

Ancillary products.

Eaton has access in Australia to an extensive range of high quality and world class test and measurement tools to provide reliability and accuracy when it comes to verification and troubleshooting in electrical installations. Also with a broad array of wiring accessories, enclosures, proximity sensors and monitoring relays, Eaton is the ideal choice to depend on.

Eaton is a world leader in energy management and power quality solutions from metering devices to monitor energy consumption to industry leading backup power (UPS) and surge protection products to solve the most challenging power related problems today.

EATON
Powering Business Worldwide



Test and measurement

Analogue Multimeters	pg 322
Digital Multimeters	pg 322
Voltage Testers	pg 322
Clamp Meters AC	pg 323
Clamp Meters AC/DC	pg 323
Clamp Meters DC milliamp	pg 323
Clamp Meters leakage	pg 323
Insulation Testers	pg 324
High voltage insulation testers	pg 324
Earth Testers	pg 324
Current/Leakage Loggers	pg 325
Power Meters & Power Quality Analysers	pg 325
Test Kits	pg 325
Loop Impedance Testers	pg 326
Multi Function Testers	pg 326
RCD/ELCB Testers	pg 326
Portable Appliance Testers	pg 326
Phase rotation meters	pg 327
Lux Meters	pg 327
Temperature Indicators Infrared	pg 327
Clamps & accessories	pg 327

Metering

Metering Devices	pg 329
Power Meters CVM-MINI Series	pg 330
Power Analyser - Circutor	pg 331
Energy Meters - Circutor	pg 333
Current Transformers - Circutor	pg 334
Industrial Earth leakage Protection	pg 337

Wiring accessories

Feed-Through Terminals	pg 338
Earth Terminals	pg 341
Double Deck/Duo Terminals	pg 342
Disconnect Terminals	pg 343
Fuse Terminals	pg 345
Marking Tags	pg 346
DIN Rail & Ducting	pg 347
Cable Accessories	pg 348

Enclosures

Eaton Halyester Polyester/Non Metallic Enclosures	pg 349
Small insulated enclosures CI-K series	pg 350
Totally insulated enclosures CI series	pg 351
ETA Mild Steel Enclosures	pg 354
ETA CS Enclosures	pg 358
ETA Thermal Management Products	pg 359

Rhomberg

General purpose Inductive Proximity Sensors	pg 361
General purpose Capacitive Proximity Sensors	pg 363
Monitoring Relays	pg 364
Control relays	pg 365
Timers	pg 366
Liquid Level Controllers	pg 367

Riko

Riko Float Switches	pg 368
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Power quality

Rugged, Commercial Surge Filter	pg 369
Class I - Diverters	pg 369
Class II - Diverters	pg 369
Class II, Quickmov™ Surge Diverter	pg 370
Class II, Neutral – Earth Surge Protector	pg 371
Single & Three Phase 50-80A Surge Filter	pg 371
Single Phase High Performance Surge Filter	pg 371
Single Phase DIN Rail Compact Surge Filter	pg 372
Three Phase Surge Diverter	pg 372
Three phase premium power filter	pg 372
Class III diverters & filters	pg 373
Class II solar cell surge diverters	pg 374
Power conditioners	pg 375
DC product range	pg 378
Industrial Batteries - DC power systems	pg 379
UPS single phase	pg 380
5E UPS, 1 phase	pg 380
E Series DX UPS, 1 phase	pg 381
9E UPS, 1 phase	pg 381
Premier series UPS's	pg 382
Series 3 Single Phase Input/Output UPS	pg 382
Series 5 Single Phase Input/Output UPS	pg 382
Series 9 single phase input/output UPS	pg 384
3 phase	pg 386

Kyoritsu.

over **75** years
of Japanese
reliability and quality.



Eaton is pleased to represent the Kyoritsu brand throughout Australia. Kyoritsu is a world leading brand when it comes to electrical test and measurement. Kyoritsu offers an extensive range of high quality instruments from analogue/digital multimeters to high-end power quality analysers that are widely used and trusted by electricians, maintenance technicians and engineers.

EATON

Powering Business Worldwide



Quality and reliability is our tradition

KYORITSU

Analogue multimeters

Model 1109S

- Mirrored scale for easy & accurate reading
- Safety designed input terminals & test leads
- Output terminal to cut off DC component

Description	Item no.
Kyoritsu analogue multimeter with dB & hFE	1109S
Kyoritsu analogue multimeter with temperature & continuity buzzer.	1110



1109S

Digital multimeters

Model 2012R

- Capable of measuring AC & DC current to 120 A
- True RMS measurements
- Pocket sized heavy duty design
- Sleep function to conserve battery life
- Designed to international safety standard IEC 61010-1, CAT III 300V

Description	Item no.
Kyoritsu Pen Type Digital Multimeter-AC/DC V, ohm, Hz, uF, diode & continuity tests.	1030
Kyoritsu digital multimeter-AC/DC V, AC/DC A, ohm, Hz, uF, diode & continuity tests.	1009
Kyoritsu digital multimeter-AC/DC V, AC/DC A, ohm, Hz, uF, Temp, diode & continuity tests.	691011
Kyoritsu digital multimeter with True RMS-AC/DC V, AC/DC A, ohm, Hz, uF, diode & continuity tests.	691012
Kyoritsu digital multimeter (Soft Case)-AC/DC V, ohm, Hz, uF, diode & continuity tests.	1018S
Kyoritsu digital multimeter (Hard Case)-AC/DC V, ohm, Hz, uF, diode & continuity tests.	1018H
Kyoritsu high performance CAT IV digital multimeter with low pass filter	691051
Kyoritsu high performance CAT IV digital multimeter with low pass filter & data capture capability	691052
Kyoritsu professional digital multimeter with 1,000 data capture capability	691061
Kyoritsu professional digital multimeter with 10,000 data capture capability	691062
Kyoritsu digital multimeter / 6mm Dia. clamp meter-AC/DC V, ohm, Hz.	KEWMATE2000
Kyoritsu digital multimeter / 10mm Dia. clamp meter-AC/DC V, ohm, Hz.	KEWMATE2001
Kyoritsu digital multimeter true RMS/12mm dia open clamp sensor	2012R



2012R

Voltage testers

Model KT170-AU

- AC/DC voltage tests up to 690V
- Clear oversize luminous LED & audible indication
- Continuity test
- Self-diagnostic test
- Single pole phase test
- Phase rotation test
- Polarity indication
- Auto power on/off
- Penlight (white LED)
- IP65 rating
- IEC61010-1CAT.IV 600V/ CAT.III 690V

Description	Item no.
Kewtech KT170-AU voltage tester with phase checking & continuity	KT170-AU



KT170-AU



2200

Clamp meters AC

Model 2200

- Maximum AC current measurement 1000A
- Maximum AC voltage measurement 600V
- 33 mm diameter conductor size
- Ultra slim and light weight

Description	Item no.
Kyoritsu digital clamp meter AC-600A AC, CAT. IV 600V	2040
Kyoritsu digital clamp meter AC-2000A AC, 55mm Dia.	2002PA
Kyoritsu digital clamp meter AC-2000A AC, 55mm Dia. TRMS	2002R
Kyoritsu digital clamp meter AC-600A AC, 33mm Dia.	2007A
Kyoritsu digital clamp meter AC miniature-200A AC, 24mm Dia.	2031
Kyoritsu ultra slim digital clamp meter AC-1000A AC, 33mm Dia.	2200
Kyoritsu analogue clamp meter AC-300A AC, 33mm Dia.	2608A
Kyoritsu analogue clamp meter AC-600A AC, 35mm Dia.	2805
Kewtech digital clamp meter AC-400A AC, 30mm Dia.	KT200



2046R

Clamp meters AC/DC

Model 2046R

- CAT. IV 600V rating
- Current up to 600A AC/DC and voltage up to 600V AC/DC
- Continuity buzzer
- 33mm jaw size
- Frequency, capacitance and temperature measurement
- LED Non-contact voltage detection
- Display: 6039 counts with bar graph
- Lowest resolution 0.1A

Description	Item no.
Kyoritsu digital clamp meter AC/DC, True RMS, 600A AC, 33mm Dia., CAT. IV 600V.	2046R
Kyoritsu digital clamp meter AC/DC, 1000A AC, CAT. IV 600V.	2055
Kyoritsu digital clamp meter AC/DC, True RMS, 1000A AC, 40mm Dia., CAT. IV 600V.	2056R
Kewtech digital clamp meter AC/DC-400A AC, 30mm Dia.	KT203
Kyoritsu digital clamp meter AC/DC-2000A AC, 55mm Dia.	2003A
Kyoritsu digital clamp meter AC/DC True RMS, 2000A AC, 55mm Dia.	2009R
Kyoritsu digital clamp meter AC/DC miniature-300A AC, 24mm Dia.	2033
Kyoritsu digital clamp meter AC/DC open slot-100A AC, 10mm Dia.	2300R



2500

Clamp meters DC milliamp

Model 2500

- Measures DC 4-20mA signals without breaking the loop
- Top class measurement 0.2% accuracy
- 6mm clamp jaw easy to use in tight places
- Measurement from 0.01mA to 120.0mA
- Dual display with backlight shows both mA measurement and percentage of 4-20 mA span
- Analog output terminal for recorder connection

Description	Item no.
Kyoritsu 2500 DC milliamp process clamp meter	2500

Clamp meters leakage

Model 2434

- Least affected by external stray magnetic fields
- Frequency selector switch eliminates harmonic effects
- Data hold function
- Designed to international safety standard IEC 61010-1 CAT III 300V



2434

Description	Item no.
Kyoritsu digital clamp meter AC leakage, 40mm Dia., AC 100Amp., Filter, Peak10ms.	2432
Kyoritsu digital clamp meter AC leakage, 28mm Dia., AC 100Amp., Filter.	2434
Kyoritsu digital clamp meter AC leakage, 24mm Dia., AC 200Amp., Filter.	2431
Kyoritsu digital clamp meter AC leakage, 40mm Dia., AC 400Amp., Filter, Peak 10ms.	2433
Kyoritsu digital clamp meter AC leakage, 40mm Dia., AC 500Amp., Filter, Output.	2412
Kyoritsu digital clamp meter AC leakage, 68mm Dia., AC 1000Amp., Filter, Output, Peak 10ms.	2413F
Kyoritsu digital clamp meter AC leakage, True RMS, 40mm Dia., AC 400Amp., Filter, Peak 10ms.	2433R
Kyoritsu digital clamp meter AC leakage, 68mm Dia., AC 1000Amp., True RMS	692413R

Insulation testers

Model 3132A

- 3 insulation test ranges - 250/500/1000V
- Easy-to-read multi colour scales eliminates reading errors
- Compact and easy to use

- Live circuit warning buzzer and neon lamp for added safety
- Automatic discharge of circuit capacitance
- Dust and drip proof construction

Description	Item no.
Analogue Insulation Testers	
Kyoritsu analogue insulation/continuity tester (250V/500V/1000V)	3132A
Kyoritsu analogue insulation/continuity tester with backlight (250V/500V/1000V)	693131A
Kyoritsu analogue insulation tester (500V)	3165
Kyoritsu analogue insulation tester (1000V)	3166
Kyoritsu mining insulation tester (250V/500V/1000V) with hard case & fixed leads	3131M
Digital Insulation Testers	
Kyoritsu digital Insulation/continuity tester (250V/500V/1000V)	3005A
Kyoritsu digital Insulation/continuity tester with backlight (250V/500V/1000V)	3007A
Kyoritsu digital Insulation/continuity tester with memory (125V/250V/500V/1000V)	3021
Kyoritsu digital Insulation/continuity tester with memory (50V/100V/250V/500V)	3022
Kyoritsu digital Insulation/continuity tester with memory (100V/250V/500V/1000V)	3023



3132A



3007A

High voltage insulation testers

Model 3128

- Test voltage 12kV, Resistance 35TΩ, Short-circuit Current 5mA
- CAT IV 600V rating
- Robust design for field use with IP64 rating (with lid closed)

- Internal memory, print screen & USB adaptor plus software
- Automatic discharge after test and display of discharge voltage
- Polarization index (PI), Dielectric Absorption Ratio (DAR), Dielectric discharge index (DDI), Step Voltage (SV), leakage current

Description	Item no.
Kyoritsu analogue HV insulation tester 2.5kV	3121A
Kyoritsu analogue HV insulation tester 5kV	3122A
Kyoritsu analogue HV insulation tester 5/10kV	3123A
Kyoritsu analogue HV insulation tester 1 - 10kV	3124
Kyoritsu digital HV insulation tester 5kV	3125
Kyoritsu digital HV insulation tester 5kV with DAR & filter function	3126
Kyoritsu digital HV insulation tester 12kV	693128



693128

Earth testers

Model 4105A

- Dust & drip proof construction (Designed to IEC 529 IP54)
- Capable of measuring earth voltage
- 2mA measuring current of circuit under test

- Automatic warning in excess of resistance tolerance
- 2mA measuring current permits earth resistance tests without tripping earth leakage current breakers in the circuit under test

Description	Item no.
Kyoritsu analogue earth tester	4102A
Kyoritsu analogue earth resistance tester (Hard Case)	4102A-H
Kyoritsu digital earth tester	4105A
Kyoritsu digital earth resistance tester (Hard Case)	4105A-H
Kyoritsu analogue earth resistance tester 4 wire	4106
Kyoritsu digital earth tester clamp	4200



4105A

Loop impedance testers

Model 4118A

- Custom micro processor controlled
- Direct reading of prospective short circuit current
- Measures low loop resistance resolution 0.01 ohm
- Large custom digital display readout

Description	Item no.
Kyoritsu digital loop impedance tester with PSC	4118A
Kyoritsu Loop/PSC/PFC tester with ATT, phase rotation, V & Hz	4140
Kewtech KT45 Loop/PSC with ATT	69KT45
Kewtech KT60 Loop/PSC/RCD with ATT	69KT60



4118A

Multi function testers

Model 6010B

- Continuity 20/200 ohm 200mA Test Current
- Insulation 500/1000V, 20/200M ohm 1mA Rated Test Current
- Loop Impedance 20/2000 ohm 15mA Test Current at 2000 ohm (No RCD Trip)
- RCD 10/30/100/300/500mA x1/2, x1, Fast Trip (40ms), DC, Auto Ramp
- Uc (Contact Voltage) 100V
- Designed to IEC 61010-1, IEC 61557
- Data Memory : 300 measured results
- PC Download Using 8212 Data Communication Adapter

Description	Item no.
Kyoritsu digital multi function tester (4 in 1) continuity, loop, insulation and RCD	6010A
Kyoritsu digital multi function tester (5 in 1) with memory/communication function	696010B
Kyoritsu digital multi function tester (5 in 1) continuity, loop, insulation, RCD and PSC	6011A
Kyoritsu digital multi function 10 in 1 tester with anti-trip	696016



696010B

RCD/ELCB testers

Model 5406A

- Custom Microprocessor controlled
- 0-180 degree phase angle switch
- Digital readout of tripping time
- Test DC sensitive breakers
- Constant current source circuitry

Description	Item no.
Kyoritsu digital RCD/ELCB tester with Auto Ramp.	5406A
Kyoritsu digital RCD/ELCB tester 100 – 400V operating voltage. Battery operated	695410



5406A

Portable appliance testers

Model 6201A

- Suitable for performing tests required by AS/NZS3760
- LED indicator for pass/fail result
- Insulation resistance test
- AC voltmeter for measuring mains voltage

Description	Item no.
Kyoritsu Model 6201A with Leakage current test + Earth bond test at 10A	696201A



696201A

Ancillary products

Test and measurement



8035

Phase rotation meters

Model 8035

- Non contact phase rotation testing
- The insulated crocodile clips for cables from $\varnothing 2.4$ to 30mm.
- Wide measuring range for 3 phase installations from 70V to 1000V AC
- CAT. IV 600V and CAT. III 1000V rated

Description	Item no.
Kyoritsu phase indicator with open phase checker	8031
Kyoritsu phase indicator with open phase checker with alligator fused test leads	8031F
Kyoritsu non contact phase indicator	8035



5202

Lux meters

Model 5202

- 3 ranges changeable from low to high illuminance
- 200/2000/20000 lux
- Data hold function
- Separate light receiving sensor

Description	Item no.
Kyoritsu lux meter digital	5202



5510

Temperature indicators infrared

Model 5510

- Wide temperature range - 40 to 300 C
- Dust proof & waterproof construction to IP67
- Shock proof construction drop test to 1 metre
- Auto power off for battery preservation

Description	Item no.
Kyoritsu digital Infrared thermometer (-40 deg C --- 300 deg C)	5510



698212USB

Clamps & accessories

Software/communication adaptors

Description	Item no.
RS232C Adaptor with KEW Report software	8212
USB Adaptor with KEW Report software	698212USB
USB Adaptor with KEW Windows software for 3128	8212USB-W



8115

Clamp adaptors

Description	Item no.
Kyoritsu AC clamp adaptor for DMM (Max. AC120A)	8112
Kyoritsu AC/DC clamp adaptor for DMM (max. AC 130A DC 180A)	8115

Clamps & accessories

Clamp sensors

Description	Type	5020	6305/ 6300	6315/ 6310	Item no.	
Clamp sensor AC 100A Ø 24mm		✓			698121	
Clamp sensor AC 500A Ø 40mm		✓			698122	
Clamp sensor AC 1000A Ø 55mm		✓			698123	
Clamp sensor AC 1000A Ø 68mm			✓	✓	8124	
Clamp sensor AC 500A Ø 40mm			✓	✓	8125	
Clamp sensor AC 200A Ø 40mm	Load current		✓	✓	8126	
Clamp sensor AC 100A Ø 24mm			✓	✓	8127	
Clamp sensor AC 5-50A Ø 24mm				✓	✓	8128
Flexible clamp sensor 1CH 3000A Ø 150mm			✓	✓	✓	698129-01
Flexible clamp sensor 3CH 3000A Ø 150mm		✓	✓	✓	698129-03	
Flexible clamp sensor 1CH 1000A Ø 110mm		✓	✓	✓	8130-01	
Flexible clamp sensor 3CH 1000A Ø 110mm		✓	✓	✓	8130-03	
Leakage clamp sensor 1000mA max. Ø 24mm	Leakage current	✓		✓	8141	
Leakage clamp sensor 1000mA max. Ø 40mm		✓		✓	8142	
Leakage clamp sensor 1000mA max. Ø 68mm		✓		✓	8143	
Voltage sensor		✓			698309	
Carrying case with magnet			✓	✓	699132	
Source power supply adaptor			✓	✓	8312	



8130



8125

Fuses & test leads

Description	Item no.
KYORITSU Fuse (0.8A/600V) for 1011/1012	8918
KYORITSU Fuse (10A/600V) for 1009/1011/1012	8919
KYORITSU Fuse (500mA/600V) for 1009/3132A	8923
KYORITSU Fuse (440mA/1000V) for 1051/1052/1061/1062	8926
KYORITSU Fuse (10A/1000V) for 1051/1052/1061/1062	8927
FUSE S505/6.3A to suit 6010A	696010AFUSE
10A 600V Ceramic Fuse for 6201A	69AA6201004
Battery Holder to suit 6010A	6010A001
Test Leads 7019 to suit 5402D	7019
Test Leads 7066 to suit 1009/1011/1012/2007A/2040/2046R/2055/2056R	7066
Test Leads 7121 to suit 4118A/5406A/6050	7121
Test Leads 7122 to suit 3132A/6010A/6010B/6011A	7122
Power Cord AU 7123	7123
Test Lead to suit 6201A	7129
Test Leads 7133 to suit 6010A/6010B/6011A	7133
Test Leads 7154B (Non-Fused) w/ Crocodile Clip & Probes	7154B
Flat Test Bar (BLACK) to suit 6201A	7161A
Test Leads KAMP10 to suit 6010A/6010B/6011A	KAMP10
Adaptor for Extension Cord for 6201A	697140
Kyoritsu power pack 12V DC 5A to suit 3124	3124PPACK



8923



7154B

Ancillary products

Metering



Metering devices

Power Xpert meters

The Power Xpert Meter 4000

"This meter provides all the core functions for monitoring power consumption and power quality along with 2 GB of data storage. It captures fast voltage changes, low frequency transients and reviews individual harmonic levels directly on the meter"

The Power Xpert Meter 6000

This meter provides all the functionality of the Power Xpert 4000 plus enhanced power quality monitoring with automatic industry standard trigger settings. It also offers a larger 4 GB of data storage.

The Power Xpert Meter 8000

This meter provides all the functionality of the Power Xpert 6000 and adds the ability to capture very fast transients by sampling at 6 MHz—100,000 samples per cycle. That's a sample every 166 nanoseconds, across three input channels as well as neutral-to-ground. In addition, it has a capacity of 8 GB for data storage.

Type	Item no.
PXM 4000 Meter, 2 GB, AC, no options	PXM4051A1AA
PXM 4000 Meter, 2 GB, AC, w/ Com. Exp. Card	PXM4051A1BA
PXM 4000 Meter, 2 GB, AC, w/ Com. Exp. & I/O Cards	PXM4051A1BB
PXM 6000 Meter, 4 GB, AC, no options	PXM6051A1AA
PXM 6000 Meter, 4 GB, AC, w/ Com. Exp. Card	PXM6051A1BA
PXM 6000 Meter, 4 GB, AC, w/ Com. Exp. & I/O Cards	PXM6051A1BB
PXM 8000 Meter, 8 GB, AC, no options	PXM8051A1AA
PXM 8000 Meter, 8 GB, AC, w/ Com. Exp. Card	PXM8051A1BA
PXM 8000 Meter, 8 GB, AC, w/ Com. Exp. & I/O Cards	PXM8051A1BB

Accessory	Item no.
PXM meter graphic display module	PXD-MMG
PXM bracket for back-to-back meter to display mounting	PX-PMBA
PXM I/O card	PXMIO-B
PXM Com Exp. Card: Ethernet 100FX, 10/100T, RS-485, RS-232	PXMCE-B

Power Xpert meter 2000 range

Power Xpert Meter 2250

"This meter provides all the core functions for monitoring power consumption and power quality along with 256 MB for data logging, Ethernet connectivity and onboard Gateway Card limits. This unit uses D/A technology to sample circuits at 400 samples per cycle for accurate measurement of power factor and energy consumption.

Power Xpert Meter 2260

This meter adds the ability to monitor total harmonic distortion and the ability to set onboard meter limits. The meter also will illuminate LEDs on the faceplate, indicating that a limit has been exceeded. This meter comes standard with 512 MB for data logging.

Power Xpert Meter 2270

This meter adds the ability to monitor individual harmonics and to visualize waveforms on your desktop using the embedded Web server. This meter comes with 768 MB for data logging.



Type	Item no.
PXM2250 Meter/Display 50Hz 5A 90-265V AC/DC	PXM2250MA55105
PXM2260 Meter/Display 50Hz 5A 90-265V AC/DC	PXM2260MA55105
PXM2270 Meter/Display 50Hz 5A 90-265V AC/DC	PXM2270MA55105
PXM2250 Meter/Display 50Hz 1A 90-265V AC/DC	PXM2250MA51105
PXM2260 Meter/Display 50Hz 1A 90-265V AC/DC	PXM2260MA51105
PXM2270 Meter/Display 50Hz 1A 90-265V AC/DC	PXM2270MA51105

Accessory	Item no.
PXM 2000 I/O Card—two relay outputs/two status inputs	IQ250/260-I01
PXM 2000 I/O Card—four KYZ pulses/four status inputs	IQ250/260-I02
PXM 2000 I/O Card—four analog outputs—0–1 mA	IQ250/260-I03
PXM 2000 I/O Card—four analog outputs—4–20 mA	IQ250/260-I04
Mounting assy for retrofitting a PXM2000 to an IQ Analyzer/DP-4000/data cutout	IQ250-PMAK

Metering devices

IQ 250/260 range

The IQ 250 & IQ 260 electronic meters provide capabilities you wouldn't normally expect in an affordable, compact meter—such as fast sampling rate & accurate metering for a full range of power attributes. The meter can be configured either from the easy-to-read display or remotely (accessible via a Power Xpert Gateway) for upgrades to input/output option cards.

Eaton's IQ 250 & IQ 260 meters provide direct-reading metered values for the most critical power aspects, such as watts, watt demand, watt-hours, voltage-amperes (VA), VA-hours, vars, var-hours & power factor. They have high sampling speed & accuracy. The IQ 260 meter also measures power quality, such as total harmonic distortion (THD) up to the 40th order. The IQ 260 also provides configurable limit alarming/control

capability of up to eight measured parameters for more sophisticated power management.

Features

- Comprehensive metering
- High-end accuracy
- Self-test capability to validate accuracy
- Large, easy-to-read display
- Local or remote configuration
- Industry-standard communication protocols (Modbus)
- Mix-and-match input/output options
- Integration with Eaton's Power Xpert Architecture
- Field-upgradeable



IQ 100 range

Providing the first line of defense against costly power problems, Eaton's IQ 100 electronic power meters can perform the work of an entire wall of legacy metering equipment utilizing today's technology. Eaton's IQ 100 meters use 24-bit AD converters that sample at more than 400 samples per cycle & meet ANSI C12.20 standards for accuracy of 0.5 percent. With such high-performance measurement capability, these meters can be confidently used for primary revenue metering & sub-metering applications.

Eaton's IQ 100 meters provide direct-reading metered values for the most critical power

aspects, such as watts, watt demand, watt hours, voltage-amperes (VA), VA-hours, vars, var hours & power factor. They have high sampling speed & accuracy.

Applications

- Utility & commercial metering
- Substations, industrial facilities, power generation sites & campuses
- Sub-metering
- Load studies & voltage recording
- Analogue meter replacement



Power meters CVM-MINI range

The CVM-MINI is an instrument which measures, calculates & displays the main electrical parameters for three-phase industrial systems (balanced or unbalanced). Measurements are in true effective value, via three AC voltage inputs & three AC current inputs.

Other features include:

- Current measuring .../5 or .../1A
- DIN rail format with only 3 modules
- Assembly on the 72 x 72mm panel with frontal adaptor (M5ZZF1)
- RS-485 Communications (Modbus-RTU)
- Two transistor outputs
- Sealable

Description	Type	Item no.
3PH DIN Power Analyser	CVM-MINI	M52000
3PH DIN Power Analyser with isolated inputs	CVM-MINI-ITF-C2	M52010
3PH DIN Power Analyser with RS485 comms	CVM-MINI-ITF-RS485-C2	M52021
3PH DIN Power Analyser with Harmonics & RS485 comms	CVM-MINI-ITF-HAR-RS-485-C2	M52031
3PH DIN Power Analyser with Ethernet	CVM-MINI-ITF-ETHERNET-C2	M520J1
3PH DIN Power Analyser with BACnet	CVM-MINI-ITF-BACnet-C2	M520F1
3PH DIN Power Analyser with LonWorks	CVM-MINI-ITFLonWorks-C2	M52091
72mm x 72mm Panel Adaptor	CVM-MINI Panel Adaptor	M5ZZF1



CVM-MINI Series

Single phase power analyser CVM-1D

CVM-1D is a power analyser for single phase circuits upto 32A. It has an LCD display with a rotation screen system, showing a total of 24 instantaneous, maximum and minimum electrical variables.

Description	Type	Item no.
Single Phase 32A Direct DIN Rail Power Meter	CVM-1D-C	M55510
Single Phase 32A Direct DIN Rail Power Meter with RS485	CVM-1D-C-RS485	M55511



CVM-1D

Ancillary products

Metering



CVMk2

Power analyser - Circutor

CVMk2 modular power analyzer

The CVMk2 Series is a modular programmable power meter that measures more than 300 electrical parameters of balanced or unbalanced three-phase electrical networks. All measurements are true RMS values & 4C, that are sourced by means of three A.C. voltage inputs & three A.C. Current inputs via.../5Amp current transformers. Unit is composed of measuring module & display module. It can be panel mounted: 144 x 144, 96 x 96 & round profile.

Description	Model no.	Item no.
CVMk2 modular power analyzer 3 phase Modbus RTU RS485 Class 0.5	CVMk2-ITF-405	M54400
CVMk2 modular power analyser 3 phase Modbus RTU RS485 Class 0.2	CVMk2-ITF-402	M54402
CVMk2 3 phase class 0.5 measurement module only	M-CVMk2-ITF-405	M54410
CVMk2 3 phase class 0.2 measurement module only	M-CVMk2-ITF-402	M54412
CVMk2 display only	D-CVM-K2	M54420

Expansion modules

Type	Outputs	2 GB Memory	Digital I/O	Analogue I/O	Com	Item no.
k2-EXP-8I / 8O-Digital-TR Card	Static	-	8/8	-	-	M54501
k2-EXP-8I / 4O-Analogue Card	Analogue	-	-	8/4	-	M54502
k2-EXP-8I / 4O-Digital-RL Card	Relay	-	8/4	-	-	M54503
k2-EXP-SD-MODBUS/TCP Card	-	I	-	-	Ethernet Modbus/TCP	M54504
k2-EXP-SD Card	-	I	-	-	-	M54506
Exp. Card 4 S analogue + 4 S static. ±5 mA	Static	-	4	4	-	M54507
PROFIBUS Card	-	-	-	-	Profibus	M5450A



CVM - 96 series
Size: 96mm x 96mm

Power meters

CVM96 range

The CVM96 Series is a programmable power meter that measures the electrical parameters of balanced or unbalanced three-phase electrical networks. All measurements are true RMS values that are sourced by means of three A.C. voltage inputs & three A.C. Current inputs via .../5Amp current transformers. The CVM Series can display up to 43 different parameters depending requirements & selection of device.

CVM - 96 Meter Type	Three-phase 50...60 Hz	True RMS value	LED Display	Isolated Current Inputs ITF	2 Quadrants	Physical interface	Communication protocol	Relay Outputs	Energy	Measuring THD (V/A)	Harmonic Measuring up to 31	Maximum demand	Neutral Current	Item no.
CVM 96	•	•	•	-	•	-	-	-	•	•	-	•	-	M51100
CVM 96-ITF	•	•	•	•	•	-	-	-	•	•	-	•	-	M51200
CVM 96-ITF, RS485 C2	•	•	•	•	•	R	MR	2	•	•	-	•	-	M51211
CVM96-ITF, Ethernet C2 TCP	•	•	•	•	•	E	MT	2	•	•	-	•	-	M51231
CVM 96-ITF, JC-C2	•	•	•	•	•	R	JC	2	•	•	-	•	-	M51711
CVM 96-F-ITF, RS485-C2-HAR-IN	•	•	•	•	•	R	MR	2	•	•	•	•	•	M51513

R=RS485
E=Ethernet
MR=Modbus / RTU
MT=Modbus / TCP
JC=Johnson Contro

Power analyser - Circutor

Power meters

CVM NRG Series

The CVM Series is a programmable power meter that measures the electrical parameters of balanced or unbalanced three-phase electrical networks. All measurements are true RMS values that are sourced by means of three A.C. voltage inputs & three A.C. Current inputs via .../5Amp current transformers. The CVM Series can display up to 43 different parameters depending requirements & selection of device.

Description	Item no.
CVM-NRG 96	M51800
CVM-NRG 96-ITF	M51900
CVM-NRG 96-ITF-RS485C	M51911
CVM-NRG 96-ITF-HAR-RS485-C	M51B11



CVM NRG 96 series
Size: 96mm x 96mm

CVM144 range

The CVM Series is a programmable power meter that measures the electrical parameters of balanced or unbalanced three-phase electrical networks. All measurements are true RMS values that are sourced by means of three A.C. voltage inputs & three A.C. Current inputs via .../5Amp current transformers. The CVM Series can display up to 43 different parameters depending requirements & selection of device.



CVM - 144 series
Size: 144mm x 144mm

CVM-144 Meter Type	Quadrants	Class (V, A)	Communications	Protocol	Harmonics	Item no.
CVM 144	2	0.5	-	-	-	M50600
CVM 144-ITF	2	0.5	-	-	-	M50700
CVM 144-ITF-HAR	2	0.5	-	-	U/I (31°)	M50A60
CVM 144-Ethernet-TCP	2	0.5	Ethernet	Modbus/TCP	-	M50790
CVM 144-ITF-Profibus	2	0.5	RS485	Profibus DP	-	M50730
CVM 144-ITF-Johnson Controls	2	0.5	RS485	Johnson Controls	-	M50C10

RS=RS485
E=Ethernet
P=Profibus
M=Modbus/RTU

Expansion Modules for CVM 144

Module Type	Digital outputs	Digital inputs	Communications	Protocol	Current leakages / neutral	Item no.
CVM 144-C2-Currents Module	2	-	-	-	Yes	M51001
CVM 144-RS-485-C2 Module	2	-	RS-485	Modbus/RTU	-	M51010
CVM 144-RS-485-C2-Currents Module	2	-	RS-485	Modbus/RTU	Yes	M51011
CVM 144-RS-485-C2-Digital Module	2	4	RS-485	Modbus/RTU	-	M51016
CVM 144-RS-232-C2 Module	2	-	RS-232	Modbus/RTU	-	M51020

Ancillary products

Metering



Energy meters - Circutor

Electrical energy meters

The consumption of energy can become difficult to measure in situations of multiple loads & different tariffs. Circutor is able to offer a complete solution.

The product range includes single phase digital & mechanical meters that can measure consumption at pre-determined locations to control each sector of the project. Three phase active & reactive electronic meters are also available for monitoring the different electrical services, or machines that may be installed within the facility.



EDMk-ITF-C2



EMS30C



MK60-LCD



CEP-96



TCP2RS-TCP



Single phase energy meters, direction connection, DIN rail mounting

Description	Model no.	Item no.
EMS30C 1-Phase kW.h 5A (max. 30A) Mechanical 1 Module	EMS30C	M31611
EM 30-C 1-Phase kW.h 5A (max. 30A) Mechanical 2 Module	EM30C	M30811
MK30 M 1-Phase kW.h 30A (max. 60A) Mechanical 4 Module	MK30M	M30110
MK60 M 1-Phase kW.h 60A (max. 120A) Mechanical 4 Module	MK60M	M30210
MK30-LCD 1-Phase kW.h 30A (max. 60A) Digital	MK30-LCD	M30120
MK30-LCD-RS485 1-Phase kW.h 30A (max. 60A) Digital w/ RS485	MK30-LCD-RS485	M30121
MK60-LCD 1-Phase kW.h 60 A (max. 120A) Digital	MK60-LCD	M30220
MK60-LCD-RS485 1-Phase kW.h 60A (max. 120A) Digital w/ RS485	MK60-LCD-RS485	M30221

Three phase energy meters, direction connection, DIN rail mounting

Description	Tariff	Model no.	Item no.
MKB 363M-400V phase-phase kW.h 63A, Mechanical	1	MKB363M	M30310
MKD-ITF-C2 three-ph meter 4 quadrant 40A(mx.120A) Digital	1	MKD-ITF-C2	M33000
MKD-ITF-RS485-I2-C2 three-ph 4 quadrant 40A(mx.120A) Digital + RS485	3	MKD-ITF-RS485-I2-C2	M33011

Three phase energy meters, external current transformers

Description	Tariff	Model no.	Item no.
CEP96 3-ph kW.h Digital Energy Meter.../5A Panel Mount	-	CEP-96	M30701
EDMk-ITF-C2 3-ph Digital Energy KWh/KVAR DIN Rail	1	EDMk-ITF-C2	M31741
EDM3k-ITF-C2 3-ph Digital Energy Meter KWh/KVARh	3	EDM3k-ITF-C2	M31743
EDMk-ITF-C2 3-ph Digital Energy Meter KWh/KVARh + RS485	1	EDMk-ITF-RS485	M31751
EDMk Panel Adapter	-	-	M5ZZF1

Impulse centralisation units

Description	Inputs	Model no.	Item no.
LM25-M Pulse Concentrator (RS485, Modbus/RTU)	25	LM25-M	M31567
LM50-TCP 19200 bps (Ethernet, Modbus/TCP)	50	LM50-TCP	M31531
LM50-TCP+ 4800-115200 bps (Ethernet, Modbus/TCP)	50	LM50-TCP+	M31566
LM4I/4O Centralisation Unit 4 inputs/4 outputs + RS485 (Modbus/RTU)	4I/4O	LM4I/4O-M	M31563

Convertors

Description	Model no.	Item no.
TCP2RS Converter RS-232/RS-485 to Ethernet	TCP2RS	M54032
TCP2RS+ Converter RS-232/RS-485 to Ethernet with web server	TCP2RS+	M54033
USB to RS-485 Converter	USB-TCP	M54040

Software

Description	Model no.	Item no.
Power Studio Energy Monitoring & Control Software (Basic Package)	POWERSTUDIO	M90211
Power Studio Energy Monitoring & Control Software (Full Package)	POWERSTUDIO SCADA	M90231
Power Studio Energy Monitoring & Control Software (Deluxe Version)	POWERSTUDIO DELUXE	M90241

Current transformers - Circutor

TC range - Berg range - Classes: 0.5, 1 or 3

The TC range (Berg Range) is specifically designed for use in those places with a limited space, such as situations where there is minimum separation between busbars or circuit breakers.

A	Burden (VA)			Primary window	Size (mm)	Model no.	Item no.
	Class 0,5	Class 1	Class 3				
50/5	-	-	1		70 x 46	TC 4	M703D5
60/5	-	-	1.25	PASSING BAR	70 x 46	TC 4	M703D6
75/5	-	-	1.25	Busbar:	70 x 46	TC 4	M703D7
100/5	-	2	3	30 x 10 mm	70 x 46	TC 4	M703D8
125/5	-	2.5	2.75	20 x 10 mm	70 x 46	TC 4	M703D9
150/5	1.5	2.5	4	25 x 5 mm	70 x 46	TC 4	M703DA
200/5	2.5	5	6	cable: Ø 21 mm	70 x 46	TC 4	M703DB
40/5	-	-	1.50		70 x 58	TC 5	M70311
50/5	-	-	3.00		70 x 58	TC 5	M70312
60/5	-	1.25	3.50	PASSING BAR	70 x 58	TC 5	M70313
75/5	-	2	3.50	Busbar:	70 x 58	TC 5	M70314
100/5	1.5	2.5	3.75	25 x 5 mm	70 x 58	TC 5	M70315
125/5	1.75	3.5	5.00	cable: Ø 20 mm	70 x 58	TC 5	M70316
150/5	2.5	3.5	5.00		70 x 58	TC 5	M70317
200/5	3.75	5	5.00		70 x 58	TC 5	M70318
250/5	5	7.5	7.50		70 x 58	TC 5	M70319
100/5	-	1	1.5		70 x 58	TC 5.2	M70321
125/5	-	1.5	2		70 x 58	TC 5.2	M70322
150/5	1	2	2.5	PASSING BAR	70 x 58	TC 5.2	M70323
200/5	2.5	3	3.5	Busbar:	70 x 58	TC 5.2	M70324
250/5	3.5	3.75	5	20 x 12mm,	70 x 58	TC 5.2	M70325
300/5	3.5	3.75	5	25 x 10mm,	70 x 58	TC 5.2	M70326
400/5	3.5	5	7.5	30 x 10mm	70 x 58	TC 5.2	M70327
500/5	5	7.5	10	Cable: Ø 22mm	70 x 58	TC 5.2	M70328
600/5	5	7.5	10		70 x 58	TC 5.2	M70329
100/5	1.75	3.75	7.5		80.5 x 64	TC 6.2	M70341
125/5	3.75	7.5	10.00		80.5 x 64	TC 6.2	M70342
150/5	5	7.5	10.00		80.5 x 64	TC 6.2	M70343
200/5	7.5	10	10.00	PASSING BAR	80.5 x 64	TC 6.2	M70344
250/5	7.5	10	15.00	Busbar:	80.5 x 64	TC 6.2	M70345
300/5	10	10	15.00	30 x 10 mm	80.5 x 64	TC 6.2	M70346
400/5	10	10	15.00	cable: Ø 26 mm	80.5 x 64	TC 6.2	M70347
500/5	15	15	20.00		80.5 x 64	TC 6.2	M70348
600/5	15	20	25.00		80.5 x 64	TC 6.2	M70349
150/5	1	3.5	5.00		80.5 x 64	TC 6	M70331
200/5	3.5	5	7.5		80.5 x 64	TC 6	M70332
250/5	5	7.5	10		80.5 x 64	TC 6	M70333
300/5	5	7.5	10.00	PASSING BAR	80.5 x 64	TC 6	M70334
400/5	5	7.5	10.00	Busbar:	80.5 x 64	TC 6	M70335
500/5	7.5	10	15.00	40 x 10 mm	80.5 x 64	TC 6	M70336
600/5	7.5	10	15.00	cable: Ø 28 mm	80.5 x 64	TC 6	M70337
750/5	10	15	20.00		80.5 x 64	TC 6	M70338
800/5	10	15	20.00		80.5 x 64	TC 6	M70339



TC 4



TC 5



TC 5.2



TC 6.2



TC 6

Current transformers - Circutor

TC range - Berg range - Classes: 0.5, 1 or 3

The TC range (Berg Range) is specifically designed for use in those places with a limited space, such as situations where there is minimum separation between busbars or circuit breakers.



TC 8



TC 10



TC 12



P19921



M79951

A	Burden (VA)			Primary Window	Size (mm)	Model no.	Item no.	
	Class 0,5	Class 1	Class 3					
200/5	1	2.5	5	PASSING BAR Busbar: 60 x 12 mm cable: Ø 44 mm	102 x 84.5	TC 8	M7036C	
300/5	2.5	5	7.5		102 x 84.5	TC 8	M7036B	
400/5	5	7.5	10.00		102 x 84.5	TC 8	M70361	
500/5	7.5	10	15.00		102 x 84.5	TC 8	M70362	
600/5	10	15	20.00		102 x 84.5	TC 8	M70363	
750/5	15	20	25.00		102 x 84.5	TC 8	M70364	
800/5	15	20	30.00		102 x 84.5	TC 8	M70365	
1000/5	15	20	30.00		102 x 84.5	TC 8	M70366	
1200/5	15	20	30.00		102 x 84.5	TC 8	M70367	
1500/5	15	20	30.00		102 x 84.5	TC 8	M70368	
1600/5	15	20	30.00		102 x 84.5	TC 8	M70369	
200/5	1	2.5	5		PASSING BAR Busbar: 80 x 30mm cable: Ø 63mm	130 x 108	TC 10	M7037F
300/5	2.5	5	7.5			131 x 108	TC 10	M7037D
400/5	2.5	5	7.5	132 x 108		TC 10	M7037G	
500/5	5	7.5	10	133 x 108		TC 10	M7037B	
600/5	7.5	10	15	134 x 108		TC 10	M7037C	
800/5	7.5	10	15	135 x 108		TC 10	M70372	
1000/5	10			130 x 108		TC 10	M70373	
1200/5	10			130 x 108		TC 10	M70374	
1600/5	15			130 x 108		TC 10	M70376	
2000/5	15			130 x 108		TC 10	M70377	
2500/5	15			130 x 108		TC 10	M70378	
3000/5	15			130 x 108		TC 10	M70379	
800/5	10	15	20	PASSING BAR Busbar: 3x100x10mm		150 x 129	TC 12	M7038B
1000/5	10	15	20		151 x 129	TC 12	M70381	
1200/5	10	15	20		152 x 129	TC 12	M70382	
1250/5	10	15	20		153 x 129	TC 12	M7038D	
1500/5	10	20	30		154 x 129	TC 12	M70383	
1600/5	15				150 x 129	TC 12	M70384	
2000/5	15				150 x 129	TC 12	M70385	
2500/5	20				150 x 129	TC 12	M70386	
3000/5	30				150 x 129	TC 12	M70387	
4000/5	35				150 x 129	TC 12	M70388	

Current transformer - accessories

Description	Item no.
Accessory to mount the TC5, TC5.2, TC6, TC6.2 transformers on a DIN rail	P19921
Accessory to seal the secondary side terminal on the TC type transformers	M79951

Current transformers - Circutor

TP range- current transformers - split core

Circutor offer the most comprehensive range of Split C.T.s in providing flexibility for upgrading or retrofitting into existing switchboard assemblies.

A	Burden & accuracy	Primary window	Size (mm)	Model No.	Item no.
100/5	1.5 VA class 3	PASSING BAR Busbar: 20 x 30mm	110 x 89	TP - 23	M70111
150/5	2 VA class 3		110 x 89	TP - 23	M70112
200/5	1.5 VA class 1		110 x 89	TP - 23	M70113
250/5	2 VA class 1		110 x 89	TP - 23	M70114
300/5	1.5 VA class 0.5		110 x 89	TP - 23	M70115
400/5	2.5 VA class 0.5		110 x 89	TP - 23	M70116
250/5	1 VA class 0.5	PASSING BAR Busbar: 50 x 80mm	145 x 114	TP - 58	M70121
300/5	1.5 VA class 0.5		145 x 114	TP - 58	M70122
400/5	1.5 VA class 0.5		145 x 114	TP - 58	M70123
500/5	2.5 VA class 0.5		145 x 114	TP - 58	M70124
600/5	2.5 VA class 0.5		145 x 114	TP - 58	M70125
750/5	3 VA class 0.5		145 x 114	TP - 58	M70126
800/5	3 VA class 0.5		145 x 114	TP - 58	M70127
1000/5	5 VA class 0.5		145 x 114	TP - 58	M70128
250/5	1 VA class 0.5	PASSING BAR Busbar: 80 x 80mm	145 x 144	TP - 88	M70131
300/5	1.5 VA class 0.5		145 x 144	TP - 88	M70132
400/5	1.5 VA class 0.5		145 x 144	TP - 88	M70133
500/5	2.5 VA class 0.5		145 x 144	TP - 88	M70134
600/5	2.5 VA class 0.5		145 x 144	TP - 88	M70135
750/5	3 VA class 0.5		145 x 144	TP - 88	M70136
800/5	3 VA class 0.5		145 x 144	TP - 88	M70137
1000/5	5 VA class 0.5		145 x 144	TP - 88	M70138
500/5	4 VA class 1	PASSING BAR Busbar: 80 x 120mm	185 x 144	TP - 812	M70141
600/5	5 VA class 1		185 x 144	TP - 812	M70142
750/5	2.5 VA class 0.5		185 x 144	TP - 812	M70143
800/5	3 VA class 0.5		185 x 144	TP - 812	M70144
1000/5	5 VA class 0.5		185 x 144	TP - 812	M70145
1200/5	6 VA class 0.5		185 x 144	TP - 812	M70146
1250/5	7 VA class 0.5		185 x 144	TP - 812	M70147
1500/5	8 VA class 0.5		185 x 144	TP - 812	M70148
1000/5	10 VA class 0.5	PASSING BAR Busbar: 80 x 160mm	245 x 184	TP - 816	M70151
1500/5	15 VA class 0.5		245 x 184	TP - 816	M70152
2000/5	15 VA class 0.5		245 x 184	TP - 816	M70153
2500/5	15 VA class 0.5		245 x 184	TP - 816	M70154
3000/5	20 VA class 0.5		245 x 184	TP - 816	M70155
4000/5	20 VA class 0.5		245 x 184	TP - 816	M70156
5000/5	20 VA class 0.5		245 x 184	TP - 816	M70157



TP-23



TP-58



TP-88



TP-812



TP-816

Industrial earth leakage protection

Multi function LCD electronic industrial earth leakage protection relays

Multifunction electronic industrial earth leakage protection relay that can offer protection, prevention & continuity. It utilises WG transformers, can be Din rail or panel mounted & comes with LCD display & programmable sensitivity/delay.



RGU - 10

MiS = micro second

Type	True RMS value	Din Rail/Panel	Class A Super immunised	Disconnection Between 80-100% of leakage current	High Frequency Filtering	8/20 MiS at 5KA 1.2/50 MiS at 5KV	Programmable Sensitivity/Delay	RS485 Communication	Manual Reset Power Failure	Item no.
RGU-10	•	•	•	•	-	•	•	-	•	3 P11941
RGU-10C	•	•	•	•	•	•	•	•	•	3 P11944

Accessory for panel mounting M5ZZF1.

WG earth leakage transformers (supports RGU-10 Relay)

WG series can cover diameter range of 20mm up to 210mm protected against harmonics & disturbances. They support the RGU-10 relays.



WG Series

Type	Description	Item no.
WGS-20	20mm Diameter	P10131
WGS-30	30mm Diameter	P10132
WGS-35	35mm Diameter	P10111
WGS-70	70mm Diameter	P10112
WGS-105	105mm Diameter	P10113
WGS-140	140mm Diameter	P10114
WGS-210	210mm Diameter	P10115

Electronic earth leakage relays with external transformer WN Series

An electronic industrial earth leakage protection relay that can offer protection & prevention. It is DIN Rail mounted & utilises external transformers WN Series.



RN Relay

Type	True RMS value	Sensitivity F=Fixed A=Adjustable	Delay F=Fixed A=Adjustable	Class A Super Immunised	High Frequency Filtering	Leakage Indication (LED)	Manual Reset Power Failure	External Test	2 Modules Din Rail	Leakage Indication via LED	Multi Range Power Supply	Item no.
RN-10	•	A	A	•	•	•	•	•	•	•	•	P12140

WN earth leakage transformers (supports RN Relay)

WN series Leakage Transformers support the RN Relays covering diameters from 20mm up to 210mm.



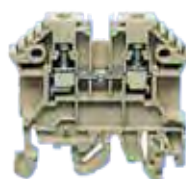
WNS/WN

Type	Description	Item no.
WN-140	140mm Diameter	P10214
WN-210	210mm Diameter	P10215

Feed-through terminals

Feed-through connection terminals (suitable for 35mm DIN rail & 32mm G rail)

Type	2.5mm	4mm
Current	26 amps - 750V / 24 amps - 800V	34 amps - 750V / 32 amps - 800V
Width / Strip Length / Screw	5mm / 7mm / M2.5	6mm / 12mm / M3
Cable	0.2mm-2.5mm stranded / 0.2mm -4mm solid	0.2mm-4mm stranded / 0.2mm-6mm solid



M 2.5



M 2.5

Description	Reference	2.5mm Item no.	Description	Reference	4mm Item no.
2.5mm terminal beige	1296.0	RK2.5PA	4mm terminal beige	1001.2	RK2.5-4PA
2.5mm terminal beige 10P	1297.2	KBL2.5PA	4mm terminal beige 10P	1002.2	KBL2.5-4PA
End plate beige	2001.2	AP2.5-10PA	End section beige	2001.2	AP2.5-10PA
Partition beige	2002.2	TW2.5-10PA	Partition beige	2002.2	TW2.5-10PA
2.5mm terminal red	1296.9	RK2.5PAR	4mm terminal red	1001.9	RK2.5-4PAR
End plate red	2001.9	AP2.5-10PAR	End plate red	2001.9	AP2.5-10PAR
2.5mm terminal white	1296.7	RK2.5PAW	4mm terminal white	1001.7	RK2.5-4PAW
End plate white	2001.7	AP2.5-10PAW	End plate white	2001.7	AP2.5-10PAW
2.5mm terminal blue	1296.5	RK2.5PAB	4mm terminal blue	1001.5	RK2.5-4PAB
End plate Blue	2001.5	AP2.5-10PAB	End plate Blue	2001.5	AP2.5-10PAB
Partition blue	2002.5	TW2.5-10PAB	Partition blue	2002.5	TW2.5-10PAB
Cross Connection 2P bare	2567.0	Q.22.5	Cross Connection 2P insul.	2740.2	QI24
Cross Connection 3P bare	2568.0	Q.32.5	Cross Connection 3P insul.	2741.2	QI34
Cross Connection 10P bare	2570.0	Q.102.5	Cross Connection 10P insul.	2743.2	QI104
Cross Connection 100P bare	2152.0	Q.0.5m	Cross Connection 83P bare	2153.0	Q.0.5m4
Cover (60mm)	2499.0	ADQ	Cover (60mm)	2499.0	ADQ
External jumper insulated 10P	2029.0	AQI10/5/15	External jumper insulated 10P	2143.0	AQI10/6/17
-	-	-	External jumper insulated 75P	2480.0	AQI75/6/17
Separator	2566.2	TRS3PA	Separator	2003.2	TRS
Test socket	2075.0	STB8.5/2.3	Test socket	2006.0	STB14/2.3
Test plug	2007.0	PS2.3	Test plug	2007.0	PS2.3
End clamp Economy TS35	2005.2	ES35PA	End clamp Economy TS35	2005.2	ES35PA
End clamp TS35 (9.5mm)	2828.0	ES35SKT	End clamp TS35 (9.5mm)	2828.0	ES35SKT
End clamp metal TS35 (11mm)	2761.9	HES35ST	End clamp metal TS35 (11mm)	2761.9	HES35ST

For marking systems, refer to 346

Ancillary products

Wiring accessories



M 4



M 5

Feed-through terminals

Feed-through connection terminals
(suitable for 35mm DIN rail & 32mm G rail)

Type	10mm	16mm
Current	61 amps - 750V / 57 amps - 800V	82 amps - 750V / 76 amps - 800V
Width / Strip Length / Screw	8mm / 12mm / M4	12mm / 15mm / M5
Cable	0.2mm-10mm stranded / 0.2mm -10mm solid	2.5mm-16mm stranded / 2.5mm-25mm solid

Description	Reference	10mm Item no.	Description	Reference	16mm Item no.
10mm terminal beige *	1005.2	RK6-10PA	16mm terminal beige *	1050.2	RK16PA
10mm terminal beige 10P *	1006.2	KBL6-10PA	-	-	-
End plate beige *	2001.2	AP2.5-10PA	End plate beige *	2104.2	AP16PA
Partition beige *	2002.2	TW2.5-10PA	Partition beige *	2105.2	TW16PA
10mm terminal red *	1005.9	RK6-10PAR			
End plate red *	2001.9	AP2.5-10PAW			
10mm terminal white *	1005.7	RK6-10PAW			
End plate white *	2001.7	AP2.5-10PAR			
6mm terminal blue *	1005.5	RK6-10PAB	16mm terminal blue *	1050.5	RK16PAB
End plate Blue *	2001.5	AP2.5-10PAB	End plate Blue *	2104.5	AP16PAB
Partition blue *	2002.5	TW2.5-10PAB	Partition blue *	2105.5	TW16PAB
Cross Connection 2P insul.	2750.2	QI210	Cross Connection 2P bare	2112.0	Q.216
Cross Connection 3P insul.	2751.2	QI310	Cross Connection 3P bare	2113.0	Q.316
Cross Connection 10P insul.	2753.2	QI1010	Cross Connection 10P bare	2115.0	Q.1016
Cover s (60mm)	2499.0	ADQ	Cover 1P	2819.0	AD1/12
External jumper insulated 2P	2067.0	AQI2/8/11			
External jumper insulated 3P	2068.0	AQI3/8/11			
Separator	2003.2	TRS			
Test Socket	2050.0	STB14/4			
Test Plug	2051.0	PS4			
End clamp Economy TS35	2005.2	ES35PA	End clamp Economy TS35	2005.2	ES35PA
End clamp TS35 (9.5mm)	2828.0	ES35KST	End clamp TS35 (9.5mm)	2828.0	ES35KST
End clamp metal TS35 (11mm)	2761.9	HES35ST	End clamp metal TS35 (11mm)	2761.9	HES35ST

For marking systems, refer to page 346

* Other colours available on request.

Feed-through terminals

Feed-through connection terminals
(suitable for 35mm DIN rail & 32mm G rail)

Type	35mm	50mm
Current	135 amps - 750V / 125 amps - 800V	168 amps - 1000V
Width / Strip Length / Screw	16mm / 20mm / M5 all.	20mm / 27mm / M8 all.
Cable	2.5mm-35mm stranded / 2.5mm -50mm solid	25mm-50mm stranded / 16mm-50mm solid



M 6



M 6

Description	Reference	35mm Item no.	Description	Reference	50mm Item no.
35mm terminal beige	1494.2	RK35PA	50mm terminal beige	1120.2	RK50PA
End plate beige	2116.2	AP35PA	End plate beige	-	Not Required
Partition beige	2117.2	TW35PA	Partition grey	-	Not Required
35mm terminal blue	1494.5	RK35PAB	35mm terminal blue	1120.5	RK50PAB
End plate Blue	2116.5	AP35PAB	End section Blue	-	Not Required
Partition blue	2117.5	TW35PAB	-	-	-
Cross Connection 2P bare	2164.0	Q.235	Cross Connection 2P insul.	2763.2	AQI250
Cross Connection 3P bare	2165.0	Q.335	Cross Connection 3P bare	2764.2	AQI350
Cross Connection 10P bare	2167.0	Q.1035			
Cover 1P	2820.0	AD1/16			
Test Socket	2127.0	STB16/4			
Test Plug	2051.0	PS4			
End clamp Economy TS35	2005.2	ES35PA	End clamp Economy TS35	2005.2	ES35PA
End clamp TS35 (9.5mm)	2828.0	ES35KST	End clamp TS35 (9.5mm)	2828.0	ES35KST
End clamp metal TS35 (11mm)	2761.9	HES35ST	End clamp metal TS35 (11mm)	2761.9	HES35ST

Type	95mm	150mm
Current	250 amps - 1000V	355 amps - 1000V
Width / Strip Length / Screw	25mm / 30mm / M8 all	31mm / 38mm / M10 all.
Cable	35mm-95mm stranded / 25mm -95mm solid	35mm-150mm stranded / 35mm-185mm solid



M 8



M 10

Description	Reference	95mm Item no.	Description	Reference	150mm Item no.
95mm terminal beige	1122.2	RK95PA	150mm terminal beige	1124.2	RK150PA
End plate	-	Not Required	End plate	-	Not Required
Partition	-	Not Required	Partion	-	Not Required
95mm terminal blue	1122.5	RK95PAB	150mm terminal blue	1124.5	RK150PAB
End plate	-	Not Required	End Plate	-	Not Required
Partition	-	Not Required	-	-	-
Cross Connection 2P insul.	2765.2	AQI295	Cross Connection 2P insul.	2767.2	AQI2150
Cross Connection 3P bare	2766.2	AQI395	Cross Connection 3P bare	2768.2	AQI3150
-	-	-	Warning Tag	2806.0	AD1/150
End clamp Economy TS35	2005.2	ES35PA	End clamp Economy TS35	2005.2	ES35PA
End clamp TS35 (9.5mm)	2828.0	ES35SKT	End clamp TS35 (9.5mm)	2828.0	ES35SKT
End clamp metal TS35 (11mm)	2761.9	HES35ST	End clamp metal TS35 (11mm)	2761.9	HES35ST

For marking systems, refer to page 346. For mounting rails, refer to page 347.

Ancillary products

Wiring accessories

Feed-through terminals

Feed-through connection terminals
(suitable for 35mm DIN rail & 32mm G rail)



M 10

Type	240mm	
Current	453 amps - 1000V	HSK High Current Terminals (available on request).
Width / Strip Length / Screw	36mm / 38mm / M10 all.	
Cable	70mm-240mm stranded / 70mm -240mm solid	

Description	Reference	240mm Item no.
240mm terminal beige	1126.2	RK240PA
End plate	-	Not Required
Partition	-	Not Required
240mm terminal blue	1126.5	RK240PAB
End Plate	-	Not Required
Cross Connection 2P insul.	2769.2	AQI2240
Cross Connection 3P bare	2770.2	AQI3240
Warning Tag	2808.0	AD1/240
End clamp Economy TS35	2005.2	ES35PA
End clamp TS35 (9.5mm)	2828.0	ES35SKT
End clamp metal TS35 (11mm)	2761.9	HES35ST

For marking systems, refer to page 346. For mounting rails, refer to page 347.

Earth terminals

Through-type earth terminals (yellow/green)
(suitable for 35mm DIN rail)



M 2.5



M 3

Type	2.5mm	4mm
Width / Strip Length / Screw	6mm / 10mm / M2.5	8mm / 12mm / M3
Cable	0.2mm-2.5mm stranded / 0.2mm -4mm solid	0.2mm-4mm stranded / 0.2mm-6mm solid

Description	Reference	2.5mm Item no.	Description	Reference	4mm Item no.
2.5mm Earth terminal	1056.2	SL2535	4mm Earth terminal	1212.2	SL435



M 4



M 5

Type	10mm	16mm
Width / Strip Length / Screw	10mm / 12mm / M4	12mm / 12mm / M5
Cable	0.2mm-10mm stranded / 0.2mm-10mm solid	2.5mm-16mm stranded / 2.5mm-25mm solid

Description	Reference	10mm Item no.	Description	Reference	16mm Item no.
10mm Earth terminal	1213.2	SL1035	16mm Earth terminal	1197.2	SL1635

Earth terminals

Through-type earth terminals (yellow/green)
(suitable for 35mm DIN rail)

Type	35mm
Width / Strip Length / Screw	16mm / 20mm / M6
Cable	2.5mm-35mm stranded / 2.5mm-50mm solid



M 6

Description	Reference	35mm Item no.
35mm Earth terminal	1199.2	SL3535

For mounting rails, refer to page 347.

Type	2.5mm, Duo Earth Double
Width / Strip Length	6mm / 10mm
Cable	0.2mm-2.5mm stranded / 0.2mm-0.4mm solid



M 3



M 3

Description	Reference	2.5mm Item no.	Description	Reference	2.5mm Item no.
2.5mm terminal	1060.2	SL2.535ZR	2.5mm terminal	1062.2	SL2.535ZR
			End section	2575.1	AP2.5RLPA

For marking systems, refer to page 346. For mounting rails, refer to page 347.

Double deck/duo terminals

Double deck through-type terminals
(suitable for 35mm DIN rail & 32mm G rail)

Type	4mm without Bridge	4mm with Bridge
Current	34 amps - 500V	34 amps
Width / Strip Length / Screw	6mm / 9mm / M3	6mm / 9mm / M3
Cable	0.2mm-4mm stranded / 0.2mm-4mm solid	0.2mm-4mm stranded / 0.2mm-4mm solid



M 3



M 3

Description	Reference	4mm Item no.	Description	Reference	4mm Item no.
4mm terminal beige	1020.2	RKD4PA	4mm terminal beige	1027.2	RKD4SVPA
End section beige	2101.2	AP4PA	End section beige	2101.2	AP4PA
End clamp Economy TS35	2005.2	ES35PA	End clamp Economy TS35	2005.2	ES35PA
End clamp TS35 (9.5mm)	2828.0	ES35SKT	End clamp TS35 (9.5mm)	2828.0	ES35SKT
End clamp metal TS35 (11mm)	2761.9	HES35ST	End clamp metal TS35 (11mm)	2761.9	HES35ST

For marking systems, refer to page 346. For mounting rails, refer to page 347.

Ancillary products

Wiring accessories

Double deck/duo terminals

Duo through-type connection terminals
(suitable for 35mm DIN rail & 32mm G rail)



M 3



M 3

Type	4mm 1in/2out Connection	4mm 2in/2out Connection
Current	26 amps - 500V	26 amps - 500V
Width / Strip Length	6mm / 12mm	6mm / 9mm
Cable	0.2mm-4mm stranded / 0.2mm -6mm solid	0.2mm-4mm stranded / 0.2mm -6mm solid

Description	Reference	4mm Item no.	Description	Reference	4mm Item no.
4mm terminal beige *	1210.2	RK2.5-4ZRPA	4mm terminal beige *	1211.2	RK2.5-4ZRLPA
End section beige *	2574.2	AP2.5RPA	End section beige *	2575.2	AP2.5RLPA
Cross Connection 2P insul.	2740.2	QI24	Cross Connection 2P insul.	2740.2	QI24
Cross Connection 3P insul.	2741.2	QI34	Cross Connection 3P insul.	2741.2	QI34
Cross Connection 10P insul.	2743.2	QI104	Cross Connection 10P insul.	2743.2	QI104
Cross Connection 83P bare	2153.0	Q.0.5m	Cross Connection 83P bare	2153.0	Q.0.5m
Cover s (60mm)	2499.0	ADQ	Cover s (60mm)	2499.0	ADQ
External jumper insulated 10P	2029.0	AQI10/5/15	External jumper insulated 10P	2143.0	AQI10/6/17
-	-	-	External jumper insulated 75P	2480.0	AQI75/6/17
Separator	2566.2	TRS3PA	Separator	2003.2	TRS
Test Socket	2075.0	STB8.5/2.3	Test Socket	2006.0	STB14/2.3
Test Plug	2007.0	PS2.3	Test Plug	2007.0	PS2.3
End clamp Economy TS35	2005.2	ES35PA	End clamp Economy TS35	2005.2	ES35PA
End clamp TS35 (9.5mm)	2828.0	ES35SKT	End clamp TS35 (9.5mm)	2828.0	ES35SKT
End clamp metal TS35 (11mm)	2761.9	HES35ST	End clamp metal TS35 (11mm)	2761.9	HES35ST

*Blue on Request.

Disconnect terminals

Disconnect terminals
(suitable for 35mm DIN rail & 32mm G rail)



M 3



M 3

Type	4mm without test socket	4mm with LH & RH test sockets
Current	10 amps	35 amps
Width / Strip Length	6mm / 8mm	6mm
Cable	0.2mm-4mm stranded / 0.2mm -6mm solid	0.5mm-4mm stranded / 0.5mm-6mm solid

Description	Reference	4mm Item no.	Description	Reference	4mm Item no.
4mm terminal beige	1390.2	TRK1.5PA	4mm terminal beige	1391.2	TRK1.5STBPA
External Jumper 2p	2064.0	AQ2			
External Jumper 3p	2065.0	AQ3			
External Jumper 4p	2066.0	AQ4			
Test Plug	2007.0	PS2.3			
End clamp Economy TS35	2005.2	ES35PA	End clamp Economy TS35	2005.2	ES35PA
End clamp TS35 (9.5mm)	2828.0	ES35SKT	End clamp TS35 (9.5mm)	2828.0	ES35SKT
End clamp metal TS35 (11mm)	2761.9	HES35ST	End clamp metal TS35 (11mm)	2761.9	HES35ST

For marking systems, refer to page 346. For mounting rails, refer to page 347.

Disconnect terminals

Disconnect terminals
(suitable for 35mm DIN rail & 32mm G rail)

Type	4mm without test sockets	4mm
Current	10 / 15 amps - 300 / 600V	34 / 15 amps - 300 / 600V
Width / Strip Length	6mm / 8mm	8mm / 9mm
Cable	0.2mm-4mm stranded / 0.2mm-4mm solid	0.2mm-4mm stranded / 0.2mm -4mm solid



Description	Reference	4mm Item no.	Description	Reference	4mm Item no.
4mm terminal beige	1394.2	TRK1.5DSPA	4mm terminal beige	2193.2	TRK2KPA
Plug (spare)	1403.2	DS1TRK1.5	End plate beige	2046.2	APSI1PA
Diode Plug 1A	1401.2	DS1TRK1.51A			
Diode Plug with Bridge	1400.2	DS1TRK1.5B			
External Jumper 2p	2064.0	AQ2	End clamp Economy TS35	2005.2	ES35PA
External Jumper 3p	2065.0	AQ3	End clamp TS35 (9.5mm)	2828.0	ES35SKT
External Jumper 4p	2066.0	AQ4	End clamp metal TS35 (11mm)	2761.9	HES35ST
Test Plug	2007.0	PS2.3			
End clamp Economy TS35	2005.2	ES35PA	End clamp Economy TS35	2005.2	ES35PA
End clamp TS35 (9.5mm)	2828.0	ES35SKT	End clamp TS35 (9.5mm)	2828.0	ES35SKT
End clamp metal TS35 (11mm)	2761.9	HES35ST	End clamp metal TS35 (11mm)	2761.9	HES35ST

For marking systems, refer to page 346. For mounting rails, refer to page 347.

Type	4mm with RH & LH test sockets
Current	10 / 15 amps - 300 / 600V
Width / Strip Length	6mm / 8mm
Cable	0.2mm-4mm stranded / 0.2mm-4mm solid



Description	Reference	4mm Item no.
4mm terminal beige	1395.2	TRK1.5STBDSPA

Ancillary products

Wiring accessories



M 4



M 4

Fuse terminals

Fuse terminals (suitable for 35mm DIN Rail & 32mm G Rail)

Type	10mm 5 x 20mm / 5 X 25mm	10mm 6.3mm x 32mm
Width / Strip Length	8mm / 9mm	6mm / 9mm
Cable	0.2mm-10mm stranded / 0.2mm-10mm solid	0.2mm-10mm stranded / 0.2mm-10mm solid

Description	Reference	10mm Item no.	Description	Reference	10mm Item no.
Terminal beige	1101.2	SIK10PA	Terminal beige	1102.2	SIK10ZPA
LED - 12VDC / 24VAC	1113.2	SSTSIKLED12			
LED - 30VDC / 60VAC	1114.2	SSTSIKLED30			
LED - 60VDC / 120VAC	1115.2	SSTSIKLED60			
LED - 115VDC / 230VAC	1116.2	SSTSIKLED115			
End clamp Economy TS35	2005.2	ES35PA			
End clamp TS35 (9.5mm)	2828.0	ES35SKT			
End clamp metal TS35 (11mm)	2761.9	HES35ST			
Fuses to suit:					
5 x 25mm:					
1A	2096.0	SIK251A			
2A	2097.0	SIK252A			
4A	2098.0	SIK254A			
6.3A	2099.0	SIK256.3A			
5 x 20mm:					
1A	2406.0	SIK201A			
2A	2407.0	SIK202A			
4A	2408.0	SIK204A			
6.3A	2409.0	SIK206.3A			



M 3



M 4

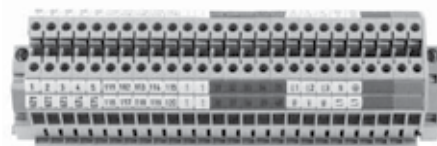
Fuse terminals (suitable for 35mm DIN Rail)

Type	4mm 5mm X 20mm/25mm	10mm 5mm X 20mm/25mm
Width / Strip Length	8mm / 9mm	12mm / 12mm
Cable	0.2mm-4mm stranded / 0.2mm-4mm solid	0.2mm-10mm stranded / 0.2mm-10mm solid

Description	Reference	4mm Item no.	Description	Reference	10mm Item no.
4mm terminal	2190.2	STK1PA	10mm terminal	1092.6	SK135
End section	2046.2	APS11PA	End section	2047.6	APSK1KRG
End clamp Economy TS35	2005.2	ES35PA	End clamp Economy TS35	2005.2	ES35PA
End clamp TS35 (9.5mm)	2828.0	ES35SKT	End clamp TS35 (9.5mm)	2828.0	ES35SKT
End clamp metal TS35 (11mm)	2761.9	HES35ST	End clamp metal TS35 (11mm)	2761.9	HES35ST

For marking systems, refer to page 346. For mounting rails, refer to page 347.
For fuses see above.

Marking tags



Terminal SB marking tag branches (each branch with 10 tags)

Nos.	Reference	5mm width, Item no. *	Reference	6mm width, Item no.	Reference	8mm width, Item no.
1 - 10	2433.0/1-10	SB510FS1-10	2037.0/1-10	SB610FS1-10	2942.0/1-10	SB810FS1-10
11 - 20	2433.0/11-20	SB510FS11-20	2037.0/11-20	SB610FS11-20	2942.0/11-20	SB810FS11-20
21 - 30	2433.0/21-30	SB510FS21-30	2037.0/21-30	SB610FS21-30	2942.0/21-30	SB810FS21-30
31 - 40	2433.0/31-40	SB510FS31-40	2037.0/31-40	SB610FS31-40	2942.0/31-40	SB810FS31-40
41 - 50	2433.0/41-50	SB510FS41-50	2037.0/41-50	SB610FS41-50	2942.0/41-50	SB810FS41-50
51 - 60	2433.0/51-60	SB510FS51-60	2037.0/51-60	SB610FS51-60	2942.0/51-60	SB810FS51-60
61 - 70	2433.0/61-70	SB510FS61-70	2037.0/61-70	SB610FS61-70	2942.0/61-70	SB810FS61-70
71 - 80	2433.0/71-80	SB510FS71-80	2037.0/71-80	SB610FS71-80	2942.0/71-80	SB810FS71-80
81 - 90	2433.0/81-90	SB510FS81-90	2037.0/81-90	SB610FS81-90	2942.0/81-90	SB810FS81-90
91 - 100	2433.0/91-100	SB510FS91-100	2037.0/91-100	SB610FS91-100	2942.0/91-100	SB810FS91-100
Blank	2430.0	SB510	2035.0	SB610	2940.0	SB810

* Tag quantity - price is for one strip of 10 tags.



AS310 Marking branches white polyamide with Black print (colours available on request).

Terminal AS marking tag branches (each strip with 10 tags)

Description	Reference	Item no. *	Description	Reference	Item no.
Letter A	2573.0-A	AS310G-A	Letter O	2573.0-O	AS310G-O
Letter B	2573.0-B	AS310G-B	Letter P	2573.0-P	AS310G-P
Letter C	2573.0-C	AS310G-C	Letter Q	2573.0-Q	AS310G-Q
Letter D	2573.0-D	AS310G-D	Letter R	2573.0-R	AS310G-R
Letter E	2573.0-E	AS310G-E	Letter S	2573.0-S	AS310G-S
Letter F	2573.0-F	AS310G-F	Letter T	2573.0-T	AS310G-T
Letter G	2573.0-G	AS310G-G	Letter U	2573.0-U	AS310G-U
Letter H	2573.0-H	AS310G-H	Letter V	2573.0-V	AS310G-V
Letter I	2573.0-I	AS310G-I	Letter W	2573.0-W	AS310G-W
Letter J	2573.0-J	AS310G-J	Letter X	2573.0-X	AS310G-X
Letter K	2573.0-K	AS310G-K	Letter Y	2573.0-Y	AS310G-Y
Letter L	2573.0-L	AS310G-L	Letter Z	2573.0-Z	AS310G-Z
Letter M	2573.0-M	AS310G-M	Letter +	2573.0-PLUS	AS310G-PLUS
Letter N	2573.0-N	AS310G-N	Letter -	2573.0-MINUS	AS310G-MINUS

Description	Reference	Item no. *	Description	Reference	Item no.
Nos. Sequence 0.....9	2572.0		Tag Mounting Clip		
No .1	2573.0-1	AS310G-1	3 way 9.5mm	2616.0	SCHT3
No .2	2573.0-2	AS310G-2	4 way 12.5mm	2617.0	SCHT4
No. 3	2573.0-3	AS310G-3	5 way 15.8mm	2618.0	SCHT5
No. 4	2573.0-4	AS310G-4	6 way 19mm	2619.0	SCHT6
No. 5	2573.0-5	AS310G-5			
No. 6	2573.0-6	AS310G-6			
No. 7	2573.0-7	AS310G-7			
No. 8	2573.0-8	AS310G-8			
No. 9	2573.0-9	AS310G-9			
No. 0	2573.0-0	AS310G-0			
Blank	2571.0	AS310			

* Tag quantity - price is for one strip of 10 tags.

Ancillary products

Wiring accessories



TS3575



ES35PA

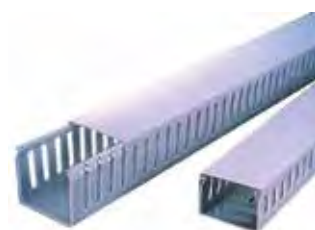


HES35ST

DIN rail & ducting

Terminal accessories

Description	Reference	Item no.
Mounting Rails (2 Metre length)		
35mm DIN 7.5mm high	2026.00	TS357.5US
35mm DIN 7.5mm high slotted	2094.00	TS357.5S
End Clamps		
End clamp Economy	2005.20	ES35PA
Type TS35 (35mm)	2828.0	ES35SKT
End clamp metal (11mm)	2761.9	HES35ST



Wiring duct, surface mounting

Wiring duct available in slotted closed & open or solid wall variations.

- High impact strength
- Self extinguishing 94V - 0 PVC
- Service temperature 850C
- Ducting comes with lids

Slotted - open (2m lengths)

Dimensions (W x H mm)	Colour	Item no.
25 x 30	Grey	FBO2530G
25 x 40	Grey	FBO2540G
25 x 60	Grey	FBO2560G
40 x 40	Grey	FBO4040G
40 x 60	Grey	FBO4060G
40 x 80	Grey	FBO4080G
60 x 40	Grey	FBO6040G
60 x 60	Grey	FBO6060G
60 x 80	Grey	FBO6080G
80 x 60	Grey	FBO8060G
80 x 80	Grey	FBO8080G
100 x 100	Grey	FBO100100G
25 x 30	Black	FBO2530B
25 x 60	Black	FBO2560B
40 x 40	Black	FBO4040B
40 x 60	Black	FBO4060B
40 x 80	Black	FBO4080B
60 x 60	Black	FBO6060B
60 x 80	Black	FBO6080B
80 x 80	Black	FBO8080B
100 x 100	Black	FBO100100B

Slotted - closed (2m lengths)

Dimensions (W x H mm)	Colour	Item no.
25 x 60	Grey	FBC2560G
40 x 40	Grey	FBC4040G
40 x 60	Grey	FBC4060G
40 x 80	Grey	FBC4080G
60 x 60	Grey	FBC6060G
60 x 80	Grey	FBC6080G
80 x 80	Grey	FBC8080G
100 x 100	Grey	FBC100100G
25 x 30	Black	FBC2530B
25 x 60	Black	FBC2560B
40 x 40	Black	FBC4040B
40 x 60	Black	FBC4060B
40 x 80	Black	FBC4080B
60 x 60	Black	FBC6060B
60 x 80	Black	FBC6080B
80 x 80	Black	FBC8080B
100 x 100	Black	FBC100100B

Spare duct lids

Dimensions (mm)	Colour	Item no.
25	Grey	FBL25G
40	Grey	FBL40G
60	Grey	FBL60G
80	Grey	FBL80G
100	Grey	FBL100G
25	Black	FBL25B
40	Black	FBL40B
60	Black	FBL60B
80	Black	FBL80B
100	Black	FBL100B



Cable accessories

Cable ties

- UL approved nylon 66, 94V-2
- One piece design ensures strong locking
- Service temperature -400C to +1050C
- High temperature 1850C, 94V-0 available on request
- Packed quantity 100

Dimensions (mm)	Colour	Tensile strength	Bundle Diameter	Item no.
100 x 2.5	Clear	8 kg	25 mm	FBCT1002C
190 x 4.8	Clear	22 kg	52 mm	FBCT1904C
280 x 4.8	Clear	22 kg	81 mm	FBCT2804C
370 x 4.8	Clear	22 kg	102 mm	FBCT3704C
280 x 7.6	Clear	55 kg	81 mm	FBCT2807C
380 x 7.6	Clear	55 kg	110 mm	FBCT3807C
450 x 7.6	Clear	55 kg	120 mm	FBCT4507C
450 x 8.0	Clear	80 kg	133 mm	FBCT4508C
550 x 8.0	Clear	80 kg	168 mm	FBCT5508C
812 x 9.0	Clear	80 kg	246 mm	FBCT8129C
1168 x 9.0	Clear	80 kg	360 mm	FBCT11689C
100 x 2.5	Black	8 kg	25 mm	FBCT1002B
150 x 3.6	Black	18 kg	39 mm	FBCT1503B
190 x 4.8	Black	22 kg	52 mm	FBCT1904B
280 x 4.8	Black	22 kg	81 mm	FBCT2804B
370 x 4.8	Black	22 kg	102 mm	FBCT3704B
280 x 7.6	Black	55 kg	81 mm	FBCT2807B
380 x 7.6	Black	55 kg	110 mm	FBCT3807B
450 x 7.6	Black	55 kg	120 mm	FBCT4507B
450 x 8.0	Black	80 kg	133 mm	FBCT4508B
550 x 8.0	Black	80 kg	168 mm	FBCT5508B
1168 x 9.0	Black	80 kg	360 mm	FBCT11689B

Flexible bushing

- Cut to suit any shape hole
- Protects cables from sharp edges
- Manufactured P.E. Natural

Thickness	Max. Thickness	Item no.
1.0	1.0	FBMB10
1.6	1.0 - 1.6	FBMB16
2.4	1.6 - 2.4	FBMB24
3.2	2.4 - 3.2	FBMB32
4.5	3.2 - 4.5	FBMB45

Spiral banding

- Manufactured from P.E.
- Binds cables & protects them from damage

Wrapping range (mm)	Band width	Dia. (inner)	Dia. (outer)	Item no.
4 - 50	7.0	4.0	6.0	FBSW06
6 - 60	10.8	6.0	8.0	FBSW08
7.5 - 60	11.4	7.5	10	FBSW10
9 - 65	13.9	9.0	12	FBSW12
12 - 75	15	12	15	FBSW15
15 - 100	18.2	15	19	FBSW19

Cable tie saddles

- Available in screw-in or stick-on
- Colour - white

Dimensions (mm)	Mounting	Item no.
19 x 9.5	Screw-on	FBTM0
15 x 10	Screw-on	FBTM1
23 x 16	Screw-on	FBTM2
21 x 21	Stick-on	FBTM21214
28 x 28	Stick-on + screw-on	FBTM28284



Cable Tie Saddles



Cable Ties, Surface Mounting

Cable glands

- Manufactured from UL approved nylon 66 94V-2 black
- Temperature -400C to +1050C
- "Cable grab claw" stays on gland body to reduce installation time
- IP68 rating

Thread size, metric, (mm)	Suits cable outside dia.	Item no.
16	5 - 10	FBAG16
20	6 - 13	FBAG20
25	10-18	FBAG25
32	16 - 22	FBAG32
40	20 - 27	FBAG40
50	30 - 41	FBAG50
63	40 - 53	FBAG63



Flexible bushing



Cable glands



Spiral banding

Ancillary products

Enclosures



Eaton halyster polyester/non metallic enclosures

Polyester enclosures, halyster - polyester enclosures

Durability & quality you can trust. Halyster has been proving its reliability in the harshest climates, from the sweltering heats to the coldest temperatures for over 30 years.

- IP66 - dust & jet water tight
- Built for outdoor & indoor usage
- Covers IK10 impact rating
- UV resistant- tested
- Corrosion free & chemical resistant GRP

Empty boxes with TRANSPARENT cover & insulated base-plate

Type	Description (W x H x D mm)	Item no.
K432	IP66 Enclosure 180 x 270 x 171mm	1860808
K433	IP66 Enclosure 270 x 270 x 171mm	1860809
K434	IP66 Enclosure 270 x 360 x 171mm	1860810
K442	IP66 Enclosure 180 x 360 x 171mm	1860090
K444	IP66 Enclosure 360 x 360 x 171mm	1860091
K463	IP66 Enclosure 270 x 540 x 171mm	1860811
K464	IP66 Enclosure 360 x 540 x 171mm	1860812
K466	IP66 Enclosure 540 x 540 x 171mm	1860092
K484	IP66 Enclosure 360 x 720 x 201mm	1860093
K486	IP66 Enclosure 540 x 720 x 201mm	1860094

Empty boxes with OPAQUE cover with insulated base-plate

Type	Description (W x H x D mm)	Item no.
K432GS	IP66 Enclosure 180 x 270 x 171mm	1860101
K433GS	IP66 Enclosure 270 x 270 x 171mm	1860102
K434GS	IP66 Enclosure 270 x 360 x 171mm	1860103
K442GS	IP66 Enclosure 180 x 360 x 171mm	1860095
K444GS	IP66 Enclosure 360 x 360 x 171mm	1860096
K463GS	IP66 Enclosure 270 x 540 x 171mm	1860104
K464GS	IP66 Enclosure 360 x 540 x 171mm	1860105
K466GS	IP66 Enclosure 540 x 540 x 171mm	1860097
K484GS	IP66 Enclosure 360 x 720 x 201mm	1860098
K486GS	IP66 Enclosure 540 x 720 x 201mm	1860099

Flanges for increasing depth

Type	Description	Item no.
KR434	Depth 62,5 mm	1860547
KR444	Depth 62,5 mm	1860414
KR463	Depth 62,5 mm	1860762
KR464	Depth 62,5 mm	1860761
KR466	Depth 125 mm	1860532

Boxes with DIN rails - TRANSPARENT cover

Type	Description	Item no.
K433/1h	Box with 1 top hat mounting rail	1860886
K434/2h	Box with 2 top hat mounting rails	1860548
K444/2h	Box with 2 top hat mounting rails	1860549
K464/2h	Box with 2 top hat mounting rails	1860559

Spare fixing screws for lids

Description	Item no.
Lid screws, standard, tool operated	1037917
Lid screws, hand operated	1037922
Lid screws, tool operated, captive cover	1037919
Lid screws, hand operated, captive cover	1037923

Spare covers, TRANSPARENT

Type	Description (W x H mm)	Item no.
KD432	Cover only 180 x 270	1860755
KD433	Cover only 270 x 270	1860751
KD434	Cover only 270 x 360	1860752
KD442	Cover only 180 x 360	1860059
KD444	Cover only 360 x 360	1860060
KD463	Cover only 270 x 540	1860753
KD464	Cover only 360 x 540	1860754
KD466	Cover only 540 x 540	1860061
KD484	Cover only 360 x 720	1860062
KD486	Cover only 540 x 720	1860063

Spare Covers, OPAQUE

Type	Description (W x H mm)	Item no.
KD432GS	Cover only 180 x 270	1360006
KD433GS	Cover only 270 x 270	1360007
KD434GS	Cover only 270 x 360	1360008
KD442GS	Cover only 180 x 360	1360084
KD444GS	Cover only 360 x 360	1360085
KD463GS	Cover only 270 x 540	1360009
KD464GS	Cover only 360 x 540	1360010
KD466GS	Cover only 540 x 540	1360086
KD484GS	Cover only 360 x 720	1360087
KD486GS	Cover only 540 x 720	1360088

Spare base plates

Type	Description	Item no.
K432	Phenolic base plate suit K432	1028926
K433	Phenolic base plate suit K433	1028915
K434	Phenolic base plate suit K434	1028916
K442	Phenolic base plate suit K442	1026377
K444	Phenolic base plate suit K444	1026375
K463	Phenolic base plate suit K463	1028917
K464	Phenolic base plate suit K464	1028922
K466	Phenolic base plate suit K466	1029600
K484	Phenolic base plate suit K484	1026376
K486	Phenolic base plate suit K486	1026378

Locking accessories & valves

Type	Description	Item no.
All	External Hinge Kit (pair)	1064108
All	Seal Plate for Padlocking Cover	6009946
All	Vent Valve	1049019
All	Drain Valve	1024949

Small insulated enclosures CI-K range

Suitable for housing a wide range of protection and control devices, the robust CI-K enclosures are rated to IP65 degree of protection. Metric cable entry knockouts in the top, bottom and rear of the enclosure make installation easy.

A choice of the unique push-through membrane or hard knockout versions provide added flexibility.

The units are ideal for housing Moeller products including: T rotary switches, P switch-disconnectors, RMQ-Titan command and signalling devices, xStart contactors, Xpole miniature circuit-breakers, easy control relays, ETR4 timing relays, and PKZ motor-protective circuit-breakers. They also make excellent terminal boxes and can be used to house pneumatic or hydraulic components.



Features and benefits

- Fully insulated with no need to earth, resistant to flaking or rusting which is particularly important for the food industry
- Choice of mounting rails and plates, with fixing holes for vertical or horizontal positioning, simplifies mounting
- Captive screws, fixing centres printed on the base, rubber feet to compensate for wall unevenness and optional external fixing brackets all simplify installation
- Shallow base depth eases connection to devices mounted in the enclosure
- Eyelets on the base and cover mean tie wraps can be used as a simple hinge when accessing the contents of the enclosure

CI-K enclosures

Dimensions (W x H x D mm)	Mounting Depth mm	Item no.
Degree of protection IP65, material: polycarbonate, with metal mounting plate, enclosure base RAL 9005, black, top RAL 7035, light grey, metric cable entry knockouts at top, bottom and in back plate, cable membrane with CI-K1 and CI-K2, control cable entry to CI-K2, enclosure CI-K3 to CI-K5 include metric cable grommets		
100 x 160 x 100	73	CI-K2-100-M
100 x 160 x 145	118	CI-K2-145-M
120 x 200 x 125	98	CI-K3-125-M
120 x 200 x 160	133	CI-K3-160-M
160 x 240 x 125	93	CI-K4-125-M
160 x 240 x 160	128	CI-K4-160-M
200 x 280 x 125	93	CI-K5-125-M
200 x 280 x 160	128	CI-K5-160-M



CI-K2-100-M



TS-CI-K2



K-CI-K3

CI-K accessories

Description	For use with	Item no.
Mounting rails	CI-K2 crosswise, useful length 82 mm	TS-CI-K2
	CI-K3 lengthwise and crosswise, useful length 98 mm	TS-CI-K3
	CI-K4 crosswise, useful length 133 mm	TS-CI-K4
	CI-K5 lengthwise and crosswise, and for CI-K4 lengthwise, useful length 173 mm	TS-CI-K5
N terminals, PE terminals	CI-K3	K-CI-K3
	CI-K4	K-CI-K4
Insulated individual terminals	32 A, flexible 1.5 – 6 mm ²	K10/1
	63 A, flexible 6 – 16 mm ²	K25/1
	100 A, flexible 10 – 35 mm ²	K50/1
Metric cable glands	20.5 mm drilled hole diameter	V-M20
	25.5 mm drilled hole diameter	V-M25
	32.5 mm drilled hole diameter	V-M32
	50.5 mm drilled hole diameter	V-M50



K10/1



V-M20

Totally insulated enclosures CI range

CI Series enclosures

Dimensions (W x H x D mm)	Mounting depth mm	Item no.
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E type individual enclosures

Metric cable entry knockouts on all sides, degree of protection IP65, full-area knockouts possible on all sides, transparent cover (included in depth), fixing straps for wall mounting, cover fasteners can be sealed

187.5 x 250 x 150	125	CI23E-125
187.5 x 250 x 175	150	CI23E-150
375 x 250 x 150	125	CI43E-125
375 x 250 x 175	150	CI43E-150
375 x 250 x 225	200	CI43E-200
375 x 375 x 150	125	CI44E-125
375 x 375 x 175	150	CI44E-150
375 x 375 x 225	200	CI44E-200
375 x 375 x 275	250	CI44E-250
375 x 500 x 225	200	CI45E-200

X type individual enclosures

Smooth plain sides for easy cleaning, Degree of protection IP65, Transparent cover (included in depth), Fixing straps for wall mounting, Cover fasteners can be sealed

187.5 x 250 x 150	125	CI23X-125
187.5 x 250 x 175	150	CI23X-150
375 x 250 x 150	125	CI43X-125
375 x 250 x 175	150	CI43X-150
375 x 250 x 225	200	CI43X-200
375 x 375 x 150	125	CI44X-125
375 x 375 x 175	150	CI44X-150
375 x 375 x 225	200	CI44X-200
375 x 375 x 275	250	CI44X-250
375 x 500 x 225	200	CI45X-200

Panel enclosures

Sides with full-area knockouts, open top and bottom, Degree of protection IP65, Transparent cover (included in depth), cover fasteners can be sealed

375 x 750 x 225	200	CI48-200
375 x 750 x 275	250	CI48-250

CI Series bases

Description	Dimensions (W x H mm)	Item no.
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Bases for E type individual enclosures

Metric cable entry knockouts on all sides, full-area knockouts possible on all sides, support bosses in the base to fit mounting plates or mounting rails

187.5 x 250	U-CI23E
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375 x 250	U-CI43E
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375 x 375	U-CI44E
-----------	----------------

375 x 500	U-CI45E
-----------	----------------

187.5 x 250	U-CI23X
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375 x 250	U-CI43X
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375 x 375	U-CI44X
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375 x 500	U-CI45X
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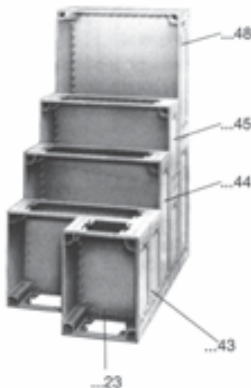
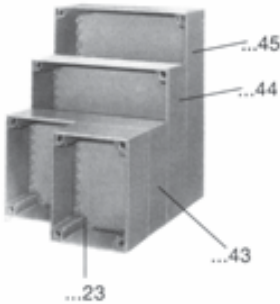
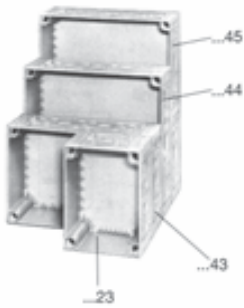
187.5 x 250	U-CI23
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375 x 250	U-CI43
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375 x 375	U-CI44
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375 x 500	U-CI45
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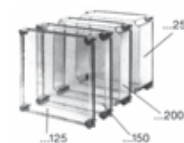
375 x 750	U-CI48
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Totally insulated enclosures CI range

CI covers - Transparent covers only

Mounting depth mm	For use with enclosure base	Item no.
125	U-CI23	D125-CI23
150		D150-CI23
125	U-CI43	D125-CI43
150		D150-CI43
200		D200-CI43
125	U-CI44	D125-CI44
150		D150-CI44
200		D200-CI44
250		D250-CI44
200	U-CI45	D200-CI45
200	U-CI48	D200-CI48
250		D250-CI48



CI accessories

Description	For use with	Item no.
Steel mounting plates 3 mm galvanised steel, including fixing screws	CI 23	M3-CI23
	CI 43	M3-CI43
	CI 44	M3-CI44
	CI 45	M3-CI45
	CI 48	M3-CI48
Module mounting rails Useful length 330 mm for enclosure dimension 375 mm, 3 mm galvanised steel, including fixing screws, pack of 10 rails	Horizontal CI43, CI44, CI45, CI48, Vertical CI44	ML4
Mounting rails Galvanised steel, including fixing screws, 7.5 mm high, Pack of 20 rails	Useful length 145 mm for enclosure dimension 187.5 mm	145 CL2
	Useful length 207 mm for enclosure dimension 250 mm	207 CL3
	Useful length 332 mm for enclosure dimension 375 mm	332 CL4
Mounting rails 15 mm high, pack of 10 rails	Useful length 145 mm for enclosure dimension 187.5 mm	145 CL2-15
	Useful length 207 mm for enclosure dimension 250 mm	207 CL3-15
	Useful length 332 mm for enclosure dimension 375 mm	332 CL4-15
Spacers	To raise by 25 mm, pack of 25 by 25	HS25-CI
	To raise by 50 mm, pack of 25 by 50	HS50-CI



Description	Rated current	For use with	Item no.
Insulated individual terminals Connections on both sides for round conductors	32 A	-	K10/1
	63 A	-	K25/1
	100 A	-	K50/1
	160 A	-	K95/1N/BR
	250 A	-	K150/1/BR
	400 A	-	K240/1/BR

Ancillary products

Enclosures



BL-CI



HG-CI



KD4-CI



K-CI



BS-2-CI



FT-CI



VS-CI



FL4-X



KS3-CI



DSCH-CI

Totally insulated enclosures CI range

CI accessories

Description	Enclosure width mm	Standard pack	Item no.
Fixing strap with screw			
For wall mounting of CI enclosures. Each kit contains four straps.	–	5	BL-CI
Thumb-grip			
For fitting to cover fasteners on CI enclosures. Set of four	–	20	HG-CI
Clip			
For enclosure assembly	–	25	KD4-CI
Wedge lock			
For enclosure assembly and flange fitting	–	100	K-CI
Assembly kits			
	187.5	10	BS-2-CI
To connect enclosures to one another, wedge-lock fasteners included	250 (500: use 2 off)	10	BS-3-CI
	375 (750: use 2 off)	10	BS-4-CI
Flange adapter			
For connecting enclosures with sides of different lengths	–	10	FT-CI
Gaskets			
	187.5	20	D2-CI
To seal faces between enclosures	250	20	D3-CI
	375	20	D4-CI
Connecting pieces			
	–	100	VS-CI
Wedge lock K-CI required for enclosure assembly and flange fitting for attaching gland plates	–	25	VS-KS-CI
	–	25	VS-TR-CI
Flange plates			
	375	10	FL4-X
Captive, sponge-rubber gasket. Cable entry drill as required	250	10	FL3-X
	187.5	10	FL2-X
	125	10	FL1-X
Gland plates (including cable grommets)			
For two cables 14 – 54 mm	250	1	KS3-CI
For three cables 14 – 68 mm	375	1	KS4-CI
Cover hinge			
For CI...E and CI...X individual enclosures. One set consists of 2 hinges.	–	5	DSCH-CI

ETA Mild steel enclosures

ETA ST wall mount enclosures

ETA metal enclosures are the ideal housing for all electrical control circuits & switchboard construction, ST enclosures feature:

- Enclosure & door RAL 7035 textured polyester powder coat
- Enclosure & door made from 1.5mm sheet steel
- Mounting plate made of 2.5mm galvanised sheet steel
- Removable gland plate
- Two part polyurethane continuous sealing gasket
- Reversible door including mounting rails
- Degree of protection IP66 to EN60529, EN50298
- Impact Resistance - IK10 to EN50298, EN 50102



ETA ST wall mount enclosures IP66 (Single door)

External dimensions (W x H x D mm)	Colour	No. of locks	Weight Kgs	Item no.
200 x 300 x 150	RAL7035	1	6	ST2-315
300 x 300 x 150	RAL7035	1	7.5	ST3-315
300 x 400 x 150	RAL7035	1	9.5	ST3-415
300 x 500 x 150	RAL7035	1	11.5	ST3-515
400 x 300 x 150	RAL7035	1	9.5	ST4-315
400 x 500 x 150	RAL7035	1	13	ST4-515
300 x 300 x 200	RAL7035	1	8	ST3-320
300 x 400 x 200	RAL7035	1	11	ST3-420
300 x 500 x 200	RAL7035	1	13	ST3-520
400 x 300 x 200	RAL7035	1	11	ST4-320
400 x 400 x 200	RAL7035	1	13.5	ST4-420
400 x 500 x 200	RAL7035	1	15.5	ST4-520
400 x 600 x 200	RAL7035	2	18	ST4-620
500 x 500 x 200	RAL7035	1	18.5	ST5-520
500 x 700 x 200	RAL7035	2	24.5	ST5-720
600 x 400 x 200	RAL7035	1	18	ST6-420
600 x 600 x 200	RAL7035	2	24.5	ST6-620
400 x 500 x 250	RAL7035	1	18	ST4-525
400 x 600 x 250	RAL7035	2	20.5	ST4-625
500 x 700 x 250	RAL7035	2	27	ST5-725
600 x 800 x 250	RAL7035	2	34	ST6-825
600 x 1000 x 250	RAL7035	2	43.5	ST6-1025
600 x 400 x 300	RAL7035	1	23	ST6-430
600 x 600 x 300	RAL7035	2	30	ST6-630
600 x 800 x 300	RAL7035	2	37	ST6-830
600 x 1000 x 300	RAL7035	2	47	ST6-1030
600 x 1200 x 300	RAL7035	1	54	ST6-1230
800 x 600 x 300	RAL7035	2	37	ST8-630
800 x 800 x 300	RAL7035	2	48	ST8-830
800 x 1000 x 300	RAL7035	2	58	ST8-1030
800 x 1200 x 300	RAL7035	1	67	ST8-1230
400 x 600 x 400	RAL7035	2	25	ST4-640
600 x 600 x 400	RAL7035	2	32	ST6-640
600 x 800 x 400	RAL7035	2	46	ST6-840
600 x 1000 x 400	RAL7035	2	56	ST6-1040
800 x 800 x 400	RAL7035	2	52	ST8-840
800 x 1000 x 400	RAL7035	2	62	ST8-1040

Please call Eaton for sizes not listed.

ETA ST wall boxes IP55 (2 Door)

External dimensions (W x H x D mm)	Colour	No. of locks	Weight Kgs	Item no.
800 x 600 x 300	RAL7035	1	37	ST8-630
1000 x 800 x 200	RAL7035	1	51	ST10-820
1000 x 800 x 300	RAL7035	1	58	ST10-830
1000 x 1000 x 300	RAL7035	1	69	ST10-1030
1000 x 1200 x 300	RAL7035	1	80	ST10-1230

Orange RAL2000 ETA ST wall mount enclosures IP66 (Single door)

External dimensions (W x H x D mm)	Colour	No. of locks	Weight Kgs	Item no.
400 x 400 x 200	RAL2000	1	13.5	STO4-420
400 x 600 x 200	RAL2000	2	18	STO4-620
600 x 600 x 200	RAL2000	2	24.5	STO6-620
500 x 700 x 250	RAL2000	2	27	STO5-725
600 x 800 x 250	RAL2000	2	34	STO6-825
600 x 1000 x 250	RAL2000	2	43.5	STO6-1025
600 x 1200 x 300	RAL2000	1	54	STO6-1230
800 x 1000 x 300	RAL2000	2	58	STO8-1030
800 x 1200 x 300	RAL2000	1	67	STO8-1230

Ancillary products

Enclosures



ETA Mild steel enclosures

ETA STP wall mount enclosures IP66 with plexiglass window

ETA metal enclosures are the ideal housing for all electrical control circuits & switch board construction, STP enclosures feature:

- Full Plexiglass viewing window
- Enclosure & door RAL 7035 textured polyester powder coat
- Enclosure & door made from 1.5mm sheet steel
- Mounting plate made of 2.5mm galvanised sheet steel
- Removable gland plate & gasket
- Two part polyurethane continuous sealing gasket
- Reversible door including mounting rails
- Degree of protection to IEC 529 IP66

ETA STP wall mount enclosures IP66 with plexiglass window

External dimensions (W x H x D mm)	Colour	No. of locks	Weight Kgs	Item no.
400 x 300 x 200	RAL7035	1	11	STP4-320
400 x 400 x 200	RAL7035	1	13.5	STP4-420
400 x 500 x 200	RAL7035	1	15.5	STP4-520
400 x 600 x 200	RAL7035	2	18	STP4-620
500 x 700 x 200	RAL7035	2	24.5	STP5-720
600 x 400 x 200	RAL7035	1	18	STP6-420
600 x 600 x 200	RAL7035	2	24.5	STP6-620
400 x 500 x 250	RAL7035	1	18	STP4-525
400 x 600 x 250	RAL7035	2	20.5	STP4-625
500 x 700 x 250	RAL7035	2	27	STP5-725
600 x 800 x 250	RAL7035	2	34	STP6-825
600 x 1000 x 250	RAL7035	2	43.5	STP6-1025
600 x 400 x 300	RAL7035	1	23	STP6-430
600 x 600 x 300	RAL7035	2	30	STP6-630
600 x 800 x 300	RAL7035	2	37	STP6-830
600 x 1000 x 300	RAL7035	2	47	STP6-1030
600 x 1200 x 300	RAL7035	1	54	STP6-1230
800 x 1000 x 300	RAL7035	2	58	STP8-1030
800 x 1200 x 300	RAL7035	1	67	STP8-1230

ETA ST enclosures accessories

ETA ST inner door kits

Description (W x H mm)	Colour	Item no.
Inner Door Kit, 400 x 400	RAL7035	STP01-44
Inner Door Kit, 400 x 500	RAL7035	STP01-45
Inner Door Kit, 400 x 600	RAL7035	STP01-46
Inner Door Kit, 500 x 700	RAL7035	STP01-57
Inner Door Kit, 600 x 400	RAL7035	STP01-64
Inner Door Kit, 600 x 600	RAL7035	STP01-66
Inner Door Kit, 600 x 800	RAL7035	STP01-68
Inner Door Kit, 600 x 1000	RAL7035	STP01-610
Inner Door Kit, 600 x 1200	RAL7035	STP01-612
Inner Door Kit, 800 x 1000	RAL7035	STP01-810
Inner Door Kit, 800 x 1200	RAL7035	STP01-812

ETA ST enclosures accessories

ETA ST Modular Chassis Kits Includes:

- Frame
- Zinc plated DIN Rail
- Internal IP rating: IP1X
- Front panel with modular slot complete with mounting accessories & captive screws

ETA ST modular chassis kits

Description	Colour	Item no.
Modular Chassis Kit, 1 x 16 Module	RAL7035	MDST4-300
Modular Chassis Kit, 2 x 16 Module	RAL7035	MDST4-400
Modular Chassis Kit, 3 x 16 Module	RAL7035	MDST4-500
Modular Chassis Kit, 3 x 16 Module*	RAL7035	MDST4-600
Modular Chassis Kit, 3 x 26 Module*	RAL7035	MDST6-600
Modular Chassis Kit, 4 x 26 Module*	RAL7035	MDST6-800
Modular Chassis Kit, 5 x 26 Module*	RAL7035	MDST6-1000
Modular Chassis Kit, 6 x 26 Module*	RAL7035	MDST6-1200

* These units have individual module frames, example MDST4-600 has 3 x 16 module lift off panels.

ETA ST canopies

B22

Description (W x D mm)	Colour	Item no.
Mild Steel, Canopy 400 x 200	RAL7035	TT1-04
Mild Steel, Canopy 500 x 200	RAL7035	TT1-05
Mild Steel, Canopy 600 x 250	RAL7035	TT1-06
Mild Steel, Canopy 400 x 250	RAL7035	TT2-04
Mild Steel, Canopy 500 x 250	RAL7035	TT2-05
Mild Steel, Canopy 600 x 300	RAL7035	TT2-06
Mild Steel, Canopy 800 x 300	RAL7035	TT2-08

Inner door kits, Modular chassis kits & canopies are also suitable for relevant sized STP type ETA enclosures.

ETA ST horizontal door rails

B22

Description	Colour	Item no.
Crosspiece for 300mm wide door	GAL	WC001
Crosspiece for 400mm wide door	GAL	WC002
Crosspiece for 500mm wide door	GAL	WC003
Crosspiece for 600mm wide door	GAL	WC004
Crosspiece for 800mm wide door	GAL	WC005

ETA enclosures include vertical door rails as standard.

ETA ST mounting plate adjustment kit

Description	Colour	Item no.
Plate adjustment for 200mm deep	GAL	WA980
Plate adjustment for 200mm deep	GAL	WA981
Plate adjustment for 200mm deep	GAL	WA982

Supply includes 2 pieces. 4 pieces required for enclosure 800mm high or less, 6 pieces required for enclosures greater than 800mm high.

ETA Mild steel enclosures

ETA ST enclosures accessories

ETA ST general accessories

Description	Item no.
Wall Mounting Bracket kit, 4 pieces	SDWC-010
ST Door Stop, holds door at 90 degrees to prevent accidental closing	WA060*
ST Metal Box Hinge	OCDST140051
ST Metal Hinge Pin	METALPIN
Document Door Pocket A4 Sized, Thermoplastic	WA050
RAL7035, touch up paint	XAFS7035

*To hold the door open at 90 degrees & avoid accidental closing. Used on ST or STP boxes.

ETA ST gland plates

Description	Colour	Item no.
Gland Plate 78 x 158mm, suit 200mm wide	RAL7035	WC016
Gland Plate 78 x 258mm, suit 300mm wide	RAL7035	WC018
Gland Plate 128 x 358mm, suit 500mm wide	RAL7035	WC020
Gland Plate 128 x 558mm, suit 600mm wide	RAL7035	WC022

Includes one gland plate, sealing gasket, mounting accessories.

ETA ST locking systems

ID	Description	Item no.
1	Standard ETA Lock, Key Only	WE096
2+3	Lock & cam, with standard ETA Locking Insert	WE250EAT Ⓞ
4	7mm Square Locking Insert	WE265
5	7mm Square Lock, Key Only	WE268
6	8mm Triangle Locking Insert	WE275
7	8mm Triangle Lock, Key Only	WE278
8	Screwdriver Locking Insert	WE280
9	Keylock insert with E333 key (includes cam & locking cover)	WE235
10	T Handle with Key Lock	WE285
11	Wing Handle with Key Lock	WE288
N/A	T Handle with Key Lock - For Double Door Enclosures plus 1200mm high ST, STO & STP enclosures	WE230
N/A	CL001 Lock, Complete with 2 Keys	STCL001
N/A	CL003 Lock, Complete with 2 Keys	STCL003
N/A	Lock Tongue to Suit CL Locks	STCL00-LOCKTONGUE Ⓞ
N/A	CL Nylon sealing Gasket	STCL00-GASKET Ⓞ

Ⓞ These items are supplied as one combined item.

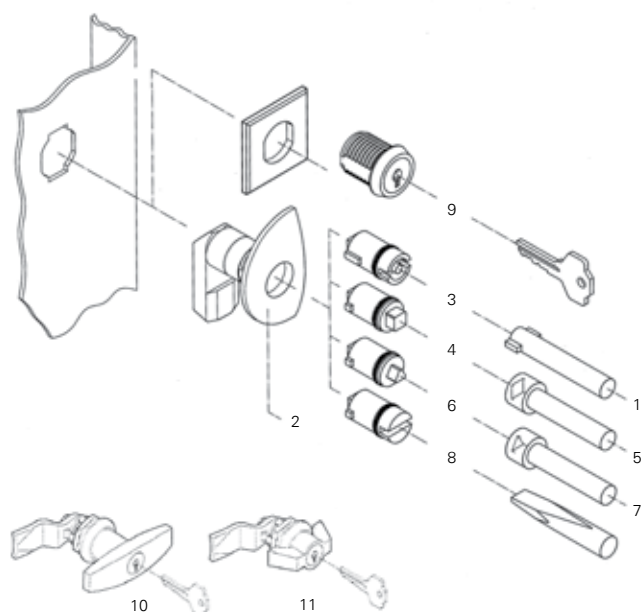
Ⓞ One of each of these items is required when ordering items STCL001 + STCL003.

ETA ST mounting plates

Description (W x H mm)	Colour	Item no.
suit 200W x 300H	GAL	WPAST23Z
suit 300W x 300H	GAL	WPAST33Z
suit 400W x 400H	GAL	WPAST44Z
suit 400W x 500H	GAL	WPAST45Z
suit 400W x 600H	GAL	WPAST46Z
suit 500W x 500H	GAL	WPAST55Z
suit 600W x 800H	GAL	WPAST68Z
suit 600W x 1000H	GAL	WPAST610Z
suit 800W x 800H	GAL	WPAST88Z
suit 1000W x 1000H	GAL	WPAST1010Z



CL001 & CL003 Lock Kit



Ancillary products

Enclosures



Terminal boxes accessories

Mounting plates

Description (W x H mm)	Colour	Item no.
Mounting Plate, suit 150W x 150H	GAL	SDPA11
Mounting Plate, suit 200W x 150H	GAL	SDPA21
Mounting Plate, suit 200W x 200H	GAL	SDPA22
Mounting Plate, suit 300W x 150H	GAL	SDPA31
Mounting Plate, suit 300W x 200H	GAL	SDPA32
Mounting Plate, suit 300W x 300H	GAL	SDPA33
Mounting Plate, suit 400W x 200H	GAL	SDPA42
Mounting Plate, suit 400W x 300H	GAL	SDPA43
Mounting Plate, suit 400W x 400H	GAL	SDPA44
Mounting Plate, suit 500W x 200H	GAL	SDPA52
Mounting Plate, suit 500W x 300H	GAL	SDPA53
Mounting Plate, suit 600W x 200H	GAL	SDPA62
Mounting Plate, suit 600W x 300H	GAL	SDPA63
Mounting Plate, suit 600W x 400H	GAL	SDPA64
Mounting Plate, suit 800W x 200H	GAL	SDPA82
Mounting Plate, suit 800W x 400H	GAL	SDPA84

DIN Rails

Description	Colour	Item no.
DIN Rail, suit 150mm Wide, Pack of 10	GAL	SDWA013
DIN Rail, suit 200mm Wide, Pack of 10	GAL	SDWA015
DIN Rail, suit 300mm Wide, Pack of 10	GAL	SDWA020
DIN Rail, suit 400mm Wide, Pack of 10	GAL	SDWA025
DIN Rail, suit 500mm Wide, Pack of 10	GAL	SDWA030
DIN Rail, suit 600mm Wide, Pack of 10	GAL	SDWA035
DIN Rail, suit 800mm Wide, Pack of 10	GAL	SDWA040

SDV & SDP

Description	Colour	Item no.
Wall Mounting Bracket kit, 4 pieces	GAL	SDWC-010
Hinge kit for SDV type, 6 pieces	GAL	SDWA-005

ETA Mild steel terminal boxes

Sheet steel terminal boxes

Ideal for termination of marshalling cables. ETA SDV Terminal Boxes features

- Enclosure & door made from 1.2mm sheet steel in RAL 7035
- Lid fixed with captive screws, hinges can be fitted as an option
- Holes for fixing mounting plates/DIN rail included
- Two part polyurethane continuous sealing gasket
- IP66 rating

Ideal for termination of marshalling cables. ETA SDP Terminal boxes features:

- Enclosure & door made from 1.2mm sheet steel in RAL7035
- Hinged door with standard 3 lock included
- Holes to fix mounting plates or din rail included
- Two part polyurethane continuous sealing gasket
- IP55 Rating

ETA SDV terminal boxes IP66 (Lift off door)

External Dimensions (W x H x D mm)	Colour	Weight Kgs	Item no.
150 x 150 x 80	RAL7035	1.1	SDV1-108
200 x 200 x 80	RAL7035	1.7	SDV2-208
300 x 200 x 80	RAL7035	2.2	SDV3-208
400 x 200 x 80	RAL7035	2.8	SDV4-208
500 x 200 x 80	RAL7035	3.3	SDV5-208
600 x 200 x 80	RAL7035	3.9	SDV6-208
800 x 200 x 80	RAL7035	5	SDV8-208
150 x 150 x 120	RAL7035	1.6	SDV1-112
200 x 200 x 120	RAL7035	2.3	SDV2-212
300 x 150 x 120	RAL7035	2	SDV3-112
300 x 200 x 120	RAL7035	2.6	SDV3-212
300 x 300 x 120	RAL7035	3.5	SDV3-312
400 x 200 x 120	RAL7035	3.3	SDV4-212
400 x 300 x 120	RAL7035	4.3	SDV4-312
400 x 400 x 120	RAL7035	5.4	SDV4-412
500 x 200 x 120	RAL7035	3.8	SDV5-212
500 x 300 x 120	RAL7035	5.1	SDV5-312
600 x 200 x 120	RAL7035	4.5	SDV6-212
600 x 300 x 120	RAL7035	5.9	SDV6-312
600 x 400 x 120	RAL7035	7.4	SDV6-412
800 x 200 x 120	RAL7035	5.8	SDV8-212
800 x 400 x 120	RAL7035	9.7	SDV8-412

Terminal Boxes with gland plates (120mm depth boxes only) & boxes with transparent lids can be offered. Contact Eaton for details.

ETA SDP terminal boxes IP55 (Hinged door)

External Dimensions (W x H x D mm)	Colour	Weight Kgs	Item no.
200 x 200 x 80	RAL7035	1.8	SDP2-208
200 x 300 x 80	RAL7035	2.4	SDP2-308
200 x 400 x 80	RAL7035	3	SDP2-408
200 x 200 x 120	RAL7035	2.5	SDP2-212
200 x 300 x 120	RAL7035	2.8	SDP2-312
200 x 400 x 120	RAL7035	3.5	SDP2-412
200 x 500 x 120	RAL7035	4.1	SDP2-512
300 x 300 x 120	RAL7035	3.8	SDP3-312
300 x 400 x 120	RAL7035	4.5	SDP3-412

ETA CS Enclosures

- Enclosure & door RAL 7035 textured polyester powder coat
- Enclosure & door made from 1.5mm sheet steel
- Mounting plate, 2.5mm galvanised steel
- Degree of protection IP55 to EN62208
- CS enclosures can be wall mounted using SDWC - 010 mounting brackets as per ST Enclosure range
- CS Enclosures can also be floor mounted with plinths available in 100mm or 200mm heights
- Door mounting rails fitted as standard
- 3 point locking system
- Studs welded on the internal sides enable the fixing of both the vertical & horizontal profiles (WTPR-CS & fast fixing brackets WTPR-R)



ETA CS Enclosures

External Dimensions (W x H x D mm)	Colour	Door Type	Item no.
600 x 1200 x 400	RAL7035	Single	CS6-1240
600 x 1400 x 300	RAL7035	Single	CS6-1430
600 x 1400 x 400	RAL7035	Single	CS6-1440
800 x 1200 x 400	RAL7035	Single	CS8-1240
800 x 1400 x 300	RAL7035	Single	CS8-1430
800 x 1400 x 400	RAL7035	Single	CS8-1440
1000 x 1200 x 400	RAL7035	Double	CS10-1240
1000 x 1400 x 300	RAL7035	Double	CS10-1430
1000 x 1400 x 400	RAL7035	Double	CS10-1440
1200 x 1200 x 400	RAL7035	Double	CS12-1240
1200 x 1400 x 300	RAL7035	Double	CS12-1430
1200 x 1400 x 400	RAL7035	Double	CS12-1440

ETA CS Enclosure range - modular plinth

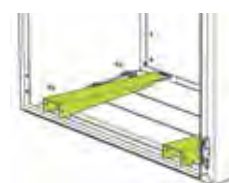
Description	Pack Size	Item no.
Universal Cover Pieces - 100mm (H), with mounting hardware	4 pieces	ATZE-A100
Front / Rear crosspiece pack - 600mm (W) enclosures	2 pieces	ATZE-T0600
Front / Rear crosspiece pack - 800mm (W) enclosures	2 pieces	ATZE-T0800
Front / Rear crosspiece pack - 1000mm (W) enclosures	2 pieces	ATZE-T1000
Front / Rear crosspiece pack - 1200mm (W) enclosures	2 pieces	ATZE-T1200
Side crosspiece pack - 300mm (D) Enclosures	2 pieces	ATZE-T0300S
Side crosspiece pack - 400mm (D) Enclosures	2 pieces	ATZE-T0400A



Modular plinth: available in 100mm and 200mm heights in RAL7025 textured finish.

ETA CS Enclosure range - accessories

Description	Pack Size	Item no.
Vertical rails to suit 1200mm (H) CS enclosures	4 pieces	WTPR-050120CS
Vertical rails to suit 1400mm (H) CS enclosures	4 pieces	WTPR-050140CS
Fast fixing horizontal rails to suit 300mm (D) CS enclosures	4 pieces	WTPR-050022R
Fast fixing horizontal rails to suit 400mm (D) CS enclosures	4 pieces	WTPR-050032R
180 Degree door opening hinge set	3 pieces	WTCE-18008
Eyebolts - M12 Zinc alloy, with hardware	2 pieces	WTGS-003
Wall mounting brackets	4 pieces	SDWC-010
Reusable mounting plate sliding rails - 300mm (D) enclosures	2 pieces	CSPP-00300
Reusable mounting plate sliding rails - 400mm (D) enclosures	2 pieces	CSPP-00400



Sliding rails: allow easy installation of the mounting plate, rails can be removed after installation and kept for future use



ETA Thermal management products

ETA - Grids, fans & filters

The Grids are manufactured from thermoplastic material.

- Heat resistance (-35°C +80°C)
- IEC/DIN 53480 KA 3 sliding currents resistance
- Colour similar to RAL7035 textured finish/RAL7025
- Sealing gasket to guarantee IP 54
- The filtering panel is manufactured from mixed polyester-modacrylic fibres
- High filtering capacity
- Max working temperature 130°C
- Easily removed
- Good reutilization

Fans with filter - "click & fit" type

Air flow with Filter	Power Supply V-Hz	Cut out Dimensions (mm)	External Dimensions (mm)	Item no.
44 m3/H	230 / 50-60	127 x 127	163 x 163	WT300
97 m3/H	230 / 50-60	181 x 181	214 x 214	WT305
205 m3/H	230 / 50-60	181 x 181	214 x 214	WT308
295 m3/H	230 / 50-60	250 x 250	286 x 286	WT310
485 m3/H	230 / 50-60	250 x 250	286 x 286	WT315

All fans can be used as suction or blower type (except WT315).

Filter grids - Complete with filters

Cut out Dimensions (mm)	External Dimensions (mm)	Item no.
127 x 127	163 x 163	WT330
181 x 181	214 x 214	WT335
250 x 250	286 x 286	WT340

Spare filters

Description	Item no.
120mm x 120mm filter, to suit WT300, WI200 & WT330 - Pack 10 pieces	WT333
170mm x 170mm filter, to suit WT305/308, WI205 & WT335 - Pack 10 pieces	WT338
235mm x 235mm filter, to suit WT310/315, WI210 & WT340 - Pack 10 pieces	WT343



ETA Roof mounting fans

Steel sheet front cover powder painted RAL 7035 textured finish. The units can be delivered with IP54 protection degree.

- Ball bearing radial fans, with internal amperometric protection (only for roof mounting fans)
- High dynamic pressure
- Operating temperature range -20/+55°C
- Power supply chord 3m long according to applicable CE regulation
- IP44 as standard on IP54 on request

ETA Roof Mounting Fans

Air Flow with Filter	Power Supply V-ph-Hz	Cut out Dimensions (L x W mm)	External Dimensions (L x W x H mm)	Item no.
575 m3/H	230-1-50/60	350x270	460x380x108	WT200CW
860 m3/H	230-1-50/60	350x270	460x380x108	WT205CW
1450 m3/H	230-1-50/60	405x275	540x400x160	WT210CW
2365 m3/H	230-1-50/60	420x400	600x550x300	WT215CW

Roof Mounting - Structure Only

Description	Cut out Dimensions (L x W mm)	External Dimensions (L x W x H mm)	Item no.
Roof Mount Structure only	350x270	460 x 380 x 108	WT220CW
Roof Mount Structure only	405x275	540 x 400 x 160	WT225CW
Roof Mount Structure only	420x400	600 x 550 x 300	WT230CW

ETA Thermal management products

Heating & anti-condensation units

Heating Units

Power Watt	V. AC/DC	Height (mm)	IP Rating	Item no.
10	110-250	50	IP54	WI271
20	110-250	60	IP54	WI273
30	110-250	70	IP54	WI274
15	110-250	65	IP20	WI250
30	110-250	65	IP20	WI255
45	110-250	65	IP20	WI260
75	110-250	140	IP20	WI265
150	110-250	220	IP20	WI270
250	230/50-60	182	IP20	WI277*
400	230/50-60	222	IP20	WI279*

*35 m3/h, 45 m3/h (50 Hz) &/or 54 m3/h (60 Hz). Surface temperature of about 75°C.



Heater with fan & thermostat

WIRV-005
PTC (semiconductor).
AC 230V 50-60 Hz/600W.
108 m3/h.
Time capacity: 50,000 hours
to 25°C
0-60 adjustable, contacts NC.

Power Watt	V. AC	Height (mm)	Fan Capacity	IP Rating	Item no.
600	230	-	108 m3/h	IP20	WIRV005
350	230	75	35 m3/h	IP20	WIRV010
550	230	85	35 m3/h	IP20	WIRV020



WIRV 010 & 020
PTC (semiconductor).
0-60 adjustable

Temperature regulators

WI280

Adjustment range: +10 +60°C
Contact capacity:

- Close 5A/250 V AC
- Open 10A/250 V AC

2,5 mm2 - 4 poles
35 mm CLIP fixing on DIN rails
UL 94 VO thermoplastic material
Dimensions - 67 x 50 x 37 mm
IP 20.

WI290 : electronic temperature/humidity controller

Temperature regulation: 0° ÷ 60°C
Intervention Sensitivity: ±2°C
Respective Humidity Regulation : 50% ÷ 90%
230 V/50-60 Hz
Exchange contact: AC 8A (4) / 250 V,
DC 0,5A / 100 V, DC 8A / 12 V, DC 5A / 35 V
CLIP fixing on 35 mm DIN rail
Dimensions - 50 x 67 x 43 mm
UL 94 VO thermoplastic material
IP 20.

WI297 - Air flow monitor

IP 20.

Small thermostat with NO or NC contact

Small mechanical thermostat (NC) for temperature regulation in, for example, cooling equipment, filter fans & heat exchangers or for switching signal devices when temperature limit been exceeded. To be used to control air temperature inside cabinets.

- Heating
- Ventilation
- Signal transmissions

Adjustment range : 0° ÷ 60°C
Bimetallic
Intervention Sensitivity : ±2°C
250V AC
2,5 mm2 - 2 poles
35 mm CLIP fixing on DIN rails
60 x 33 x 35 mm
UL 94 VO thermoplastic material
IP 20.

Thermostat	Item no.
With NC contact	WI282
With NO contact	WI284



WI286 - Universal thermostat

Two thermostats in one casing:
Thermostat (contact breaker, normally closed) for regulation heaters
Thermostat (contact breaker, normally open) for regulation filter fans & heat exchangers or switching signal devices when temperature limit has been exceeded (IP 20).



General purpose inductive proximity sensors

Rhomberg proximity switches - inductive

- Inductive (metal) sensing
- Black cap, cables & LED colour coded for type
- Moulded 2m colour coded cable with fishtail - rated to IP67
- Normally open (NO) has red LED, Normally closed (NC) has green LED
- Interchangeable with other makes

Rhomberg inductive prox 2 wire AC

- 20-250Vac, 50/60Hz
- Series & parallel connection compatible
- 400mA max. load current



Description	Item no.
M12 Dia. 2mm sensing distance shielded AC 2 Wire	RI11202F**
M12 Dia. 4mm sensing distance unshielded AC 2 Wire	RI11204S**
M18 Dia. 5mm sensing distance shielded AC 2 Wire	RI11805F**
M18 Dia. 8mm sensing distance unshielded AC 2 Wire	RI11808S**
M30 Dia. 10mm sensing distance shielded AC 2 Wire	RI13010F**
M30 Dia. 15mm sensing distance unshielded AC 2 Wire	RI13015S**
M40 Dia. 20mm sensing distance shielded AC 2 Wire	RI14020F**
M40 Dia. 25mm sensing distance unshielded AC 2 Wire	RI14025S**

Add "MTP" for sensors with plug instead of 2m standard cable & request pricing.

** Specify NO or NC.



Rhomberg inductive prox 3 or 4 wire PNP & NPN DC

- PNP - 3 or 4 wire yellow cable, NPN - 3 or 4 wire green cable
- 10-60Vdc
- Reverse polarity & short circuit protected
- 400mA max load current

Description	Item no.
M12 Dia.. 2mm sensing distance shielded 3 Wire	RI*1202F**
M12 Dia.. 4mm sensing distance unshielded 3 Wire	RI*1204S**
M18 Dia. 5mmsensing distance shielded 3 Wire	RI*1805F**
M18 Dia. 5mm sensing distance shielded 4 Wire	RI*1805FNX
M18 Dia. 8mm sensing distance unshielded 3 Wire	RI*1808S**
M18 Dia. 8mm sensing distance unshielded 4 Wire	RI*1808SNX
M30 Dia. 10mm sensing distance shielded 3 Wire	RI*3010F**
M30 Dia. 10mm sensing distance shielded 4 Wire	RI*3010FNX
M30 Dia. 15mm sensing distance unshielded 3 Wire	RI*3015S**
M30 Dia. 15mm sensing distance unshielded 4 Wire	RI*3015SNX
M40 Dia. 20mm sensing distance shielded3 Wire	RI*4020F**
M40 Dia. 20mm sensing distance shielded 4 Wire	RI*4020FNX
M40 Dia. 25mm sensing distance unshielded 3 Wire	RI*4025S**
M40 Dia. 25mm sensing distance unshielded 4 Wire	RI*4025SNX

Add "MTP" for sensors with plug instead of 2m standard cable & request pricing.

* Specify 4 for PNP or 5 for NPN

** Specify NO or NC

NX = 4 wire NO & NC



General purpose inductive proximity sensors

Rhomberg inductive prox NAMUR 2 wire

- 2 Wire (Blue Cable)
- Designed to DIN 19234
- Interfaces with Rhomberg SC320 or SC300 relay

Description	Item no.
M12 Dia. 2mm sensing distance shielded	RI01202FNC
M12 Dia. 4mm sensing distance unshielded	RI01204SNC
M18 Dia. 5mm sensing distance shielded	RI01805FNC
M18 Dia. 8mm sensing distance unshielded	RI01808SNC
M30 Dia. 10mm sensing distance shielded	RI03010FNC
M30 Dia. 15mm sensing distance unshielded	RI03015SNC
M40 Dia. 20mm sensing distance shielded	RI04020FNC
M40 Dia. 25mm sensing distance unshielded	RI04025SNC
Switching amplifier/relay for NAMUR sensors plug in	SC300/*-SP
Control relay for rhomberg photo electric sensors plug in	SC410/*-SP
11 Pin DIN rail base	S3B

Add "-MTP" for sensors with plug instead of cable & request pricing.

* Specify voltage: 12, 24Vdc & 24, 110, 240, 415Vac.



General purpose capacitive proximity sensors

Rhomberg proximity switches - capacitive

- Capacitive (most materials) densing
- Adjustable densitivity
- White cap, cables & LED colour coded for type
- Moulded 2m colour coded cable with fishtail - rated to IP67
- Normally open (NO) has red LED, normally closed (Nc) has green LED
- Interchangeable with other makes

Rhomberg capacitive prox 2 wire AC

- 20-250Vac, 50/60Hz
- Series & parallel connection compatible
- 400mA max load current



Description	Item no.
M18 Dia. 5mm sensing distance shielded AC 2 wire	RC11805F**
M18 Dia. 10mm sensing distance unshielded AC 2 wire	RC11810S**
M30 Dia. 10mm sensing distance shielded AC 2 wire	RC13010F**
M30 Dia. 20mm sensing distance unshielded AC 2 wire	RC13020S**

Add "MTP" for sensors with plug instead of 2m standard cable & request pricing.

** Specify NO or NC.

Ancillary products

Rhomberg

General purpose capacitive proximity sensors

Rhomberg capacitive prox 3 wire PNP & NPN DC

- PNP - 3 wire yellow cable, NPN - 3 Wire green cable
- 10-60Vdc
- reverse polarity & short circuit protected
- 400mA max load current



Description	Item no.
M18 Dia. 5mm sensing distance shielded	RC*1805F**
M18 Dia. 10mm sensing distance unshielded	RC*1810S**
M30 Dia. 10mm sensing distance shielded	RC*3010F**
M30 Dia. 20mm sensing distance unshielded	RC*3020S**

Add "MTP" for sensors with plug instead of 2m standard cable & request pricing.

* Specify 4 for PNP or 5 for NPN.

** Specify NO or NC.



Rhomberg capacitive prox NAMUR 2 wire

- 2 Wire (blue cable)
- Designed to DIN 19234
- Interfaces with SC320 or SC300 relay



Description	Item no.
M30 Dia. 10mm sensing distance shielded	RC03010FNC
M30 Dia. 20mm sensing distance unshielded	RC03020SNC
Switching Amplifier/Relay For NAMUR sensors plug in	SC300/*-SP
Control relay for rhomberg photo electric sensors plug in	SC410/*-SP
11 Pin DIN rail base	S3B

Add "-MTP" for sensors with plug instead of 2m standard cable & request pricing.

* Specify voltage: 12, 24Vdc & 24, 110, 240, 415Vac.

Rhomberg capacitive prox plastic body 1.5" BSP



Description	Item no.
1.5" BSP20mm sensing distance NAMUR Type	RC04020SNCPBT
1.5" BSP20mm sensing distance DC Type NO	RC44020SNOPBT
1.5" BSP20mm sensing distance DC Type NC	RC44020SNCPBT
1.5" BSP20mm sensing distance DC Type NO	RC54020SNOPBT
1.5" BSP20mm sensing distance DC Type NC	RC54020SNCPBT

Monitoring relays

Rhombert 3-phase sequence/failure/asymmetry relays

- Protects against phase imbalance or asymmetry, phase loss or phase reversal
- Sensitivity (Nps) adjustment
- Insensitive to regenerated EMF
- Loss of neutral detection in SP431



Description	Item no.
Ph Fail, Ph Seq, Ph Asy detection with 1 C/O & LEDs	AP430/*S
Ph Fail, Ph Seq, Ph Asy detection with 2 C/O & LEDs	AP430/*D
Ph Fail, Ph Seq, Ph Asy detection Plug In 1 C/O & LEDs	SP430/*-SP
Ph Fail, Ph Seq, Ph Asy detection Plug In 2 C/O & LEDs	SP430/*-DP
Ph Fail, Ph Seq, Ph Asy loss of neutral detection plug in	SP431/*-SP
Ph Fail, Ph Seq detection plug in with LEDs	SP433/*-SP
11 Pin DIN rail base	S3B

* Specify voltage: 110, 115, 220, 380, 400, 415 & 525Vac.

Rhombert current relays/monitors (AC & DC) single phase

- 11 Pin plug in or DIN rail mount relay (with plug in terminals)
- 250Vac/10A relay
- Single pole & 2 pole configuration
- Slimline & Slimline-D series



Description	Item no.
Current monitor 5 Amp AC/DC selectable with time delay plug in	SP103/*-SP
Current monitor for DC shunt selectable with time delay plug in	SP104/*-SP
Current window comparator AC adjustable with time delay plug in	SP123/*-SP
single phase reverse power monitor for ac current	SP510/**-SP
11 Pin DIN rail base	S3B

* Specify voltage: 12, 24Vdc & 24, 110, 240, 415Vac.

** Specify voltage: 24, 110, 240, 415Vac.

Rhombert voltage monitors (AC & DC) & frequency relays

- 11 Pin plug in or DIN rail mount relay (with plug in terminals)
- 250Vac/10A relay
- Slimline & Slimline-D series

Description	Item no.
Voltage Comparator adj delay DPDT 415VAC	AP231/400AD
Overvoltage & undervoltage monitoring relay, 24VDC	AP224/24VDCS
Overvoltage & undervoltage monitoring relay, 240VAC	AP224/240VACS
Voltage Monitor 1-Ph Selectable with Time Delay Plug In	SP201/*-SP
Voltage Window Comparator 1-Ph selectable with time delay plug in	SP221/*-SP
Voltage Window Comparator 3-Ph selectable with time delay plug in	SP231/**-SP
Voltage Window Comparator 3-Ph + N over & under	SP232/**-SP
Frequency Monitor Over & Under 50Hz	SP320/**-SP
11 Pin DIN rail base	S3B

* Specify voltage: 12, 24Vdc & 24, 110, 240, 415Vac

** Specify voltage: 24, 110, 240, 415Vac.

Monitoring relays

Rhomberg bases for monitoring relays

- Shrouded terminals



Description	Item no.
11 Pin DIN rail socket / base	S3B

Rhomberg motor/pump protection relays

- Borehole pump protection
- Auto-calibrating
- Overload (blocking/closed valve) protection
- Underload (running dry) protection with auto restart timer
- Max 4kw without external CT
- Over & under voltage protection
- Phase sequence/failure monitoring
- Liquid level control



Description	Item no.
Motor/pump protection relay 240Vac single phase	MP820/240AS
Motor/pump protection relay 400-415Vac three phase	MP830/415AS

Control relays

- Switching amplifiers, tacho relays, thermistor relays, flip flop relays
- Power supply modules



Description	Item no.
Switching amplifier/relay for NAMUR sensors plug in	SC300/*-SP
Switching amplifier/relay for three wire DC sensors plug in	SC314/*-SP
Tacho relay for NAMUR Sensors Pulse In 0-1mA re-transmit plug in	SC320/*-SP
Control relay for Rhomberg photo electric sensors plug in	SC410/*-SP
Temperature control relay for PT-100/Rtd sensors plug in	SC501/*-SP
Thermistor motor protection relay auto reset plug in	SC510/*-SP
Thermistor motor protection relay auto reset plug in	SC510/*-DP
Thermistor motor protection relay test & reset buttons plug in	SC511/*-SP
Flip flop relay no memory contact input plug in	SC610/*-SP
Flip flop relay with memory contact input or sensor plug in	SC611/*-SP
Multi function preselect counter plug in	SC700/*-SP
Preset counter panel mount 48x48	CC701/*DSP
Power Supply 250Vac / 24Vac 150mA unregulated plug in	SC900/240/24A
Power Supply 250Vac / 24Vdc 120mA unregulated plug in	SC900/240/24D
Power Supply 250Vac / 24Vdc 100mA regulated plug in	SC900/240/24R
Power Supply 240Vac / 12Vdc 150mA regulated plug in	SC900/240/12R
11 Pin DIN rail base	S3B

* Specify voltage: 12, 24Vdc & 24, 110, 240, 415Vac.

Timers

Rhomberg multi-function DIN rail & plug in

- Delayed-on, interval, recycling functions 22.5Mm size
- 0.2 Sec. To 100 hours
- DPDT Relay (5A per contact)

Description	Item no.
0.2 Sec - 100 Hrs 2 Timed Contacts DIN Rail	AT100/**D
0.2 Sec - 120 Sec 2 Timed Contacts 11 Pin	ST100/**DP
22 Sec - 240 Min 2 Timed Contacts 11 Pin	ST101/**DP
0.2 Sec - 100 Hrs 1 Timed Contact DIN Rail	AT110/*S
0.2 Sec - 120 Sec 2 Timed Contacts 11 Pin (Hold or Pulse Reset NPN)	ST110/**DP
22 Sec - 240 Min 2 Timed Contacts 11 Pin (Hold or Pulse Reset NPN)	ST111/**DP
11 Pin DIN Rail Base (Accepts Retainer Clip with Plug in Timers)	S3B

* Specify voltage: 12, 24Vdc, 24, 110, 240, 415Vac.

** Specify voltage: 30Vdc, 250, 415Vac.



Rhomberg asymmetrical recycling din rail & plug in

- Asymmetrical recycling - on or off cycle first
- DPDT Relay (5A per contact)
- DIN Rail & plug in 22.5mm size

Description	Item no.
0.2 Sec - 240 Min 2 Timed Contacts DIN Rail	AT200/**D
T1 = 0 - 120s, T2 = 0 - 120s 2 Timed Contacts 11 Pin	ST200/**DP
T1 = 0 - 120s, T2 = 22s - 240m 2 Timed Contacts 11 Pin	ST201/**DP
T1 = 22s - 240m, T2 = 22s - 240m 2 Timed Contacts 11 Pin	ST202/**DP
T1 = 22s - 240m, T2 = 0 - 120s 2 Timed Contacts 11 Pin	ST203/**DP
Multi Function Type 0.2 Sec - 120 Sec 1 Timed Contact 11 Pin	ST210/*SP
11 Pin DIN Rail Base (Accepts Retainer Clip with Plug in Timers)	S3B

* Specify voltage: 12, 24Vdc & 24, 110, 240, 415Vac

** Specify voltage: 30Vdc & 250, 415Vac



Rhomberg special function timers

- No power delayed off functions - 'true off delay'
- Multi start attempt timer for repeated starting attempts of standby generator sets with start failure alarm output
- Slim housing (22.5Mm)

Description	Item no.
0.2 Sec - 120 Sec No Power Delay OFF Timer 1 Timed Contact 11 Pin	ST300/*SP
22 Sec - 240 Min No Power Delay OFF Timer 1 Timed Contact 11 Pin	ST301/*SP
Multi Start Attempt Timer 1 C/O	AT500/*S
11 Pin DIN Rail Base (Accepts Retainer Clip with Timer)	S3B

* Specify voltage: 12, 24Vdc & 24, 110, 240, 415Vac.



Rhomberg star delta timers

- Star time adjustable up to 60 sec. (30 Sec. Max adjustment available on request)
- Pause time 75msec (50msec available on request)
- Relay rests in "centre-off" position during pause & power off state
- 5A Relay output

Description	Item no.
Star Time Adjustable Pause Time 75msec Fixed 1 C/O DIN Rail	AT130/*AS
Star Time Adjustable Pause Time 75msec Fixed 1 C/O Plug in	ST130/*-SP
11 Pin DIN Rail Base (Accepts Retainer Clip with St310)	S3B

* Specify voltage: 110, 240, 415Vac





Liquid level controllers

- Level control of conductive liquids - relay & probes
- Level control of non-conductive liquids or granular materials
- Relay for use with capacitive proximity switches

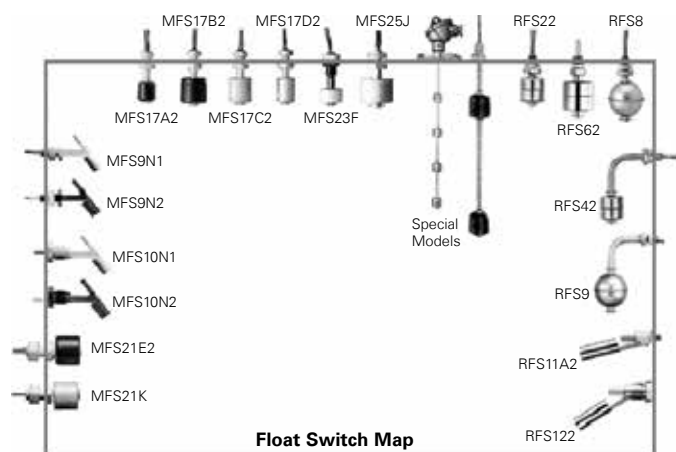
Description	Item no.
Level relay for resistive sensors single point control plug in	SC100/***ACS
Level relay single pt high / low C/W drain function 1 C/O	AC130/***S
Level relay single pt high / low C/W drain function 2 C/O	AC130/***D
Level relay single pt high / low C/W drain function 1 C/O plug in	SC130/***S
Level relay single pt high / low C/W drain function 2 C/O plug in	SC130/***D
Level relay non conductive type single pt high / low 1 C/O plug in	SC230/*SP
11 Pin DIN Rail Base	S3B
Accessories	
Probe holder with screw cap incl 3 X 1 MTR coated SS316 rods	CP3C
Probe holder with screw cap incl 2 X 1 MTR coated SS316 rods	CP2C
Probe holder with screw cap incl 1 X 1 MTR coated SS316 rods	CP1C
Extension rods 1 MTR male / female	EP1/CEXT

* Specify voltage: 12, 24Vdc & 24, 110, 240, 415Vac.

*** Specify voltage: 24, 110, 240, 415Vac.

Riko float switches

- Stainless & plastic type floats
- Horizontal & vertical types
- Multiple level switches
- Suitable For 240Vac



Description	Item no.
1/2" NPT polypropylene horizontal float switch, 90mm x 15mm Dia. 0.5 Amp	MFS10N1
1/2" NPT nylon-6 horizontal float switch, 90mm long x 15mm Dia. 0.5 Amp	MFS10N2
PA/rubber upright float switch, 44mm long x 20mm Dia. 0.5 Amp	MFS17A2
PA/rubber upright float switch, 44mm long x 20mm Dia. 0.5 Amp, PP clip	MFS17A2PPC
PA/rubber upright float switch, 44mm long x 26.5mm Dia. 0.5 Amp	MFS17B2
Polypropylene upright float switch, 44mm long x 25mm Dia. 0.5 Amp	MFS17C2
Polypropylene upright float switch, 44mm long x 18mm Dia. 0.5 Amp	MFS17D2
1/4" PF PA/rubber horizontal float switch, 38mm x 31mm Dia. 0.5 Amp	MFS21E2
Polypropylene horizontal float switch, 73mm x 15mm Dia. 0.5 Amp	MFS9N1
Nylon-6 horizontal float switch, 73mm long x 15mm Dia. 0.5 Amp	MFS9N2
S/S Horizontal float switch, 73mm long x 28mm Dia. 0.5 Amp	RFS11A2
1/2" NPT S/S horizontal float switch, 94mm Long x 17mm Dia. 0.5 Amp	RFS122
S/S upright float switch, 42mm long x 28mm Dia. 0.5 Amp	RFS22
S/S elbow float switch, 83.5mm long x 28mm Dia. 0.5 Amp	RFS42
S/S upright float switch, 75 long x 50mm Dia. 0.5 Amp	RFS62
S/S upright float switch, 59mm long x 43mm Dia. 0.5 Amp	RFS8
S/S elbow float switch, 99mm long x 28mm Dia. 0.5 Amp	RFS9
316S/S float only, RFS22	FLOAT316SS
316S/S float only, RFS62	FLOAT50MM316

Ancillary products

Power quality



Rugged, commercial surge filter

PSFI key features:

- Surge suppression rating of 25kA (L-N)
- 2 Mode, 3 Element Series Filter
- 3 Mode, 2 Stage Surge Diverter
- Rugged steel IP24 enclosure
- Protection Fail Indicators
- 12 Month Warranty

The PSFI is a 1-Phase 25kA portable surge filter, designed to provide secondary protection against power surges caused by external sources such as lightning strikes & substation switching, as well as providing a measure of protection from surge events generated on the secondary side of the filter.

Model/Description	In (x20 hits)	I _{max}	Joules	Dimensions (mm) WxDxH, kg	Item no.
1 Ph, 10A IEC input/output surge filter	10kA	25kA	1555J	90 x 205 x 55, 1kg	PSF10I
1 Ph, 16A IEC input/output surge filter	10kA	25kA	1555J	90 x 205 x 55, 1kg	PSF16I



Class I - diverters

SPDI surge protection, spark gap surge arresters

Features:

- 1 mode direct strike protection
- 25kA, 50kA & 100kA surge suppression ratings
- DIN43880 case, 35 mm wide

Designed to protect single phase power systems against damage from surges & spikes caused by lightning & other electrical sources. The unit is intended for high risk point of entry protection & is connected in parallel with the system via HRC fuses.

Applications

- Direct strike Class I high risk point of entry

Technical specifications

Description	SPDSG50-300	SPDSG50-255NPE
Nominal voltage U _n	230vac	230vac
Max continuous voltage U _c AC/DC	300vac	255vac
Nominal discharge current (10/350us, kA) per line. I _{imp}	50	50
Max discharge current (8/20us, kA) Per line. I _{max} .	140	140
Voltage protection level (10/350us) I _{imp}	<2.5kV	<2.5kV
Follow current	None	None
Leakage current	None	None
Dimensions	35mm (W) x 100mm (H) x 77mm (D)	35mm (W) x 100mm (H) x 77mm (D)
Applicable standards	IEC61643-1:2001	IEC61643-1:2001

Description	Class	Item no.
2 Pole, 255v, 50kA, 1 mode surge diverter	I	SPDSG50-255NPE
2 Pole, 300v, 50kA, 1 mode surge diverter	I	SPDSG50-300



Class II - diverters

SPDI Series diverters, DIN rail mounted surge diverters

SPDI key features:

- 1 or 2 Mode, 1 Stage Surge Diverter
- Surge rating from 40kA - 120kA
- Din 43880 profile IP20 enclosure
- Versatile mounting clips for DIN or Surface Mount
- 12 Month Warranty

The SPDI range of DIN surge diverters provide the ultimate solution for surge protection in single & multi-phase systems. The units are housed in a genuine DIN43880 profile enclosure, enabling them to be easily included in new designs or retrofitted into existing switchboards. SPDI surge diverters can be installed as point-of-entry or sub-board protection & are connected in parallel with the power circuit via separate protection HRC fuses. The SPDI utilises state-of-the-art MOV technology featuring embedded thermal fusing.

Class II - diverters

DIN rail mounted surge diverters

Specifications	SPDT60-255	SPDV60-300	SPD150I	SPD360NI	SPD360GI
Input voltage	220-250VAC, 1 Phase	220-250VAC, 1 Phase	220-277VAC, 1 Phase	220-277VAC (380-480V), 3 Phase	220-300VAC (380-520V), 3 Phase
Maximum continuous operating voltage (MCOV)	255VAC	300VAC	320VAC	320VAC	350VAC
Temporary over-voltage (TOV)	300VAC	320VAC, 15 mins	350VAC, 15 mins	350VAC, 15 mins	420VAC, 15 mins
Initial clamp voltage	N/A	470V	560V	560V	680V
Maximum rated surge current – Ismax 8/20us	60kA	60kA	120kA	60kA / Phase	60kA / Phase
Nominal surge current – In 8/20us	30kA	30kA	60kA	30kA / Phase	30kA / Phase
Residual voltage (Vpl) @ 3kA, 8/20us	N/A	1.0kV	1.0kV	≤ 1.2kV L-N, 900V N-E	≤ 1.2kV L-E, ≤ 1.4kV N-E
Residual voltage (Vpl) @ Ismax, 8/20us	1.8kV	1.4kV	1.65kV	≤ 2.1kV L-N, 1.46kV N-E	≤ 2.1kV L-E, < 2.45kV N-E
Energy absorption (2ms)	N/A	2,130 Joules	2,130 Joules	2,130 Joules	3,640 Joules
Modes of Protection	N-E	L-N	L-N or L-E	L-N & N-E	L-E & N-E
Recommended maximum over-current protection	NIL	gG/gL HRC fuse, 160A maximum	gG/gL HRC fuses, 1 per phase, 125A maximum		
Terminations	Power: 25mm ² , Alarm: 1.5mm ²	Power: 25mm ² , Alarm: 1.5mm ²	Power: 16mm ² , Alarm: 1.5mm ²		
Alarms / indicators	Flag indicator, dry contact – 250VA/32VDC, 2A	Flag indicator, dry contact – 250VA/32VDC, 2A	5 indicators, dry contact alarm relay – 250VAC/32VDC, 5A		
Design standards	IEC61643-1, IEC610006, ANSI/IEEE C62.41, AS1768-2003, AS3100, CE mark				

SPDI - Shunt diverters - single & three phase - DIN rail mount (hardwired)

Model/description	Class	Dimensions (mm) W x D x H, kg	Item no.
1P 60kA 1 Mode DIN surge diverter N-E	II	18 x 65 x 97, 0.1kg	SPDT60-255
1P 60kA 1 Mode DIN surge diverter L-E, L-N	II	18 x 65 x 97, 0.1kg	SPDV60-300
1 Phase 120kA 1 Mode DIN surge diverter	II	70 x 68 x 90, 0.2kg	SPD150I
3 Phase 60kA 2 Mode DIN surge diverter (M.E.N)	II	70 x 68 x 90, 0.2kg	SPD360NI
3 Phase 60kA 2 Mode DIN surge diverter (non-M.E.N)	II	70 x 68 x 90, 0.2kg	SPD360GI

Note: For installations remote from the M.E.N link using SPDV60-300 or SPD150I, use with an SPD50NGi for N-E protection. The SPDV60-300 is also available as a Gas-Arrestor (SPDT60-255).

Class II, Quickmov™ surge diverter

Quickmov™ key features:

- 1 Mode, 1 Stage Surge Diverter
- Mounts directly in any Quicklag™ panelboard
- Surge suppression MOV rating 30kA Inom, 60kA Imax
- Ideal for main board or sub-board protection
- Includes built-in HRC fuse for safe disconnect
- Compatible with most Quicklag™ accessories

Eaton's Quickmov™ is a fully integrated surge diverter, designed to provide point-of-entry or sub-board protection against surge transients & voltage spikes. The unit is intended for installation at the main switchboard or to be used in conjunction with an SPD50NGi Neutral-Earth Arrestor for Non-M.E.N locations. One Quickmov™ per phase is required for multi-phase installations.



Model/description	Class	Dimensions (mm) W x D x H, kg	Item no.
1P 60kA Quickmov surge diverter	II	25 x 71 x 93, 0.3kg	SPDQM1

Note: For installations remote from the M.E.N link, use with an SPD50NGi for N-E protection. For compatible accessories refer to Quicklag accessories

Ancillary products

Power quality



Class II, Neutral – Earth surge protector

SPDNGI Key features:

- Compact neutral-earth protection solution
- Surge current rating from 25kA Inom, 50kA Imax
- Compatible with most switchboards
- Quick and simple installation

The SPDNGI is designed to protect against Neutral to Earth surge transients and can also be applied as an Equipotential Coupler in applications where separate earth systems are used.

Commercial and Industrial Environments at point of building entry protection, three phase, c/w Common & Normal Mode Protection

Model/description	Class	Dimensions (mm) W x D x H, kg	Item no.
50kA Equipotential Coupler	II	60 x 15 x 15 (not incl cables), 0.15kg	SPD50NGI

Single & three phase 50-80A surge filter

ESF key features:

- 1 Mode, 2 element series filter
- 3 Mode, 2 stage surge diverter
- Available in 50, 63 & 80 Amp ratings
- Surge suppression rating of 100kA
- Protection fail alarm relay
- IP42 Steel Enclosure

The ESF surge filter is designed to provide point-of-entry protection against power surges caused by external sources as well as providing a measure of protection from surge events generated on the secondary side of the filter. The ESF is a 3-stage protection unit utilising primary & secondary MOV protection in conjunction with a Low-Q LC filter.

ESF - Single phase (hardwired in/out) - series filter c/w enclosure & remote alarm

For use in industrial and commercial applications where there are severe power problems such as electrical noise

Model/description	Amps	In (x20 hits)	I _{max}	Class	Dimensions (mm) W x D x H, kg	Item no.
1 Ph, 50A, 100kA, Surge Filter	50A	50kA	100kA	II & III	240 x 220 x 520, 6kg	ESF501-TN-E
1 Ph, 63A, 100kA, Surge Filter	63A	50kA	100kA	II & III	240 x 220 x 520, 6kg	ESF631-TN-E
1 Ph, 80A, 100kA, Surge Filter	80A	50kA	100kA	II & III	240 x 220 x 520, 6kg	ESF801-TN-E

ESF - Three Phase (hardwired in/out) - series filter c/w enclosure & remote alarm

For use in industrial and commercial applications where there are severe power problems such as electrical noise

Model/description	Amps	In (x20 hits)	I _{max}	Class	Dimensions (mm) W x D x H, kg	Item no.
3 Ph, 50A, 100kA, Surge Filter	50A	50kA/Ph	100kA/Ph	II & III	400 x 220 x 520, 10kg	ESF503-TN-E
3 Ph, 63A, 100kA, Surge Filter	63A	50kA/Ph	100kA/Ph	II & III	400 x 220 x 520, 10kg	ESF633-TN-E
3 Ph, 80A, 100kA, Surge Filter	80A	50kA/Ph	100kA/Ph	II & III	400 x 220 x 520, 10kg	ESF803-TN-E

Single phase high performance surge filter

DSFI Key features:

- Surge suppression & filtering in a single package
- 2 Mode, 5 element series filter
- 3 Mode, 2 stage surge diverter
- Enclosed in IP20 painted steel housing
- Protection Fail Alarm Relay
- 5 Year Warranty



Input voltage	Amps	In (x20 hits)	I _{max}	Joules	Protection Mode	Recommended maximum over-current protection
200-250VAC, 1 Phase	5 - 32A	15kA	40kA	2225J	L-N, L-E, N-E	gG/gL HRC fuse 32A or MCB 32A

DSFI - series filter - single phase (hardwired) - panel mount

For use in industrial and commercial applications where there are severe power problems such as electrical noise

Model/description	Class	Dimensions (mm) W x D x H, kg	Item no.
1 Ph, 32 Amp, Hardwired series Surge Filter	II	140 x 50 x 270, 1.5kg	DSFI

Single phase DIN rail compact surge filter

CSFI Key features:

- Surge suppression & filtering
- 2 Mode, 3 element series filter
- 3 Mode, 2 stage surge diverter
- DIN rail mountable 35mm wide
- Protection Fail Alarm Relay
- 12 Month Warranty

Input voltage	Amps	In (x20 hits)	I _{max}	Joules	Protection mode	Recommended maximum over-current protection
200-250VAC, 1 Phase	5 - 25A	10kA	25kA	1555J	L-N, L-E, N-E	gG/gL HRC fuse 25A or MCB 25A



CSFI - Series filter - single phase (hardwired) - DIN rail

For use in industrial and commercial applications where there are severe power problems such as electrical noise

Model/description	Class	Dimensions (mm) W x D x H, kg	Item no.
1 Ph, 25 A, DIN rail, series Surge Filter 240V	II	70 x 68 x 90, 0.2kg	CSFI

Three phase surge diverter

SPD3200 Key features:

- Protection rating 200kA per phase
 - LE & N-E protection
 - LED indicators and in-built surge counter
 - Includes 3 Ph MCB safety disconnect within enclosure
 - Surge suppression rating of 200kA
 - IP50 Steel Enclosure
 - Protection Fail Alarm Relay
 - 5 Year Warranty
- The SPD3200-TN-E is designed to protect three phase power systems against damage from surges and spikes caused by lightning and other electrical sources. The unit is intended for point of entry or main board protection and is connected in parallel with the power system via its own safety disconnect MCB.

Input voltage	In (x20 hits)	I _{max}	Protection mode	Recommended maximum over-current protection
200-250VAC (380-440V) 3 Phase	100kA/ph	200kA/ph	L-E, N-E	63A gG HRC fuse, 1 per phase



SPD3200 - Shunt diverter - three phase - wall mount (hardwired in/out)

commercial and Industrial Environments at point of building entry protection, three phase, c/w Common & Normal Mode Protection

Model/description	Class	Dimensions (mm) W x D x H, kg	Item no.
3 Ph, 200kA/ph, Shunt Diverter,	II & III	280 x 125 x 360, 7kg	SPD3200-TN-E

Three phase premium power filter

PPFI Key features:

- 1 Mode, Multi-Element Series Filter
 - 2 Mode, 2 Stage Surge Diverter
 - Standard current ratings from 100A to 400 Amps
 - Surge suppression ratings from 80kA to 120kA
 - Incorporates EN certified EMI/RFI Filter
 - Provides extensive high frequency and RF filtering
 - Panel mounted mimic display
 - Protection Fail Alarm Relay
 - IP 24 Steel Enclosure
 - 5 Year Warranty
- The PPFI is designed to provide point-of-entry and sub-circuit protection against power surges caused by sources such as lightning strikes and substation switching, as well as providing a measure of protection from surge events generated on the secondary side of the filter. The PPFI is a 3-stage protection unit utilising primary and secondary MOV protection in conjunction with a Low-Q LC Filter. The unit provides filtering of line harmonics, noise and RF transmitters with a cut-off frequency of <10kHz and attenuation of >70dB above 1Mhz.

PPFI - Three phase (hardwired in/out) - surge power filter c/w enclosure & remote alarms

For use as point-of-entry or sub-board protection in industrial & commercial applications where there are severe power problems.

Model/description	Amps per phase	In (x20 hits)	I _{max}	Joules	Category	Dimensions (mm) W x D x H, kg	Item no.
3 Ph, 100A, 80kA	100A	30kA/Ph	80kA/Ph	7530J	B/C/D/E	600 x 200 x 800, 50kg	PPF1003CEI
3 Ph, 100A, 120kA	100A	45kA/Ph	120kA/Ph	7910J	B/C/D/E	600 x 200 x 800, 50kg	PPF1003DEI
3 Ph, 160A, 80kA	160A	30kA/Ph	80kA/Ph	7530J	B/C/D/E	600 x 200 x 800, 50kg	PPF1603CEI
3 Ph, 160A, 120kA	160A	45kA/Ph	120kA/Ph	7910J	B/C/D/E	600 x 200 x 800, 50kg	PPF1603DEI
3 Ph, 200A, 80kA	200A	30kA/Ph	80kA/Ph	7530J	B/C/D/E	600 x 200 x 800, 60kg	PPF2003CEI
3 Ph, 200A, 120kA	200A	45kA/Ph	120kA/Ph	7910J	B/C/D/E	600 x 200 x 800, 60kg	PPF2003DEI
3 Ph, 250A, 80kA	250A	30kA/Ph	80kA/Ph	7530J	B/C/D/E	600 x 250 x 1000, 75kg	PPF3003CEI
3 Ph, 250A, 120kA	250A	45kA/Ph	120kA/Ph	7910J	B/C/D/E	600 x 250 x 1000, 75kg	PPF3003DEI
3 Ph, 400, 80kA	400A	30kA/Ph	80kA/Ph	7530J	B/C/D/E	600 x 250 x 1000, 75kg	PPF4003CEI
3 Ph, 400A, 120kA	400A	45kA/Ph	120kA/Ph	7910J	B/C/D/E	600 x 250 x 1000, 75kg	PPF4003DEI



Ancillary products

Power quality



Class III diverters & filters

I.T. Data & Telecommunication Protection

Eaton's line of data & telecommunication surge suppression products are available for nearly any configuration & offer complete protection for computers & small to large networks, communication devices, phone systems, printers, fax machines & much more.

Wherever uptime is essential, Eaton delivers a comprehensive, single-source power management solution to ensure maximum reliability through the life of your vital applications. Our unique surge protection systems represent a fundamental component of the complete facility solution.

Designed to safeguard against harmful & potentially disastrous surges & spikes, our data surge suppression solutions protect your equipment from the damage frequently caused

by lightning strikes, brownouts, electrical load switching, faulty wiring, downed power lines & more. For more information, please contact your local Eaton representative.

Low voltage DC surge diverters to suit data & extra low voltage power applications available in 5, 12, 24 & 48 Volt models.

Features:

- 1 mode plug-in protection
- 10kA surge suppression rating
- Compact solution for data & ELV systems protection
- DIN43880 case, 13 mm wide

Applications

- Data networks signalling protection

Technical specifications, DM series

Description	SPD-DM05	SPD-DM12	SPD-DM24	SPD-DM48
Nominal voltage Un	5	12	24	48
Max continuous voltage Uc DC	6	15	28	60
Nominal discharge current (8/20us, kA) per line. Inom.	5	5	5	5
Max discharge current (8/20us, kA) Per line. Imax.	10	10	10	10
Nominal current (A) IL	0.5	0.5	0.5	0.5
Voltage protection level (8/20us, V) Up Line -Line, Line - Ground	<80v <350v	<150v <350v	<200v <500v	<250v <500v
Voltage protection level (1KV/us, V) Up Line - Line, Line - ground	<10v <600v	<18v <600v	<30v <600v	<70v <600v
Series impedance per line (Ohm)	4	4	4	4
Insertion loss at 100Mhz (dB)	<3.0	<3.0	<3.0	<3.0

SPD-DM series

Description	Item no.
1 Pole, 5vdc, 10kA, 1 mode Surge Diverter w/ removable module	SPD-DM05
1 Pole, 12vdc, 10kA, 1 mode Surge Diverter w/ removable module	SPD-DM12
1 Pole, 24vdc, 10kA, 1 mode Surge Diverter w/ removable module	SPD-DM24
1 Pole, 48vdc, 10kA, 1 mode Surge Diverter w/ removable module	SPD-DM48

Technical specifications, SF8RM

Current rating	I _{max} L - N	V _{pl} (let through voltage)	MCOV	Filter type	Attenuation	Input connection	Output connections	Dimensions (mm) W x D x H	Weight (kg)
10A total	22.5kA	< 700V @ 3kA	300vac	Low Q / low C filter, differential & common mode	> 50dB above 1Mhz	Approved 3 Pin Australian 10A plug	Australian 3 pin 10A sockets x 8	441 x 120 x 44	1.2

SF8RU rack mount surge filter

Description	Item no.
Surge filter, 19", 1 RU, 8 way, rack mount	SF8RM

Class II solar cell surge diverters

Photo voltaic diverters

The PVD series diverters are designed to protect home & industrial solar panel arrays commonly used in grid interactive power solutions in the 1.5kW to 5kW range. These systems commonly use 500, 600 & 1000VDC solar panel arrays. The PVD series diverters are designed to protect the DC input side of grid interactive inverters from harmful transients that can appear on the output of solar arrays, especially where they are located on roof or other high infrastructure locations. IEC61643-1 & UL1449 ed3 compliant. Available in 3 models to suit 500, 600 & 1000VDC systems.

Features:

- 2 mode plug in protection
- 40kA surge suppression rating
- Compact modular solution
- 2 & 3 unit DIN43880 case, 36 & 54mm DIN-rail mount
- Floating contact alarm output

Applications

- Stand alone & Grid Interactive Solar arrays.



Technical specifications

Description	PVD40-500-V-C	PVD40-600-V-C	PVD40-1000-V-CD
Nominal Voltage Un	500VDC	600VDC	1000VDC
Max Continuous Voltage Uc	530VDC	620VDC	1060VDC
Nominal Discharge Current (8/20us, kA) Inom.	20	20	20
Max Discharge Current (8/20us, kA) Imax.	40	40	40
Nominal current (ma) IL	10	10	10
Residual voltage (Vpl) @ Inom 20kA, 8/20us	1.6kV	2.0kV	3.2kV
Test classification	Class II	Class II	Class II
Internal protection	MOV thermal disconnect	MOV thermal disconnect	MOV thermal disconnect
Alarm & indicators	Red flag indicator on module Alarm relay contact. 250vac/24vdc, 2A	Red flag indicator on module Alarm relay contact. 250vac/24vdc, 2A	Red flag indicator on module Alarm relay contact. 250vac/24vdc, 2A
Terminations	Main terminals 25mm Alarm terminals 1.5mm	Main terminals 25mm Alarm terminals 1.5mm	Main terminals 25mm Alarm terminals 1.5mm

Description	Item no.
2 Pole, 500vdc, 40kA, 2 mode (-ve - earth, +ve - earth) Surge Diverter w/ removable modules, floating contact alarm output	PVD40-500-V-C
2 Pole, 600vdc, 40kA, 2 mode (-ve - earth, +ve - earth) Surge Diverter w/ removable modules, floating contact alarm output	PVD40-600-V-C
3 Pole, 1000vdc, 40kA, 2 mode (-ve - earth, +ve - earth) Surge Diverter w/ removable modules, floating contact alarm output	PVD40-1000-V-CD

Ancillary products

Power quality



Power conditioners

500VA to 2500VA portable power conditioners

Designed & manufactured in Australia, the Sola 200/210 portable power conditioner provides smooth stepless control of output voltage to your computer or electronic system, whilst attenuating harmful impulses, surges & other power line disturbances. The Sola 200/210 incorporates improved surge withstand capabilities, as specified by ANSI/IEEE C62.41-1980 & is covered by the SECV Certificate of Suitability Number CS84292V.

Technical specifications

Description	
Input	
Voltage:	220 or 240 Volt AC
Frequency:	50 Hz
Input Voltage Range:	+ 10%, -20% ($\pm 40\%$)
Protection:	ANSI/IEEE C62.41-1980 A & B waveforms suppressed to safe levels
Output	
Nominal Voltage:	220 or 240 Volt AC
Frequency:	50 Hz
Voltage Regulation:	$\pm 3\%$ for +10%, -20% input +5%, -8% for $\pm 40\%$ input
Control:	AC on/off switch
Power Efficiency:	90%
Response/Correction Time:	Return to regulation envelope within 30 msec.
Dynamic Response:	Continuous & smooth correction for input voltage fluctuations
Overloads:	200% of rated load for 10 seconds without damage. 500% of rated load for 10 msec.
Warranty:	5 years

Description	
Electrical Noise Attenuation	
Transverse Mode:	60 dB typical, (80 dB max.), 4kHz to 20 MHz
Common Mode:	120 dB typical, (140 dB max.) 2kHz to 1 MHz
Output Harmonic Distortion:	Less than 3% THD on linear loads. No greater than 5% on typical computer loads
Environmental	
Operating Ambient:	-20°C to +50°C
Relative Humidity:	0 to 95% non-condensing
Ventilation:	Natural Convection Cooled
Status Indication	
Power On:	Amber lamp
Overload Protection:	Output short circuit protection
Warranty:	5 years

Rated output VA	Current AMPS (Cont.)	Output receptacles	Weight (kg)	Enclosure size ①	Item no.
500	2.08	2	23	3	2102665000
1000	4.16	3	36	4	2102671000
2000	8.33	3	55	4	2102672000
2500	10.41	3	66	4	2102672500 ②

240 Volt Hardwired options available to order. Special voltage configurations available to order. Specific input leads & output sockets can be fitted to order.

① Enclosure sizes (mm) Size 3: 195 (H) x 210 (W) x 328 (D), Size 4: 252 (H) x 280 (W) x 421 (D).

② Input lead fitted with 15 Amp plug top (all other units fitted with 10 Amp plug tops).



Power conditioners

3kVA to 22kVA power conditioners

The extension of Sola ferroresonant power conditioners continues through to 22kVA. These units are mostly suited to hardwired, fixed installation applications for providing smooth stepless control of the output voltage, attenuation of harmful impulses or surges & other power line disturbances. Sola 200 power conditioners are ideally suited to provide protection in computer rooms, regulation for scientific instrumentation, plus protection & regulated power to sophisticated computer based factory process equipment. To simplify installation, all units are free standing & fitted with castors (excluding 22kVA) & jacking feet. Connections are provided at the rear via a base plate cable entry to an isolation switch.

The flexibility of Sola 200 power conditioners is increased on units between 7.5kVA & 18kVA. These units can be field configured for single phase or three phase operation with 230 Volt taps provided as standard on 240 Volt In/Out models. Sola 200 power conditioners (3 to 22kVA) incorporate approved surge withstand capabilities, as required by ANSI/IEEE C62.41- 1980.

Technical specifications

	Description
Input	
Voltage:	220 or 240 Volt AC ① (Refer Ordering Details" for configuration options)
Frequency:	50 Hz
Input Voltage Range:	+ 10%, -20% (±40%)
Protection:	ANSI/IEEE C62.41-1980 A & B waveforms suppressed to safe levels.
Output	
Nominal Voltage:	220 or 240 Volt AC
Frequency:	50 Hz
Voltage Regulation:	±3% for +10%, -20% input. +5%, -8% for ±40% input.
Control:	AC on/off switch
Power	
Efficiency:	90%
Response/Correction Time:	Return to regulation envelope within 30 msec.
Dynamic Response:	Continuous & smooth correction for input voltage fluctuations.
Overloads	200% of rated load for 10 seconds without damage. 500% of rated load for 10 msec.

① For units with nominal input/output voltage of 220 specify -44-, as in 200-44-730.

Description	
Electrical Noise Attenuation	
Transverse Mode:	60 dB typical, (80 dB max.), 4kHz to 20 MHz
Common Mode:	120 dB typical, (140 dB max.), 2kHz to 1 MHz
Output Harmonic Distortion	
	Less than 3% THD on linear loads. No greater than 5% on typical computer loads.
Environmental	
Operating Ambient:	-20°C to +50°C
Relative Humidity:	0 to 95% non-condensing
Ventilation:	Natural Convection Cooled
Status Indication	
Power On:	Amber lamp
Overload Protection	Output short circuit protection
Warranty	5 years

Rated output kVA	Configuration	Weight (kg)	Enclosure size ④	Item no.
3	1 Phase only	100	1	20026730
3	1 Phase only	100	1	2002673000 ①
5	1 Phase only	155	2	20026750
5	1 Phase only	155	2	20026750HO ②
7.5	1 or 3 Phase	215	2	20026775 ③
9	1 or 3 Phase	270	2	20026790 ③
12	1 or 3 Phase	360	3	20026812M ③
15	1 or 3 Phase	420	3	20026815 ③
18	1 or 3 Phase	520	3	20026818 ③
22.5	3 Phase only	595	4	20046822 ③

To avoid nuisance tripping of input circuit breakers, we recommend the use of 'D' curve or motor start type circuit breakers. Current rating should be at least one size larger than input current stated on unit data plate.

See manual or consult your Sales Representative for further details.

① Units fitted with WIP 15 plug & 4 x 10/15 Amp screw sockets.

② Units fitted with input terminal block & 4 x 10/15 amp screw sockets.

③ 3 Phase loads to be star connected only. Power Conditioners NOT to be used for Delta loads.

④ Enclosure Sizes (mm): Size 1: 600 (H) x 400 (W) x 440 (D)

Size 2: 995 (H) x 525 (W) x 550 (D)

Size 3: 990 (H) x 800 (W) x 550 (D)

Size 4: 1236 (H) x 800 (W) x 550 (D)



Power conditioners

Multi-voltage, hardwired power conditioners for industrial applications

Frequently, power transformers are incorporated with process equipment to provide specific voltages for sensitive equipment. Unfortunately, outside interferences will vary the output from these transformers, causing the sensitive equipment to malfunction or fail. The Sola 26 range of power conditioners provide an immediate answer to this inconvenience, by suppressing & isolating power line interference & regulating the output voltage to $\pm 5\%$. These hardwired power conditioners provide the unique feature of selectable input tap for greater versatility & output voltage taps are also provided. These features make the Sola 26 power conditioner the ideal choice for a regulated power supply where a three phase source is provided without a neutral line.

The Sola 26 power conditioner provides superior noise rejection, exceeding 120 dB common mode & 60 dB transverse mode noise rejection. By nature of design, this product is a true, ultra isolation device. The Sola 26 is available from 120VA through to 15kVA as a panel mounting, hardwired unit.

Technical specifications

Description		Description	
Input		Efficiency	85% at full load.
Voltage:	500-5000VA models: Field selectable 110/120V or 220/240 or 380/415V 7.5-15kVA Models: Field selectable 220/240V or 380/415V	Dropout	No loss of output for line loss of 30 msec.
Frequency:	50 Hz (60Hz available)	Electrical Noise Rejection	Transverse Mode: > 60 dB Common Mode: > 120 dB
Output		Operating Temperature	-20°C to +50°C
Voltage:	Field Selectable - 110/120/220/240 Volts AC	Warranty	5 years
Voltage Regulation:	$\pm 5\%$ for an input line variation of $\pm 15\%$. + 5%, -8% for $\pm 40\%$ input.		
Output Harmonic Distortion	Less than 3% THD on linear loads. No greater than 5% on typical computer loads.		

Rated output VA	Height (mm)	Width (mm)	Length (mm)	Weight (kg)	Item no.
500	162	200	362	18	26050500M
1000	170	200	460	28	26051000M
2000	244	288	467	51	26052000M
3000	244	288	501	73	26053000M
5000	244	288	736	110	26055000M
10000 ①	244	630	736	221	260510kM
15000 ①	244	987	736	350	260515kM

① Multi-Module Units.

DC product range

Access power solutions

- 24V up to 18,000W, 48V up to 36,000W

Features:

- 19" 3U or 6U Sub-rack
- Pre-Configured Software
- High Power Density
- Optional Remote
- Compliance with International Standards

Typical applications

- Data Networks & IP Routers
- Customer Premises Equipment
- Local Loop Transmissions Systems
- Wireless
- Transmission Terminals



Network power solutions (24V up to 38.4kW, 48V up to 72kW)

Features:

- Flexible Modular Designs
- Pre-Configured Supervisory Module
- Fast On-Line Replacement of Rectifiers (Hot-Swap)
- High Efficiency & Unity Power Factor
- Downloadable Configuration Files
- Designed to Maximise Battery Performance
- Wide AC Input Voltage Tolerance
- Optional Parallel System Connection Kit
- Compliance with International Standards

Typical applications

- Data/Customer Premises Equipment
- Wireless/Cellular/CDMA
- Central Office



Large power solutions (24V up to 202kW, 48V up to 378kW)

Features:

- 45U Cabinet
- Pre-Configured Software
- High Power Density
- Fast On-Line Replacement of Rectifiers (Hot-Swap)
- High Efficiency & Unity Power Factor
- Surge Protection
- Parallel Systems Option up to 15,000A
- Compliance with International Standards

Typical applications

- Wireless
- Transmission Terminals
- Local & Central Office Switching



Ancillary products

Power quality



Industrial batteries DC power systems

Valve regulated sealed lead acid batteries

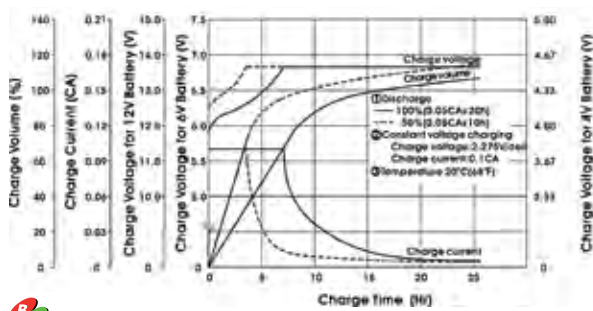
Features:

- Completely maintenance free, sealed construction eliminating the need for watering
- Fully tank formed plates
- Analytical grade electrolyte
- Spill & Leak proof
- Valve regulated - Max. Internal Pressure 2.5psi
- Multi-position usage
- Low self discharge
- ISO9001: 2000, ISO14001: 1996, CE, UL & SSL approved
- Non hazardous material

B.B. Battery produces highly specialised batteries utilizing the most recent high tech equipment & manufacturing methods from the US & Japan. B.B.'s battery factory is ISO 9001:2000 & ISO 14001 certified.

B.B.'s battery business goals closely follow the trend of a globally integrated economy & actualise the precise plans of developing high tech, high efficiency & quality products. Company goals are to provide high quality products & exceptional service at competitive prices to customers.

Battery charging characteristics



B.B. BATTERY

Technical specifications

	Description
Nominal Voltage:	6 & 12 Volts
Design Life:	6+ years @ 20 Degrees Celcius
Operating Temperature:	-20 to 50 Degrees Celcius
Grid Alloy:	Calcium / Tin Lead alloy
Plates:	Flat Pasted
Separator:	Absorbent Glass Mat
Active Material:	Very high purity lead 99.9999%
Case & Cover:	ABS (VO)
Charge Voltage:	Float 2.27 - 2.30VPC @ 20 Degrees
Electrolyte:	Sulphuric acid, analytical grade purity
Venting Valve:	1.5 to 2 psi release

Voltage	Capacity (20hr)	Dimensions			Weight (l)	Item no.
		Length (mm)	Width (mm)	Height (mm)		
6V	5.Ah	70	48	102	0.95	50BP56
6V	10.Ah	151	50	94	2.00	50BP106
6V	12.Ah	151	50	94	2.05	50BP126
12V	1.2Ah	97	45	53	0.59	50BP1.212
12V	2.3Ah	178	34	60	0.94	50BP2.312
12V	4.5Ah	90	70	102	1.84	50BP4.512
12V	7.5Ah	151	65	94	2.65	50BP7.512
12V	12.Ah	151	98	94	4.03	50BP1212
12V	17.Ah	181	76	166	6.15	50BP1712
12V	20.Ah	181	76	166	6.35	50BP2012
12V	26.Ah	175	166	125	9.40	50BP2612
12V	40.Ah	197	165	171	14.30	50BP4012
12V	65.Ah	350	166	174	24.50	50BP6512
12V	90.Ah	329	172	215	33.50	50BP9012
12V	120.Ah	407	173	210	39.50	50BP12012
12V	160.Ah	483	171	240	51.20	50BP16012
12V	230.Ah	522	240	216	72.30	50BP23012

UPS single phase

Our story

Comprised of legacy brands including Powerware®, MGE Office Protection Systems, Best Power, Pulizzi & Aphel, Eaton's power quality business is a global leader in power management products & services. Eaton has many products that provide customer-driven PowerChain Management solutions to serve the power system needs of the industrial, institutional, government, utility, commercial, residential, IT, mission-critical & OEM markets worldwide.

Our portfolio

Eaton's power quality portfolio encompasses a comprehensive offering of power management solutions from a single-source provider. This includes UPSs, power distribution units (PDUs), remote monitoring, software, connectivity, enclosures & services. Our power quality portfolio was designed to fulfill specific customer requirements, complement a new or pre-existing solution & to deliver a comprehensive solution. With all our products, Eaton strives for continued success in leveraging technical innovation to develop next-generation solutions.

Single phase UPS

With over 60 years experience in the Australian market, Eaton offers a range of single phase UPS products designed to suit local conditions & applications. Evolving from brands such as Powerware, Sola, Exide, Deltec & MGE Office Protection Systems, Eaton's range contains features such as Australian outlets, telephone line surge suppression & included accessories to ensure easy integration to any system.



Introducing the E-Series

Eaton's E-Series value UPS products offer cost effective, reliable power protection, ranging from 650VA to 20kVA. The new E Series uninterruptible power system (UPS) is Eaton's newest product line introduction featuring both line interactive & double-conversion technology UPSs. Ideal for the home office, small Point of Sale (POS) & desktop computing environment, the 5E UPS provides reliable power protection for personal computers & peripherals. Unique features including cold start on battery power allows this UPS to offer portable power where users need it most.



5E UPS, 1 phase

Power Rating: 650, 850, 1100, 1500, 2000 VA tower models
Voltage: 170 to 280Vac
Frequency: 50/60 Hz (auto-sensing)
Technology: Line Interactive with Automatic Voltage Regulation

The 5E range is designed to meet even the most cost-conscious customer's needs while providing a reliable & easy-to-set-up solution. The 5E line interactive uninterruptible power system (UPS) provides affordable power protection for your personal computers, home, office & other electronic devices. While packed with valuable features such as plentiful power receptacles & USB communications, the compact size is ideal for limited office & home working spaces.

Features

- Automatic Voltage Regulation (AVR) stabilises fluctuating power sources
- Microprocessor control design ensures high reliability
- Australian outlets, allowing easy equipment connection
- Start-on-battery provides portable power capability
- UPS Companion software monitors power conditions & gracefully shuts down computer applications prior to battery depletion



Description	Item no.
5E 650VA / 360W, 2 x Aust sockets	5E650IUSB-AU
5E 850VA / 480W, 2 x Aust sockets	5E850IUSB-AU
5E 1100VA / 660W, 3 x Aust sockets	5E1100IUSB-AU
5E 1500VA / 900W, 3 x Aust sockets	5E1500IUSB-AU
5E 2000VA / 1200W, 3 x Aust sockets	5E2000IUSB-AU

Ancillary products

Power quality

E Series DX UPS, 1 phase

Power Rating: 1KVA-3KVA
 Voltage: 80 to 300 VAC
 Frequency: 50/60 Hz (auto-sensing)
 Technology: High-frequency double-conversion



The E Series DX UPS delivers affordable mission critical reliability for a wide range of applications including small grade medical equipment, the network closet or small data center. Whether your environment requires Automatic Voltage Regulation (AVR) to stabilise fluctuating power sources or you need the flexibility to purchase the UPS separate from the battery – the E Series UPS product line offers a variety of alternatives.

The E Series® DX UPS double-conversion UPS affordably protects mission critical applications from downtime, data loss & corruption. The double-conversion architecture incorporates rectifier & inverter stages to completely isolate the output power from all input anomalies. By adapting to a wide range of input voltages, the E Series DX avoids battery usage during minor power fluctuations, saving its capacity for times when utility power is completely lost.

Features

- Double conversion topology assures maximum reliability
- Wide input-voltage range appropriate for the harshest electrical environments
- Standard Models for fixed run time performance
- Tested for generator compatibility
- Automatic bypass for fault-tolerance
- Optional SNMP communications provides remote network- based monitoring
- XL Models for customised, long run-time applications, with fast recharging
- Cold start on battery power allows portable power
- WINPOWER software monitors power conditions
- Intuitive front-panel user interface for consistent status indication

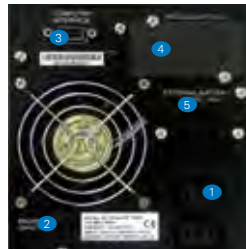
E series DX

E Series DX 1000



DX 1000 VA FRONT

1. Output receptacles
2. AC Input
3. Standard RS232 Communication Port



DX 1000 VA REAR

4. Optional SNMP Communication Port
5. Extended Battery Connector (XL models only)

Description	Item no.
E-Series DX 1kVA/700W, 4 x IEC sockets	EDX1000HA
E-Series DX 2kVA/1400W, 6 x IEC sockets	EDX2000HA
E-Series DX 3kVA/2.1kW, 4 x IEC sockets plus hard wired output	EDX3000HA

9E UPS, 1 phase

Power Rating: 6KVA-20KVA
 Voltage: 176 to 276 VAC
 Frequency: 50/60 Hz (auto-sensing)
 Technology: High-frequency double-conversion



Advanced protection for:

- Infrastructure
- Industrial and Medical IT
- Networking
- Storage
- Telecom

The Eaton 9E constantly monitors power conditions and regulates voltage and frequency due to the online double conversion topology. Make your installation more flexible with a combo input (3:1 and 1:1) on the 10kVA, 15kVA, and 20kVA models. An internal bypass allows service continuity in case of an internal fault. A maintenance bypass is also available as standard for easy maintenance of the UPS without powering down critical systems.

The 9E provides clear information on the UPS' status and measurements (load level, battery level, input/output voltage and frequency) on a single screen with the new LCD interface, easily communicate with the UPS through USB, RS232 serial or over the network with the optional network card (Network-MS). Relay cards or ModBus cards are also available. Integrate 9E into all software environments. The Eaton 9E is delivered with Eaton's Intelligent Power™ Software and is compatible with all major operating systems.

Extend runtime as you like by adding up to 4 external battery modules (EBM). For extra-long runtime, XL models with internal supercharger are also available at 10kVA and 20kVA




Description	Backup time qt 75%/50% load	Dimensions W x D x H (mm), kg	Item no.
6kVA/4.8kW On Line Tower UPS	12/20	263 x 613 x 709, 68kg	9E6KI
10kVA/8kW On Line Tower UPS	9/15	263 x 613 x 709, 85kg	9E10KI
15kVA/12kW On Line Tower UPS	9/16	350 x 706 x 816, 145kg	9E15KI
20kVA/16kW On Line Tower UPS	9/15	350 x 706 x 816, 160kg	9E20KI

Premier series UPS's

Premier series UPS, available from 550VA to 1100kVA, offer technology leading power quality solutions for your critical applications. With features such as Advanced Battery Management, HotSync wireless paralleling technology & high efficiency ratings, Eaton's Powerware Series offer high performance power protection with a lower cost of ownership.

UPS Solution Overview






Series 3, Continuous power

Power Failure Power Sag Power Surge

The Series 3 UPS primarily protects against three of the nine power problems including power failures, power sags & power surges. This essential, cost-effective protection is necessary in order to prevent damage such as data loss, file corruption, hardware damage & equipment shutoff.










Series 5, Keeping it smooth

Power Failure Power Sag Power Surge Under-voltage Over-voltage

Series 5 UPS are most effective against five power problems (power failures, power sags, power surges, under-voltage & over-voltage) & offer a degree of protection against other power problems.

Series 9, Total protection

Power Failure Power Sag Power Surge Under-voltage Over-voltage Line Noise Frequency Variation Switching Transient Harmonic Distortion

Series 9 UPSs protect against all nine power problems: power failures, power sags, power surges, under-voltage, over-voltage, line noise, frequency variation, switching transients & harmonic distortion.

Series 3 single phase input/output UPS

Eaton 3S
Technology: Series 3 (standby)
Rating: 550-700 VA
Backup time: Typical 5 min
Model: Cabinet

Designed to offer cost effective basic power protection for single PCs & workstations, Eaton 3S protects your equipment against three of the nine most common power problems. 3S's sleek design is perfect for placement on or under a desk as well as for wall mounted use. Its typical back-up time of 5 minutes is more than enough to save your work & if you wish, you can install Eaton's shutdown software which will automatically save & shutdown your applications during longer power outages. The 700VA model saves up to 30% energy through its EcoControl function which automatically disables peripherals when the master device, such as a computer, is turned off.



Description	Backup time full/half load	Dimensions W x D x H (mm), kg	Item no.
550VA / 330W Standby Powerboard UPS	6 / 10	140 x 335 x 86, 5kg	3S550AU
700VA / 420W Standby Powerboard UPS	6 / 9	280 x 115 x 86, 6.5kg	3S700AU

Series 5 single phase input/output UPS

Technology: Series 5 (line interactive)
Rating: 550-1600 VA
Voltage: 220-240 Vac
Backup time: Typical 5 min
Models: Cabinet

The Eaton 5S UPS provides effective power protection, even in disturbed electrical environments. Voltage fluctuations are automatically corrected using an AVR device (booster/fader), without needing the batteries. The 5S not only provides a supply with battery backup to keep equipment operating during power cuts, but also provides effective protection against damaging surges.

The 5S protects networked equipment from back door power surges coming through Ethernet, internet or telephone lines. The 5S periodic automatic battery testing ensures early detection if a battery needs to be replaced. The easy-to-replace battery helps to extend the UPS service life. The 850-1600VA models feature an LCD display.



Description	Backup time 70%/50% load	Dimensions W x D x H (mm), kg	Item no.
550VA / 330W Line Interactive UPS	6 / 0	87 x 260 x 250, 5kg	5S550AU
700VA / 420W Line Interactive UPS	5 / 9	87 x 260 x 250, 6kg	5S700AU
850VA / 510W Line Interactive UPS	5 / 9	87 x 260 x 250, 6.5kg	5S850AU
1200VA / 750W Line Interactive UPS	5 / 9	87 x 260 x 362, 9.5kg	5S1200AU
1600VA/1000W Line Interactive UPS	5 / 9	87 x 260 x 382, 11kg	5S1600AU



Series 5 single phase input/output UPS

Eaton 5SC

Technology: Series 5 (Line Interactive)

Rating: 500VA – 1500VA

Model: Tower

Designed to offer advanced power protection for office servers & other critical applications, the Eaton 5SC protects your equipment against five of the nine most common power problems that can harm your equipment or result in corrupted data.

In offices a crucial part of the work is stored on servers & reliable shutdown software is needed to ensure that no data is lost even during longer power outages. With Eaton 5SC & IPM software protecting the server, business goes on while the UPS invisibly & automatically takes care that no data is lost due to power problems. If a total outage threatens to exceed the system's backup time, the software automatically shuts down the entire network in a predefined order.

Description	Backup time full load	Dimensions W x D x H (mm), kg	Item no.
500VA/350W Line Interactive Sine Wave	5	150 x 240 x 210, 6.6kg	5SC500i
750VA/525W Line Interactive Sine Wave	5	150 x 340 x 185, 10.4kg	5SC750i
1000VA/670W Line Interactive Sine Wave	5	150 x 340 x 185, 11.1kg	5SC1000i
1500VA/1050W Line Interactive Sine Wave	5	150 x 410 x 185, 15.2kg	5SC1500i



Eaton 5130

Technology: Series 5 (Line Interactive)

Rating: 1250VA – 3000VA

Model: Rack/Tower

Designed to ensure clean power & reliable operation of all kinds of IT devices in the network system, Eaton 5130 protects your equipment against five of the nine most common power problems that can harm your equipment or result in corrupted data.

The Eaton 5130 offers the features needed for cost effective network protection & comes with the proven reliability users have come to expect from Eaton products. In addition to a reliable shutdown solution, Eaton 5130 offers extended runtime capability as well as enhanced connectivity options to manage & monitor the UPS remotely.

Description	Backup time full/half load	Dimensions W x D x H (mm), kg	Item no.
1250VA / 1150W Line Interactive UPS	5 / 5	441 x 509 x 87, 25kg	PW5130I1250-XL2U
1750VA / 1600W Line Interactive UPS	3.5 / 9.5	441 x 509 x 87, 27kg	PW5130I1750-XL2U
2500VA / 2250W Line Interactive UPS	3 / 11	441 x 634 x 87, 34kg	PW5130I2500-XL2U AU
3000VA / 2700W Line Interactive UPS	3 / 10	441 x 634 x 87, 34kg	PW5130I3000-XL2U AU
1250/1750VA extended battery module	-	441 x 509 x 87, 31kg	PW5130N1750-EBM2U
2500/3000VA extended battery module	-	441 x 634 x 87, 42kg	PW5130N3000-EBM2U

Note: Input cord & comms. cable supplied.

Series 9 single phase input/output UPS

Eaton 9130 Tower

Technology: Series 9 (Online, Double Conversion)

Rating: 700VA – 6000VA

Model: Tower

The Eaton 9130 UPS, resolves utility power problems & delivers superior power protection for IT & networking equipment, medical systems, manufacturing process control or anywhere critical equipment & applications require clean, continuous power.

The Eaton 9130 is constantly monitoring power conditions regulating both voltage & frequency. Even when presented with the most severe power problems, this UPS's output remains within three percent of nominal voltage.

With a wide input voltage range, the Eaton 9130 does not depend on batteries to smooth out minor power fluctuations. Batteries are conserved for those times when utility power is highly unstable or completely out. If an outage occurs, the Eaton 9130 runs from the battery with zero interruption in power, making this an ideal UPS for sensitive & critical equipment.



Description	Backup time full/half load	Dimensions W x D x H (mm), kg	Item no.
Eaton 9130 700VA/630W On Line Tower UPS	6 / 11	160 x 355 x 250, 12.2 kg	PW9130G700T-XLAU
Eaton 9130 1000VA/900W On Line Tower UPS	7 / 14	160 x 383 x 250, 14.5 kg	PW9130G1000T-XLAU
Eaton 9130 1500VA/1350W On Line Tower UPS	5 / 14	160 x 435 x 250, 19.0 kg	PW9130G1500T-XLAU
Eaton 9130 2000VA/1800W On Line Tower UPS	10 / 24	214 x 410 x 345, 34.5 kg	PW9130G2000T-XLAU
Eaton 9130 3000VA/2700W On Line Tower UPS	5 / 14	214 x 410 x 345, 34.5 kg	PW9130G3000T-XLAU
Eaton 9130 6000VA/5400W On Line Tower UPS	8 / 23	280 x 580 x 570, 91 kg	PW9130G6000T-XLAU

Note: Input cord & comms. cable supplied.

Description	Dimensions W x D x H (mm), kg	Item no.
700-2000VA Softwired interlocked external bypass	210 x 100 x 130, 4kg	MBS2000SW1
3000VA Softwired interlocked external bypass	210 x 100 x 225, 5kg	MBS3000SW1
1-6kVA Hardwired interlocked external bypass (max 6mm ² cable)	190 x 130 x 190, 10kg	6000MBS1
6kVA Hardwired interlocked external bypass w/sep byp input (max 6mm ²)	190 x 130 x 190, 10kg	6000MBS2
Wraparound MBS, 1/1ph, w/o Sep Byp Input, 40A, 16mm ² , Bottom Entry	275 x 138* x 487**, 10kg Size 1	MBS11NSB40BW
Wraparound MBS, 1/1ph, Sep Byp Input, 40A, 16mm ² , Bottom Entry	275 x 138* x 487**, 10kg Size 1	MBS11SB40BW

Add \$200 if key interlock is required instead of pushbutton interlock. Add KL suffix to part no.

*Depth does not include switch handle. **Height does not include mounting flanges.

Series 9 single phase input/output UPS

Hard wiring kits (9130 tower only)

Description	Item no.
Hard wired field conversion Kit for 9130 700-1500VA	PW91301500HW-Kit
Hard wired field conversion Kit for 9130 2000VA	PW91302000HW-Kit
Hard wired field conversion Kit for 9130 3000VA	PW91303000HW-Kit

Extended battery modules,

Standard matching cabinets

Description	Dimensions W x D x H (mm), kg	Item no.
9130 Tower Extended Battery Module, 1000VA	155 x 410 x 245, 20 kg	PW9130N1000T-EBM
9130 Tower Extended Battery Module, 1500VA	170 x 445 x 275, 25 kg	PW9130N1500T-EBM
9130 Tower Extended Battery Module, 2/3kVA	215 x 470 x 365, 50 kg	PW9130N3000T-EBM
9130 Tower Extended Battery Module, 6000VA	280 x 580 x 570, 75 kg	PW9130N6000T-EBM

Note: Long run time extended cabinets available on request.



Eaton 9130 rack mount

Technology: Series 9 (Online, Double Conversion)

Rating: 1000VA – 3000VA

Model: Rack Mount

The Eaton 9130 UPS, resolves utility power problems & delivers superior power protection for IT and networking equipment, medical systems, manufacturing process control— or anywhere critical equipment and applications require clean, continuous power.

The Eaton 9130 is constantly monitoring power conditions—regulating both voltage & frequency. Even when presented with the most severe power problems, this UPS's output remains within three percent of nominal voltage.

With a wide input voltage range, the Eaton 9130 does not depend on batteries to smooth out minor power fluctuations. Batteries are conserved for those times when utility power is highly unstable or completely out. If an outage occurs, the Eaton 9130 runs from the battery with zero interruption in power, making this an ideal UPS for sensitive & critical equipment.

9130 rack mount on line UPS

Description	Backup Time full/half load	Dimensions W x D x H (mm), kg	Item no.
9130 1000VA / 900W On Line Rack UPS	7 / 14	438 x 438 x 86.5, 16.0kg	PW9130G1000R-XL2UAU
9130 1500VA / 1350W On Line Rack UPS	5 / 14	438 x 438 x 86.5, 19.5kg	PW9130G1500R-XL2UAU
9130 2000VA / 1800W On Line Rack UPS	6 / 16	438 x 600 x 86.5, 29.0kg	PW9130G2000R-XL2UAU
9130 3000VA / 2700W On Line Rack UPS	3 / 9	438 x 600 x 86.5, 29.5kg	PW9130G3000R-XL2UAU

Note: Input cord is not included on 9125 1&2kVA models & must be ordered separately if required.

Extended battery modules

Description	Dimensions W x D x H (mm), kg	Item no.
9130 1000VA Rack Extended Battery Module	438 x 438 x 86.5, 22.1kg	PW9130N1000R-EBM2U
9130 1500VA Rack Extended Battery Module	438 x 438 x 86.5, 28.1kg	PW9130N1500R-EBM2U
9130 2000/3000VA Rack Extended Battery Module	438 x 600 x 86.5, 41.0kg	PW9130N3000R-EBM2U

Maintenance bypass switches

Description	Dimensions W x D x H (mm), kg	Item no.
HotSwap Maintenance Bypass, 16A, Aust 3 pin outlets	483 x 80 x 44, 3kg	M68443
HotSwap Maintenance Bypass, 16A, IEC outlets	483 x 80 x 44, 3kg	M68433
HotSwap Maintenance Bypass, 16A, Hardwired	483 x 80 x 44, 3kg	M68434

3 phase

Eaton has been developing its innovative technical solutions in the power protection field since receiving its first patent in 1962. As a technology leader Eaton meets the customers' fast growing needs with advanced patented technologies.

Eaton's three-phase UPS products are based on the same technical platform, including a similar internal topology, common control hardware & algorithms, standardised communications capabilities & a common user-interface.

The benefits of a single platform include:

- UPS units behave in a uniform way and carry similar features
- Product upgrades are easier as the process is identical
- Improved service capabilities due to usage of common spare parts & accessories across product families and standard service tools
- Similarity of service training & documentation guarantee that customers in all countries receive the same high level of service
- Lower total cost of ownership Single platform benefits



Transformer-free technology

The transformer-free technology used in Eaton UPSs with small & lightweight filter inductors, high performance IGBTs in both inverter & rectifier & advanced control algorithms brings improved performance & value. Compared to legacy UPS topology designs, a transformer-free UPS is typically only 50% the weight & occupies just 60% the footprint. Low input THD (<3% at full load) & high input power factor (>0.99) are supported down to nearly 10% load without the need for an additional input filter. In addition, full load efficiency can reach 96.57% & above.

Eaton Hot Sync® technology

Hot Sync technology is designed for parallel redundant N+1 systems to satisfy 24/7 applications. It can also be used in parallel capacity systems to benefit from scalability for customers' ever-increasing load demands.

Hot Sync eliminates single point of failure, with the ability to synchronise & support critical loads independently of other UPS modules in the system. UPS modules can share loads without any communication wiring to the outside world.



ABM® technology

Eaton has created ABM® Technology to extend the life of valve regulated lead-acid batteries by applying sophisticated logic to the charging regime. Using traditional trickle charge method, batteries become subject to electrode corrosion & electrolyte dry-out, especially in standby service use due to continuous float charging. ABM is essentially an addition of intelligence to the charging routine by preventing charging when it is not necessary, thus significantly retarding wear-out. ABM provides an additional feature for monitoring battery condition & advance warning about the end of battery life upon detection of a weak battery. Also, it optimises the recharge time, which is advantageous when there may be consecutive power outages within a short period. ABM has been used for over fifteen years in our UPSs ranging from 1 to 1100 kVA.

Highest efficiency ratings

To demonstrate the importance of total system efficiency in relation to load level, the UPS efficiencies graph shows how efficiency generally dips as load level decreases. In general, manufacturers list an optimal efficiency rating at full load. In reality, however, most three-phase UPSs operate well below full load. As a result, it is extremely important to evaluate the efficiency of a UPS at lighter loads as this graph depicts. Eaton data center & facility products operate efficiently even at lighter loads to reduce utility costs. Additionally, Eaton three phase UPSs with Energy Saver Mode operate at 99% efficiency saving thousands of dollars in energy costs while maintaining double conversion protection.



PowerChain™ Management keeps your data centre open for business

-  Greater reliability: Maintain vital operations with steady, high-quality power every minute of every day.
-  Operating cost efficiencies: Reduce operating costs with efficient energy management & maintenance strategies.
-  Effective use of capital: Put your capital to work faster, & keep it working longer, with electrical designs that require less equipment & space, services that extend equipment life & preassembled equipment that can be installed faster.
-  Risk mitigation: Reduce the risk of construction delays & cost overruns with a coordinated approach to power system design, procurement, installation & maintenance.
-  Enhanced safety: Reduce electrical hazards with safety-conscious design & installation, plus products & information that help people recognize & avoid dangers.

Software & connectivity

In order to get full benefit out of a UPS it needs to communicate with the outside world. Eaton UPSs have intelligent digital control with comprehensive fault detection & self test capability built into the internal microprocessor system of the device.

Power Xpert software

Eaton's Power Xpert® Architecture is the backbone of Eaton's PowerChain Management. Power Xpert Architecture can transform your power system into an integrated, agile system that you can monitor, control & manage effectively & efficiently.

Power Xpert Software enables you to manage the complexities of large system deployments, from one desktop, on one screen. Web-enabled hardware devices are fine in limited numbers. However, as the number of components grows or becomes more complex, Power Xpert Software is the logical choice for the trending, analysis & alarming systems that are required.

The Power Xpert Software is Web-enabled, open & time synchronised. Using only a browser, you can access the software from anywhere your network can reach, including remotely. Designed to communicate graphically with the broad range of Eaton & non - Eaton devices, Power Xpert Software uses industry standard protocols. The software is offered in the Server Core Class & the Foreseer Class.



Data centre & facility UPS overview

With a rich history of technical innovation & proven performance, the data center & facility UPS products continue to personify Eaton's pioneering spirit in the power quality industry. Whether you are designing or procuring a UPS, each model can be deployed around the world. Designed to meet global requirements, the same UPS can be installed anywhere—from Argentina to Russia, China to South Africa or the United States.

The following features differentiate Eaton's data center & facility UPS solutions:

Leading sustainability

- Highest efficiency ratings lower utility costs
- Lowest total cost of ownership & lifecycle carbon footprint
- Smallest footprint & weight

- Lowest transportation & installation costs
- Stronger power performance
- Lowest input total harmonic distortion (THD) enhances compatibility with upstream power systems
- Lowest output THD
- Optimum generator sizing
- PFC power supply compatibility
- Highest reliability & availability
- Hot Sync wireless paralleling
- Easy Capacity test
- Superior battery management
- Inherent redundancy
- Scalable architecture that adapts to increasing power requirements

Robust manageability

- Superior control & connectivity

Eaton ePDUs

Eaton offers the largest selection of enclosure power distribution units available on the market. This complete suite of power products is designed specifically to help data center IT managers meet their rapidly escalating power requirements.

ePDUs come in five levels of functionality with 24 to 45 receptacles & can distribute power levels in excess of 23 kW.

ePDU functionality

Basic - Economical power distribution to up to 24 receptacles in a rack or wiring closet

Metered - Distribution with power monitoring on any receptacle, branch circuit or the entire unit

Monitored - Power distribution with secure, remote monitoring & alerts over IP networks

Switched - Provides secure, network receptacle-level control & network monitoring, optional integrated environmental & inter-networking capabilities

Managed - Local & remote monitoring, plus advanced Revelation technology that provides receptacle-level monitoring & remote server boot-up or electronically lock designated receptacles to prevent unauthorized use

eATS - The enclosure automatic transfer switch (eATS) provides in-rack power distribution with redundant power sourcing for single-corded loads





Power through high energy costs.

Eaton leads the
UPS industry in
power efficiency.



Competitive UPSs can't deliver the efficiency inherent in Eaton's broad range of power protection solutions. That's because Eaton® offers industry-leading technologies such as Energy Saver System to deliver 99% efficiency across all load ranges. Plus, with the most efficient UPSs on the market, your customers can slash energy costs through reduced power consumption and heat output. Eaton's superior UPS technology enables your customers to carry on efficiently — uninterrupted.

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