 3-standard 15 A round pin socket outlets & 15 A Overload Protection	1	LP36K15

QA17 - Series Earth Leakages

The QA17 type earth leakage device is available as a circuit breaker and as a switch. As a circuit breaker it has the suffix A attached to it QA17A and as a switch it has the suffix C attached to it QA17C.



QA17A
Dual Mount



QA17C
Dual Mount

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- VC 8035 compliant
- VDE and CCC approved, CE certified
- Ratings 5 to 63 A
- Earth leakage sensitivity 30 mA
- Single pole plus switched neutral earth leakage protection
- Switch versions fitted with short circuit protection
- Available in various currents and time delays
- Precision tripping characteristics
- Compact 26 mm wide module
- Trip indication with mid-trip position
- Reset immediately after overload
- Suitable to use for electrical isolation
- Shell designed for easier installation onto busbar

Auxiliary Switch, Trip Alarm & Combo: Features

- Auxiliary switch
- Auxiliary switch + trip alarm
- Trip alarm
- AC and DC voltages
- UL 489 listed (auxiliary switch: 6 A 250 V AC, 0.5 A 80 V DC)
- IEC 60947-5-1 approved (Auxiliary Switch: 6 A 240 V AC, 0.5 A 110 V DC; trip alarm: 6 A 240 V AC, 0.5 A 110 V DC)
- Factory fitted
- Attached to right hand side of circuit breaker
- Compact 6.5 mm width

Applications

- Residential and commercial applications requiring high sensitivity earth leakage protection from electrical shock and fire hazards
- Earth leakage protection (IEC / EN 60947-2)
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signalling equipment
- Industrial equipment

Optional Accessories

- Rear studs (factory fitted)
- Handle lock
- Surface mounting clips
- Busbar
- Escutcheon blank
- Safety blank

QA36 - Series Earth Leakages



QA36A
Dual Mount



QA36C
Dual Mount

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- VC 8035 compliant
- Ratings 5 to 63 A
- Earth Leakage sensitivity 30 mA
- Three pole plus switched neutral earth leakage protection
- Precision tripping characteristics
- Trip indication with mid-trip position
- Reset immediately after overload
- Suitable to use for electrical isolation
- Shell designed for easier installation onto busbar
- 57 mm front escutcheon

Applications

- Residential and commercial applications requiring high sensitivity earth leakage protection from electrical shock and fire hazards
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signalling equipment
- Industrial equipment

Approvals

VC 8035

Technical Data

Product Type	QA36A	QA36C
Approvals	VC 8035	
Number of Poles	3 + N	3 + N
Standard Ampere Ratings	6 to 63 A	40 and 63 A
Sensitivity	30 mA	30 mA
Equipment Type Rated Voltage	Earth leakage 230V	Earth leakage 230V
Rated Interrupting / Withstand Capacity	2.5 kA	- 2.5 kA
Time Delay Curves	2	-
Operating Temperature Range	-40 °C to +85 °C	
Mounting Options	Dual mounting (DIN & Mini)	

QF10 - Series Earth Leakages

The QF10 is an Earth Leakage Device with an un-switched neutral fitted on to a single 18 mm wide unit. It has an additional 50 mm long neutral cable and fits on DIN, CBI Mini Rail and can be surface mounted.



QF10
Dual (DIN & CBI Mini Rail) Mount

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- AS/NZS 3111 and AS/NZS 3190 compliant
- Ratings 6 to 40 A
- Earth Leakage sensitivity 30 mA
- Single pole with unswitched neutral earth leakage protection
- Additional neutral wire
- Compact 18 mm width
- Precision tripping characteristics
- Trip indication with mid-trip position
- Reset immediately after overload
- Shell design permits easier installation onto busbar
- 45 mm front escutcheon

Applications

- Residential and commercial applications requiring high sensitivity earth leakage protection from electrical shock and fire hazards
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signalling and infrastructure

QF17 - Series Earth Leakages

The QF17 is a 6 kA earth leakage device, available as a circuit breaker as well as switch. It is black in colour and can be mounted on DIN Rail and the CBI Mini Rail. Its front escutcheon is 57 mm.



QF17A
Dual Mount



QF17C
Dual Mount

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- VC 8035 compliant
- VDE and CCC approved, CE certified
- UL recognised (UL 1053, UL 1077)
- Ratings 5 to 63 A
- Earth leakage sensitivity 30 mA
- Single pole plus switched neutral earth leakage protection
- Switch versions fitted with short circuit protection
- Available in various currents and time delays
- Precision tripping characteristics
- Compact 26 mm wide module
- Trip indication with mid-trip position
- Reset immediately after overload
- Suitable to use for electrical isolation
- Shell designed for easier installation onto busbar

Auxiliary Switch, Trip Alarm & Combo: Features

- Auxiliary switch
- Auxiliary switch + trip alarm
- Trip alarm
- AC and DC voltages
- UL 489 listed (auxiliary switch: 6 A 250 V AC, 0.5 A 80 V DC)
- IEC 60947-5-1 approved (auxiliary switch: 6 A 240 V AC, 0.5 A 110 V DC; trip alarm: 6 A 240 V AC, 0.5 A 110 V DC)
- Factory fitted
- Attached to right hand side of circuit breaker
- Compact 6.5 mm width

Applications

- Residential and commercial applications requiring high sensitivity earth leakage protection from electrical shock and fire hazards
- Earth leakage protection (IEC / EN 60947-2)
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signalling equipment
- Industrial equipment

Optional Accessories

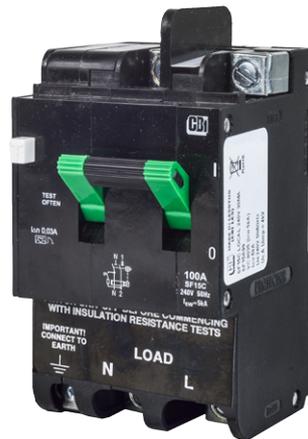
- Rear studs (factory fitted)
- Handle lock
- Surface mounting clips
- Busbar
- Escutcheon blank
- Safety blank

SF15 - Series Earth Leakages

The SF15 is a single phase heavy duty industrial earth leakage circuit breaker available as a surface mount and CBI Mini Rail mount device. This earth leakage circuit breaker is available with earth leakage sensitivity of 30 mA.



SF15A
 Mini Rail &
 Surface Mount



SF15C
 Mini Rail &
 Surface Mount

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- VC 8035 compliant
- AS/NZS 3111 and AS/NZS 3190 compliant
- Immune to pulsating DC load current
- Ratings 10 to 100 A
- Earth leakage sensitivity 30 mA, 50 mA, 250 mA, 375 mA, 500 mA, 1000 mA
- Single pole plus switched neutral earth leakage protection
- Precision tripping characteristics
- Reset immediately after overload
- Suitable to use for electrical isolation

Applications

- Mining, heavy industrial and commercial applications requiring high sensitivity earth leakage protection from electrical shock and fire hazards
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signalling and infrastructure

SF36 - Series Earth Leakages

The SF36 is a three phase heavy duty industrial earth leakage circuit breaker available as a surface mount and CBI Mini Rail mount device. This earth leakage circuit breaker is available with earth leakage sensitivity of 30 mA.



SF36A
Mini Rail Mount
Surface Mount



SF36C
Mini Rail Mount
Surface Mount

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- VC 8035 compliant
- AS/NZS 3111 and AS/NZS 3190 compliant
- Immune to pulsating DC load current
- Ratings 10 to 80 A
- Earth Leakage sensitivity 30 mA
- Three pole plus switched neutral earth leakage protection
- Switches all active and neutral poles
- Precision tripping characteristics
- Reset immediately after overload
- Suitable to use for electrical isolation
- Surface mount & Mini Rail mount
- 55 mm front escutcheon

Applications

- Mining, heavy industrial and commercial applications requiring high sensitivity earth leakage protection from electrical shock and fire hazards
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signalling equipment

SM15 - Series Earth Leakages

The SM15 is a single phase heavy duty industrial earth leakage circuit breaker available as a surface mount and CBI Mini Rail mount device. This earth leakage circuit breaker is available with earth leakage sensitivity of 30, 50, 100, 250, 375, 500 and 1000 mA.



SM15A
Mini Rail &
Surface Mount

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- VC 8035 compliant
- AS/NZS 3111 and AS/NZS 3190 compliant
- Immune to pulsating DC load current
- Operating Voltage 110 and 240 V AC
- Ratings 10 to 100 A
- Earth Leakage sensitivity 30 mA, 50 mA, 100 mA, 250 mA, 375 mA, 500 mA, 1000 mA
- Single pole plus switched neutral earth leakage protection
- Precision tripping characteristics
- Reset immediately after overload
- Suitable to use for electrical isolation

Applications

- Mining, heavy industrial and commercial applications requiring high sensitivity earth leakage protection from electrical shock and fire hazards
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signalling equipment

SM36 - Series Earth Leakages

The SM36 is a three phase heavy duty industrial earth leakage circuit breaker available as a surface mount and CBI Mini Rail mount device. This earth leakage circuit breaker is available with earth leakage sensitivity of 30, 50, 100, 250, 375, 500 and 1000 mA.



SM36A
CBI Mini Rail &
Surface Mount

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- AS/NZS 3111 and AS/NZS 3910 approved
- Precision tripping characteristics
- Ratings 15 to 80 A
- Earth Leakage sensitivity 50 mA, 100 mA, 250 mA, 375 mA, 500 mA, 1000 mA
- Three pole plus switched neutral earth leakage protection
Switches all active and neutral poles.
- Immune to pulsating DC load current
- Reset immediately after overload
- Suitable to use for electrical isolation

Applications

- Mining, heavy industrial and commercial applications requiring different sensitivities for earth leakage protections from electrical shock and fire hazards
- Mobile power generation equipment
- Railway signalling and infrastructure

Hospital Monitor (Early Bird)

The Early Bird hospital earth leakage monitor was developed to meet the requirements laid down by the South African Bureau of Standards code of practice SABS 051/1973, Part II.



EB225H

Features

- Sensitive measurement ($> 200 \text{ k}\Omega$)
- Calibrated $5 \text{ k}\Omega$ alarm level
- Automatic reset when fault is cleared
- Large dial display for early detection
- Built-in indicator lamps (red, green)
- Connector block for remote lamps, alarm connection and mute button
- Built-in test button
- Built-in mute button
- Can detect AC, rectified (DC) and balanced insulation deterioration
- Powered from the monitored supply

External Connections

- Connections to the EB 225H are by means of a multi-way connector block. Connections are:
 - 220V supply (isolated), L1 L2
 - Remote audio muting
 - Remote common
 - Remote green lamp supply*
 - Remote red lamp supply*
 - Remote audio supply*
 - Earth stud

* 120VA, each contact pair. Maximum ratings: 220V

Applications

- To protect against the hazards of electrocution and fire risk in the explosive atmospheres associated with anaesthetics, the standard practice is to install 1 : 1 ratio isolating transformers to supply all outlets in the hospital theatres.
- **WARNING:**
The Early Bird does not disconnect the supply. It provides an early warning of a fault, which should be corrected as soon as possible, as a second fault could cause large currents or electrocution.

Accessories

- The following additional accessories are required to complete the Early Bird system. These are not included with the EB as supplied.
- Double wound 1 : 1 ratio double insulated transformer to suit system requirements
 - Remote alarm lights
 - Remote audible alarm
 - Remote audible alarm mute push button (optional)

NEW

NEW PRODUCT INTRODUCTION BRITISH STANDARD SOCKET READY BOARD



Features

- British Standard socket outlets
- Knockouts for additional Circuit Breakers and/ or Auxiliary products, as well as 15 access points for conduit or twin and earth wire
- Compatible with all prepayment meters
- Bulkhead light (standard / compact fluorescent optional)
- Earth Leakage protection
- Mounting lugs

Applications

- Residential - garages, workshops, affordable housing, small holdings, extensions, outbuildings etc.
- Commercial
- Industrial

NOTE: Can be supplied in kit format for self assembly, complete with assembly instructions.

Architrave Boards



40-Way



40-Way



60-Way

Features

- Board for housing circuit breakers, switch disconnectors and earth leakage units
- Metal mounting tray, vertically and horizontally adjustable
- Earth and neutral bars provided
- Escutcheon / safety blanks available
- Conduit knockouts provided
- White coloured finish
- Flush mount
 - Choice of 40-way and 60-way
- Surface mount:
 - Choice of 40-way and 60-way
- Mounting tray with CBI Mini Rail

Applications

- Commercial
- Industrial

Optional Accessories

- Circuit breakers
- Switch disconnectors
- Earth leakage units
- QAT-TRDM timers
- Energy Control Units (ECUs)

Technical Data

Distribution Boards	Description
Product Type	40 Way – 40 x 13 mm Modules 60 Way – 60 x 13 mm Modules
Conduit Knockouts – 40-Way Flush Mount	6 x 20 mm and 2 x 25 mm on both sides
Conduit Knockouts – 40-Way Surface Mount	6 x 20 mm, 6 x 25 mm and 1 x 50 mm on both sides
Conduit Knockouts – 60-Way Flush Mount	6 x 20 mm and 1 x 25 mm on both sides
Conduit Knockouts – 60-Way Surface Mount	6 x 20 mm, 6 x 25 mm and 1 x 50 mm on both sides

Ordering Information

Description	Std. Pack	Order No.
40 - Way (2 x 20 - Way and Tray)¹	1	DBBOX40
60 - Way (3 x 20 - Way and Tray)¹	1	DBBOX60

Distribution Boards - 12 & 20 Way



20-Way Plastic

(not populated / prewired - image for illustrative purposes only)



20-Way Steel

(not populated / prewired - image for illustrative purposes only)



12-Way Steel

(not populated / prewired - image for illustrative purposes only)

Features

- Aesthetically pleasing board for housing circuit breakers, switch disconnectors and earth leakage units
- Mounting tray, metal or plastic, vertically and horizontally adjustable
- Optional cover flaps available
- Earth and neutral bars provided
- Escutcheon / safety blanks available
- Conduit knockouts provided
- White coloured finish
- Flush mount
 - Choice of 12-way and 20-way, to accommodate 13 Mm width products
 - 12-Way available in steel or plastic
 - 20-Way available in steel or plastic
- Surface mount:
 - 13-Way (CBI Mini Rail)
 - 13-Way available in plastic only
- Mounting tray with CBI Mini Rail
- Manufactured from durable engineering plastic

Applications

- Residential
- Commercial

Optional Accessories

- Plastic hinged cover
- Front cover
- Circuit breakers
- Switch disconnectors
- Earth leakage units
- QAT-TRDM timers
- Energy Control Units (ECUs)

Technical Data

Distribution Boards	Description
Product Type	20 Way – 20 x 13 mm modules 12 Way – 12 x 13 mm modules 13-Way - 13 x 13 mm modules
Conduit Knockouts – 12-Way	3 x 20 mm top and bottom 2 x 20 mm on both sides
Conduit Knockouts – 13-Way	4 x 20 mm and 1 x 25 mm top 3 x 20 mm and 1 x 25 mm bottom 3 x 20 mm on both sides
Conduit Knockouts – 20-Way	5 x 20 mm and 1 x 25 mm top and bottom 2 x 20 mm on both sides

Ready Boards



NRBCON003



NRBCON002

Features

- Switches (light and socket outlets) have a glow-in-the-dark fluorescent insert
- Knockouts for additional circuit breakers and/or auxiliary products, and 15 access points for conduit or twin and earth wire
- Compatible with all prepayment meters
- Bulkhead light (optional)
- Earth leakage protection
- Mounting lugs
- 6 A Euro switched socket
- Meets national specifications

Applications

- Residential - garages, workshops, affordable housing, small holdings, extensions, outbuildings etc.
- Commercial
- Industrial

Optional Accessories

- Bulkhead light
- Different combinations of socket outlets

Approvals

SANS 1619

Technical Data

Product Type	NRBCON002	NRBCON003
Protection	1 x QA17C 63 A 2 x QA -1(13) 20 A	1 x QA17C 63 A 2 x QA-1(13) 20 A
Switches (light and socket outlets)	3 x 16 A switched sockets 1 x 6 A Euro socket	3 x 16 A switched sockets 1 x 6 A Euro socket
Bulkhead light	-	1 x switched bulkhead

Ordering Information

Ready Boards		
Description	Std. Pack	Order No.
1 x QA17C 63 A; 2 x QA-1(13) 20 A; 3 x 16 A switched sockets; 1 x 6 A Euro socket	1	NRBCON002
1 x QA17C 63 A; 2 x QA-1(13) 20 A; 3 x 16 A switched sockets; 1 x 6 A Euro socket; 1 x switched bulkhead	1	NRBCON003



NEW PRODUCT INTRODUCTION NANOVIEW



Features

- Real time and accumulated consumption of up to 16 circuits and 4 water meters
- User selectable names to identify circuits:
 - Plugs
 - Lights
 - Geyser
 - Stove
 - Outbuilding (Flatlet, Lapa)
 - Pump (Pool, Borehole, A/C)
 - Water
 - Total
- Consumption graphs for each circuit and water meter every:
 - hours for the last 7 hours
 - days for the past week
 - weeks for the past 7 weeks
 - months for the past 7 months
 - calendar year for up to 5 years
- Power and water consumption conversion to Rand and Cent to track savings
- Modern touch button interface (iPod® inspired)
- Real time high consumption warning LED
- Large 5" (127 mm) LCD display

Technical Specifications

- Electricity:
 - Up to 16 power circuits
 - Sensor measuring range: 5 W - 14 kW (60 A max)
 - Power sensor accuracy 99% (Class I)
 - Operating Voltage 230 V AC \pm 20%, 50 Hz
 - 1 Second refresh rate
 - 24 hour battery backup for time keeping
 - Consumption data saved indefinitely during power failures
- Water Meter:
 - Up to 4 water meter transmitters
 - Water meter range up to 100 m
 - Water meter 3 year battery life (displayed)
 - 1 litre accuracy
 - Compatible with the popular water meter brands:
 - Elster Kent VI 10
 - Precision Meters ASM
 - and most reed switch capable brass and plastic water meters
- Certification: SANS 60950
- ICASA type approved

Rail Mount Energy Meters

Ecolec 300 Rail Mount Energy Meters

The Ecolec 300 series is a rail mounted, compact, Class 1 electricity meter, available as a single or three phase meter showing the consumption of the installation. The compact rail mounted meters comply with SANS 1799 : 2004.

These meters fit on a DIN rail and the CBI Mini Rail. The DIN version is grey in colour and has a 45 mm front escutcheon. The dual (DIN and CBI Mini Rail) mount version is black in colour and has a 57 mm front escutcheon. The display is an electro-mechanical counter with a seven digit indication of energy consumed to 1 / 10 kWh. A dual colour lamp shows the rate of consumption and confirms the presence of incoming power supply and some unsafe / error conditions. They are supplied with anti-tamper terminal protection plugs.

These are compact in size and can be mounted next to incoming circuit breakers. They drastically reduce enclosure costs. The meter is reverse feedable and measures consumption correctly. It has a LIN bus terminal for communicating and requesting data remotely (up to 20 addressable meters on one bus).



EC320CM
Dual Mount



EC330CM
Dual Mount



EC320CD
DIN Mount



EC330CD
DIN Mount

Features

- SANS 1799 class-1 electricity meters
- Class 1: accuracy < 1%
- Single and three phase alternatives
- Fits all CBI Mini and DIN rail distribution boards
- 7 Digit tamper-proof counter
- Anti-tamper terminal protection plugs
- Also available in 120V / 60 Hz
- LED status and kWh consumption indicator
- Remote monitoring: LIN bus
- IP-45 rating
- 57 mm (dual mount) and 45 mm (DIN rail) escutcheon

Applications

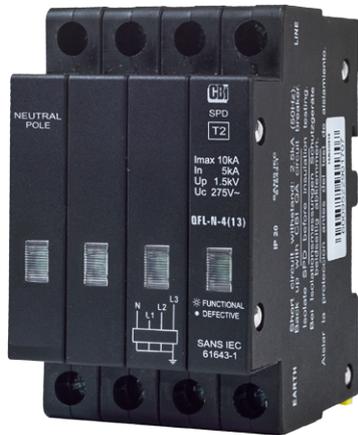
- Residential
- Commercial
- Rural electrification

QKL / QFL Surge Arresters

The QKL and QFL range of rail mounted surge protection devices are 13 mm in width per pole and Class II devices. They are fitted with an LED indication showing the SPD's condition: while ON, the SPD is functional; if OFF and the mains power is still available, the SPD is no longer functional and should be replaced. The device is a voltage limiting / clamping type with MOV.



QFL
Dual Mount



QFL
Dual Mount



QKL
DIN Rail



QKL
DIN Rail

Features

- SANS 61643-1
- Compact size (13 mm per pole)
- Clip-in on both DIN and CBI Mini Rail
- DIN mount in grey with 45 mm front Escutcheon
- Dual (DIN & CBI mini rail) mount in black with 57 mm front escutcheon
- LED indication of the SPD's condition – while ON, the SPD is functional, if OFF and the mains power is still available, then the SPD is no longer functional and should be replaced
- Thermal disconnect device (prevents potential thermal runaway problems)
- One port SPD (no series impedance)
- Voltage limiting / clamping-type SPD (MOV)
- IP 20 rating

Applications

- For surge protection on incoming power supply in lightning protection zones OB to 1 or 1 to 2 in compliance with SANS 10142-1 [The Wiring of Premises]
- For maximum efficiency, ensure that the installation is earthed in accordance with SANS IEC 61312

Approvals

SANS 61643-1

Technical Data

What surge is

A surge is a very short burst of high energy. Surges often occur on mains supplies and telecommunication cables and may cause electrical equipment to malfunction or be damaged.

Causes of a surge

Surges are caused by lightning and by switching operations on the power supply system.

The most dangerous surges are those caused by direct lightning strikes to a building. Surges due to network switching and adjacent lightning strikes are usually less dangerous, but occur more frequently.

Energy Control Unit (ECU)



ECU
CBI Mini Rail

Features

- Compact size
- Convenient mounting - clips into CBI Mini Rail
- Silent operation
- The controlling circuit can carry 60 A continuously
- LED indication ON when controlled circuits interrupted and OFF when circuit is reconnected
- Instantaneous interruption of controlled load at nominal 105% rated current
- Instantaneous reconnection of controlled load at nominal 65% rated current
- Operating points not affected by ambient temperature

Applications

- To control the disconnecting of secondary or non-essential loads such as electrically heated water tanks or underfloor heating, during high demand periods.
- **Example:** When a stove (controlling circuit) is switched on and the current exceeds the rating of the ECU, the supply to the hot water tank (controlled circuit) will be temporarily interrupted. The ECU rating (amp) should be low enough to ensure the timely interruption of the controlled circuit.

Technical Data

Description	
Rated Voltage	240V AC 50 / 60 Hz
Controlling Circuit Ratings	5, 10, 15, 20, 25, 30, 40, 60 A
Controlled Circuit Rating	21 A resistive load

Product Type	ECU
Operating Temperature Range	-40 °C to +85 °C
Mounting Options	CBI Mini Rail
Weight	814 g (unpacked)
Humidity	35 to 85% relative
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28
Toxicity	F1 - Smoke index of ≤ 20 which determines the fume class
Pollution Degree	PD2 - Normally only non-conductive pollution occurs. Temporary conductivity caused by condensation is to be expected.

Domestic Contactor (SAK)



SAK
CBI Mini Rail

Features

- Compact size
- Convenient mounting – clips into CBI Mini Rail
- On / Off indicator
- Standard coil voltage 220 / 240V AC 50 / 60 Hz
- Contact rating at 220 / 240V AC 50 / 60 Hz

Applications

- For frequent switching duty and control of higher current appliances

Technical Data

Table 1		
Load Type	Max Current (A)	Max Operations at 50 per Hour
Inductive	5	150 000
Resistive	16	30 000
Resistive	20	150 000

Table 2		
No of Poles in Parallel	Inductive Load AC3	Resistive Load AC1
2	6 A	20 A
3	10 A	30 A
4	13 A	40 A

Note: 1. The maximum ratings shown above can be increased as shown in table 2, by connecting two or more poles in parallel with a bridging piece.

2. Leave bridging piece connected when using single phase supply

Product Type	SAK
Operating Temperature Range	-40 °C to +85 °C
Mounting Options	CBI Mini Rail, TC4 surface mounted enclosure
Weight	190 g (unpacked)
Humidity	35 to 85% relative
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28
Toxicity	F1 - Smoke index of ≤ 20 which determines the fume class
Pollution Degree	PD2 - Normally only non-conductive pollution occurs. Temporary conductivity caused by condensation is to be expected.

Pole Mounting Box (SPB1)



Features

- Oval design allows more space for wiring
- Accepts up to three single poles, below 100 A, or one single pole above 100 A, or one triple pole circuit breaker (not supplied)
- Up to three operating slides can be fitted for independent circuit breaker operation
- Orange slide visible from street level
- Slide can be operated with a hooked rod or linkstick from the ground
- Large terminals accept up to 50 mm² cable
- Fully weather proof
- Convenient mounting methods for pole, cross arm or under insulator
- Manufactured from tough polypropylene material impervious to UV, air gun pellets, etc.
- Unique nylon cord fitted to secure lid to base during termination

Application

Pole mounting enclosures for circuit breakers have been designed to protect of the overhead line and the service cable to the consumer, against short circuit and if an installation is faulty, the whole installation can be isolated from the distribution system thereby reducing the risk of black-outs in a whole area. The QF circuit breakers used in these pole mounted enclosures are available with such operating characteristics to guarantee discrimination on low and medium overloads to downstream circuit breakers.

Optional Accessories

- Horizontal mounting bracket - ferrous
- Vertical mounting bracket - ferrous
- Horizontal / vertical mounting bracket - ferrous
- Horizontal / vertical mounting bracket - non ferrous
- Strapping bracket - non - ferrous
- Operating slide with hole plug

Technical Data

The SPB1 will accept three single pole, or one double pole or one triple pole QF type circuit breaker. It is recommended that curve 1 circuit breakers are used to provide discrimination between this circuit breaker and those at the consumer premises.

Product	Description	Std. Pack	Order No.
SPB1	Plastic pole mounting box complete with one operating slide (excludes mounting bracket MCBs, will accept 1, 2, 3-pole MCBs type QF, SF, and QH)	10	SPB1001
SPB1 Kit-B	Horizontal mounting bracket - ferrous	10	3674000
SPB1 Kit-D	Vertical mounting bracket - ferrous	10	3674001
SPB1 Kit-E	Vertical mounting bracket - ferrous	10	3670022
SPB1 Kit-F	Horizontal / vertical mounting bracket - ferrous	10	3674002
SPB1 Kit-G	Horizontal / vertical mounting bracket - non ferrous	10	3670024
SPB1 Kit-HP	Strapping bracket - non-ferrous	10	3670025
SPB1 Slide	Operating slide with hole plug	10	2166100

Electronic Time Switch

Timers

The QAT-TRDM is a programmable timer that can be used to control loads that are required to switch ON and OFF at time intervals programmed by the user. The programmable time switch can be used to automatically control pool pumps, lights, geysers, etc.



QAT-TRDM
cover open



QAT-TRDM
cover closed

Features

- Compact size
- Simple setting of time and programs
- LCD touch-screen
- Multiple ON / OFF programs
- Improved 15 minute segments
- Service life: 20000 operations at full load
- Backup power feature requires only 60 minutes to charge
- Backup power displays time for 12 hours and keeps time for at least 24 hours. The programmed schedule is always retained.
- Protective lift-up cover – sealable
- Graphical display on home screen of 24 h program schedule
- Bypass (manual ON / OFF) capability
- Switched Live contact reduces wiring
- Dual mount: CBI Mini Rail or DIN rail (remove escutcheon adaptor)

Applications

- Residential
- Commercial
- Light industrial
- Security lights
- Office lights
- Illuminated signs
- Geyser
- Pool pump

Approvals

SANS 60730-2-7

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Брянск (4832)59-03-52
Владивосток (423)249-28-31
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