

Fastron

Electronics

Brochure v1.1



Company Profile

Fastron Electronics is a privately owned company based in Melbourne, Australia specialising in the Manufacturing and supply of Components, Products and Solutions to the Energy Monitoring, Power Electronics, Power Quality, Process Control, E-Mobility, and Electrical Instrumentation markets.

We Are:

Manufacturers, importers, design/development and consulting engineers in electrical, electronic and systems solution disciplines.

Fastron's expertise reflects up to 40 years experience in:

- Power Control, Process Control & Automation
- Switchgear (LV,MV,HV)
- Power Electronics Components & Assemblies
- Heatsink and Cooling
- Energy Management
- Electrical Measurement & Test
- Electrical Protection
- Power Quality
- E-Mobility

Our Mission:

- To select the most suitable components, products or engineered solutions to meet and potentially exceed our customers requirements in an unbiased and professional manner.
- To be actively involved in improving the reliability and energy efficiency of power conversion equipment, temperature and electric heating controls.
- To promote Energy Monitoring and Management solutions as the means to benchmark, measure and reduce energy waste, reduce costs and CO2 emissions.



Temperature/Humidity Controllers

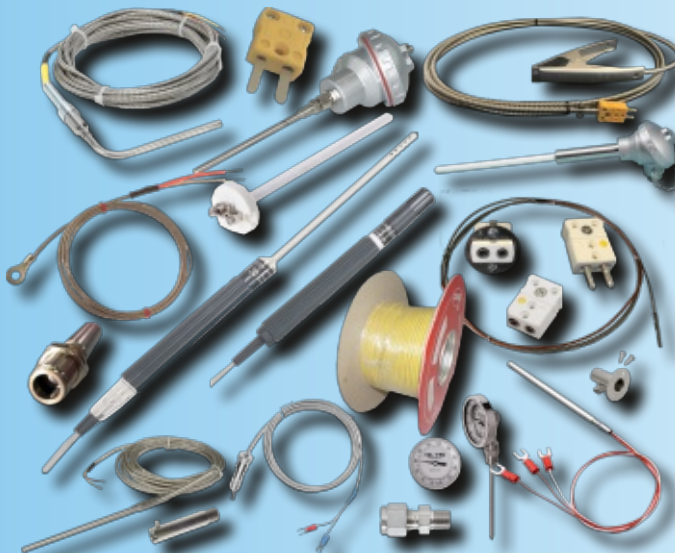


Panel Mount - 48x48mm, 96x48mm, 48x96mm, 72x72mm, 96x96mm
Din Rail Mount - 22.5 x 75mm Dual Input/Dual Output options, 5 Amp Relay Alarm Output
Dual Input and Dual Output versions
Step Control - Included as standard
Pattern/Kiln Controllers - Up to 10 Steps, 10 Patterns
HVAC/Brewery/Servo/Valve - Low Cost PID and SCR Controllers with integrated PID loop



CE and UL

Industrial Temperature & Humidity Sensors



MIMS Resistance Temperature Detector (RTD) - Standard ranges in stock 3/5mm
MIMS Thermocouples - Type K, Type R, Type S 3/5/6mm
EGT Sensors - Inconel 600 material
Plastic Industry - Type K with two pin Bayonet fitting, Class A & Class B types
Pipe/Clamp style - Various Pipe Sizes
Machine/Bolt Style - Type K Various washer sizes
Accessories - BSP, Bayonet, Flange Fittings, TC Cable, Ceramic/Thermoplastic Connectors
 Virtually any style made to order
CE, ANSI and ROHS



Timers, Time Relays, Time Switches, Monitoring Relays



Analogue - Single and Dual, Multifunction, Delay ON/OFF, Assymetric, Staircase, Double Delay, Memory, Latching, Delay On Star Delta
Digital Time Switch - Daily/Weekly, Monthly, Yearly, Dual and Astronomical Types with 100 Programs and Removable Battery
Digital Timers - Single and Dual Output Types, 9999 Hr timing range. Memory Feature
Monitoring/Control Relays - AC/DC Voltage, Current, Frequency, Level, Light, Temperature
Twilight Switch - Digital or Analogue Timing, Astronomical
CE/UL



Programmable Logic Controllers & HMI Touch Screens



Miniature PLC - Din Rail Mount, 3 Ranges with various Configurations, Millenium 3, Millenium EVO, EM4

I/O - 10/12 Input 4 Output, 14 Input 10 Output Expandable to a maximum of 54 I/O

Communcation - RS485, Ethernet, Bluetooth, 3G, Wifi options

HMI Touch Screen - Essential (4 or 7 Inch & Dual RS485 Comms), Performance (4,7 or 10 Inch Ethernet & RS485 included VNC Server) **CE/UL ROHS**

Signal Conditioners/Transmitters/Transducers



Voltage & Phase Moitoring Relays - High performance, and low cost types

Current Monitoring Relays - Single and 3 Phase, AC & DC Custom made types available

Speed Monitoring Relays - For Motor Speed Monitoring and Control

Motor Protection Relays - Mechanical Circuit Breakers (Thermal or Thermal and Magnetic)

Tank Level Control Relays - Low cost

Signal Conditioners/Transmitters - Process Levels or AC/DC Current/Voltages

Oil Pressure/Temperature Transducers - For Compressors, Chillers & Automotive **CE/UL**

Motors, Starter Motors, Alternators, Encoders



Motor Contactors - DIN Rail Mount, DC PWM Rated (up to IP67K), Aviation and Milspec

Motor Start Relays - Motor Protection

E Bike Systems - For up to 250W, with HMI, Smartphone Applications, Tube Batteries

Encoders - State of the art industrial positioning and speed encoders for utilities

Electric Motors - Starter Motors, AC & DC Motors, Alternators, BLP Motors, and Electrical Drives including Spare Parts

Motor Protection Circuit Breakers - Thermal or Thermal & Magnetic Release

CE/UL



Phase Angle/Burst SCR Power Controllers



Premium SCR Controllers - AE(AEG)Thyro S, Thyro A, Thyro AX, Thyro PX
U,U², I,I², P,P² Modes with Sync & Comms

Din Rail Mount - SCR and SSR Based models

100% Australian Made - Oztherm F330, F430, F431, F311, F312 Series. Customisable

Voltage Regulators - SSR based Proportional Single and 3 Phase, Phase/Burst Control

HVAC Controllers - SSR and SCR Based, PWM Controller, Compact with Display, Proportional Heating

CE and UL

Power Factor Correction



Power Factor Correction Capacitors - Single Phase and 3 Phase 440/525V 5 kVar to 40 kVar Gas Filled and Dry Type

Power Factor Correction Controllers up to 12 Steps, Basic and Logging types

Capacitor Duty Contactors - 12 kVar to 50 kVar with Aux Contacts

Smart Capacitor Banks - 100% Australian Made up to 600kVar

Power Quality Meters and Transducers - Panel Mount, DIN Rail, lot Loggers with Email and Relay Alarms, and in built Web Page

CE, ANSI and ROHS

EMC Filters, Chokes, Pulse Transformers & IEC Inlets



EMC(RFI) Line Filters - 1 and 3 Phase, Low Leakage/Medical Grade, Assymetric/Symmetric

Sine Wave Filters - For output Filtering

IEC Inlets - With or Without EMC(RFI) Filter, Fuse(s), Switch or Illumination

Chokes - Limited Range of Chokes for Line Attenuation

Pulse Transformers - For optimum low EMC switching of devices.

Appliance Fuses & Fuse Holders - Time Lag (Slow Blow), Fast Acting types up to 30 Amp.

CE/UL

Power Capacitors



Power Factor Correction Capacitors - 440/525VAC 5kVar to 50kVar types with triples safety feature.

Medium Voltage - 22kV, 400kVar capacitors made to order for indoor or outdoor use

Induction Heating - All Types Made to order

Snubber/Absorbion (Kondensator) -

Railways grade, standard and custom made types

DC Link and Electrolytic - Project qty's on request

CE/UL/ROHS

Power Semiconductors

TECHSEM



Bridge Rectifiers - Single and 3 Phase, Half Controlled, Braking Diode, Welder Types

Isolated Power Modules - Diodes, SCR's, Hybrid, IGBT's, Fast and Standard Types

Stud Mount Devices - Metric and Imperial Diodes, SCR's, Flat Base, Rotating, Fast and Standard Types

Capsule (PUK) Devices - Diodes, SCR's, GTO's, Fast and Standard Types.

Press Fit Diodes - Diode Pellets, Welding Diode Capsules, Press Fit (Button) Diodes

Part Cross Reference & Alternative



Sourcing Specialist
CE/UL/ROHS

Solid State Relays



DIN Rail Mount - AC or DC Control, AC or DC Switching types with heatsink

Panel Mount - AC or DC Control, AC or DC Switching types for mounting onto heatsink

Solid State Contactors - For Single and 3 Phase Power Applications

Solid State Motor Contactors - 3 Phase, 7.6, and 18/20 Amps Forward and Reversing Types

PCB Mount SSR's - SIP, 5 Pin Socket, and Input/Output Modules

5 Pin Socket Mount - For Standard Relay Sockets, Slim types

CE/UL & ROHS

Industrial Current & Voltage Transducers



Current Sensors with Process Outputs -

Compact Designs for Process Automation, Data Logging, and Control Systems

Solid and Split Core Current Sensors -

Busbar/Panel/DIN Rail/PCB Mount

AC/DC Current and Voltage Sensors -

Bidirectional Instantaneous, and Signal Conditioned Types

High Isolation & Operating Ranges - MV

Isolated Voltage or Measurement up to 6.4kV, 20,000 Amp AC or DC

CE/UL/ROHS



Solid State Contactors



Natural and Fan Cooled - 50 Deg C Ambient

Ratings, Optional Thermal Overload Status

Various Control Input Types - 24VAC, 3-

32VDC, or 90-280VAC

Wide Range of Load Current/Voltage - 24-

660VAC, 13-5000 Amp Single or 3 Phase

Two SSR Configurations - Solid State Relay

Style or Contactor Style Modules

Crydom or Fastron SSR - Crydom for UL

requirement, or Fastron lower cost SSR for CE Requirement

Custom and Standard Models Available - To

suit customer requirements, available space

CE/UL/ROHS



Power Supplies



Din Rail Mount - Plastic or metal framed types

Open Frame - OEM style, Modular/Stackable

Bipolar Power Supplies - To suit LEM or other

Hall Effect Sensors and Transducers

Plug Packs - Convenient GPO Mounted Plug

Pack Style

Panel Mount - Available on Request

Custom Power Supplies - Available on

Request

AC to DC Rectifiers - Custom made on

request for heavy industrial applications and retrofit

Controlled Rectifiers - For Electrolysis

CE/UL/ROHS



Utility Meters and NMI Sub Meters



Revenue Meters - Single and 3 Phase
SDM230, SDM630, Premier , Elite TOU, RS485
or Modbus RTU, Optical Port, Extended Load
Profile, PV Friendly, Import/Export, "No power
reading" functionality, Optional Digital I/O, 5
Years backup, Tarriff Schemes, up to 100 Amp
direct connect

Sub Meters - Single and 3 Phase SDM230,
SDM630, MID Approved, NMI, SCADA

Wireless Meters - Lorawan Wifi Enabled

NMI Pattern Approved

Power, Current, Voltage Meters



Digital Voltmeters and Ammeters - Wide
range of input options, CT Current, 4-20mA/0-
10V inputs with optional Relay Alarms,
Retransmission output. Dual Display and LCD
options. Up to 600VAC/DC

Analogue Voltmeters and Ammeters - Direct
or CT Connected, Dual Parameter, Voltage
Ranges up to 690VAC/DC

Hour Meters - Round or Square faced with
various cutout sizes, IP54

Indicators - Temperature or Proportional
scalable indicators with Red/Green or White/
green LED Displays

CE and UL

Calibration and Compliance



Portable Meters - Clamp Meters, Multimeters,
Power Quality Analyser/Logger, Thermometer

High Precisions Current Sensors - For
Compliance or Medical Equipment

Synchronometers - For monitoring and control
of Gas/Diesel Gensets

Hand Held Clamp on Current Sensors - For
testing and analysis purposes

High Precision Potentiometers - For high
precision test and calibration equipment

Power Semiconductor Testers - Portable,
Laboratory, or Production Line models

CE and UL

Railway Current and Voltage



LEM
Life Energy Motion



Hall Effect Current Transducers - AC and DC Measurement 0-5V, +/-4V, Rm(Current) outputs

Hall Effect Voltage Transducers - AC and DC Low and Medium Voltage Measurement 0-5V, +/-4V, Rm(Current) outputs

Signal Conditioned Transducers - Standard process outputs

DC Earth Leakage Transducer - For Earth Leakage Measurement for 1 or 3 Phase Systems

CE and UL

Power Meters & Power Quality Analysers



AND
Metering Solutions

Iskra

EASTRON
EUROPE

kWh Submeters - kWh Meters, Network Recorders, Network Analysers, Power Quality Analysers, Class 0.1 to Class 1 with various Communications options, Din Rail and Panel Mount, 100 Amp Direct, or CT Connected

Current Transformer - Direct, 0.333V, 1/5 Amp

Modular kWh Meters - 2,3,4 in one or 32 in one configurations

EV Charger Meters - AC, and DC Meters with PTB (Eichrect) Certification, NMI (Pending)

Network Recorders - Wide range of Input Options, Galvanic Isolation, Process Outputs

Power Quality Analysers - Class A
CE/UL

Current Transformers



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R



RTR
energia

Solid Core/Solid Core - Class 0.2(S), 0.5(S), 1, Moulded style, Clip on, Snap on, Screw on, busbar mount, encapsulated/moulded types

3 Phase and Single Phase - High VA Ratings, 3 Phase (3-in-1) Direct MCCB Mounted

Signal Conditioned Output - Solid and Split Core ranges with 4-20mA/0-5V/0-10V

Rogowski Coils - Class 1 and Class 0.5, True RMS conditioned output, adjustable sensitivity

Hand Held Clamp on Current Sensors - For testing and analysis purposes

Output Standards - 0.333V, 1/5 Amp, or Custom

CE, ANSI and ROHS

Mechanical Relays & Bistable Switches



Subminiature Relays - PCB or Din Rail Mount with large flat pins

Single Pole 5 Pin 1 x 12 Amp SPDT Form C

Two Pole 8 Pin 2 x 10 Amps (DPDT) Form C

Four Pole 14 Pin 4 x 5 Amp SPDT Form C

Latched Relays/Bistable Switches - Position Indicator, Zero Holding Current, up to 80 Amp Ratings, Manual Switch, Modbus Controlled Versions

Slim Relays - PCB or DIN Rail Mount with 12VDC/24VAC/DC or 240VAC Inputs

Relays Bases - Sold Separately

CE/UL and ROHS



Contactors



Din Rail Mount Contactors - Ratings up to 1100 Amp Per Phase, Motor Duty Contactors

Control Input Ranges - 24VAC, 24VDC, 415VAC, 240VAC, 220VDC

Capacitor Duty Contactors - For Extremely High Inductive or Capacitive Loads

Thermal Overload Relays - Adjustable type for Mounted on Contactor Output Contacts

Auxilliary Contacts - Snap on Single or Multi Pole

Hermetially Sealed Types - IP67K, PWM Rated Coils, Designed for DC & AC Loads
Milspec & Aviation - High reliability versions for Military, Electric Vehicle and Aviation Markets

CE/UL and ROHS



Switches for HMI, Industrial and Appliances



Thermal & Magnetic Circuit Breakers -

Manual and Automatic Reset Types, Optional Aux Contact, Various Mounting Types, Ratings up to 16 Amp, 28VDC

Thermoplastic Membrane Switches - HMI User Panels, Low Resistance, 48VDC 100mA

Industrial Grade Switches - Toggle, Load Break/Disconnect switches, Pushbutton/Indicators

Metal Line Switches - Switches with Latching/ Non Latching, 240VAC@ 10 Amp, or 48VDC @ 125mA with Piezo, Capacitive, Stokers, Illuminated or Standard/Custom Engraved

Rocker Switch - Thermal Breaker, Illuminated, Non Illuminated, Latched, Optional Covers

CE/UL and ROHS



Semiconductor and Solar Fuses



BS88 Fuse Links (aR) - Most Popular models kept in stock up to 700 Amp with mounting kits
Cartridge Fuses (gR) - versions
NH European Style Fuses (aR,gG) - 78mm, 108mm Bussmann/Ferraz/ETI Equivalents
Appliance Fuses - Time Lag (Slow Blow) and Solar Fuses (gPV, Type J) - 10.3x38mm
Ratings for 1000VDC, 275VAC, 1 to 50 Amp
Fuse Holders and Standoffs - Din Rail (Cartridge) and Panel Mount (NH, BS88)
CE/UL and ROHS

Surge Protection Devices



Metal Oxide Varistors(MOV) - Up to 680VAC kept in stock (1100VAC on request)
GDT's
Surge Protection Devices(SPD) - Main/Sub Boards versions, 1, 2 and 3 Pole modular options, Type 1, 2/ B, C Class I, II. MOV and GDT, L/N-PE, L-PEN, L-N, L-PE
Snubber Capacitors - LV to MV Range, Railway Grade, High Overload, AC and DC
Thermal Circuit Breakers - HMI Appliances
Transient Suppression Resistors - For continuous voltage clamping in drives
Low Voltage Switchgear - See Next Category
CE/UL and ROHS

Electrical Wholesale Components



Moulded Case Circuit Breakers (MCCB) - Ratings for 690VAC and 1250 Amp, Adjustable Thermal and Magnetic types
Circuit Breakers (MCB) - AC Types 1 to 120 Amp 230/400VAC Rated, DC Types 1 to 63 Amp 400VDC Rated
Twilight Switches - Timers with light detection
Residual Current Circuit Breakers (RCD) - 100 Amp 230/400VAC Rated
Residual Current Breakers with Overcurrent Detection (RCBO) - 63 Amp @ 230VAC 1P/2P
Disconnect Switches - For Solar or Industry
Busbar Systems - To suit our range
Enclosures - 4 to 36 DIN, IP65/40
CE/VDE/GHOST

Communication Accessories & Consulting Services



Industrial Communication Gateways - RS485, Ethernet, RS232, USB Converters
Remote Web Server Datalogger - Mini web server with 1 or 8GB storage
Remote Alarming System - Email, Digital or Relay Output Remote Alarming Devices.
Thyro Series Anybus Interface - Profibus, Profinet, EthernetIP, EtherCAT, Modbus RTU
Energy Management Software - Fastron Ergo and Iskra Miqen scalable software system.
IOT Consulting Services - Through long term trusted partners
CE and UL

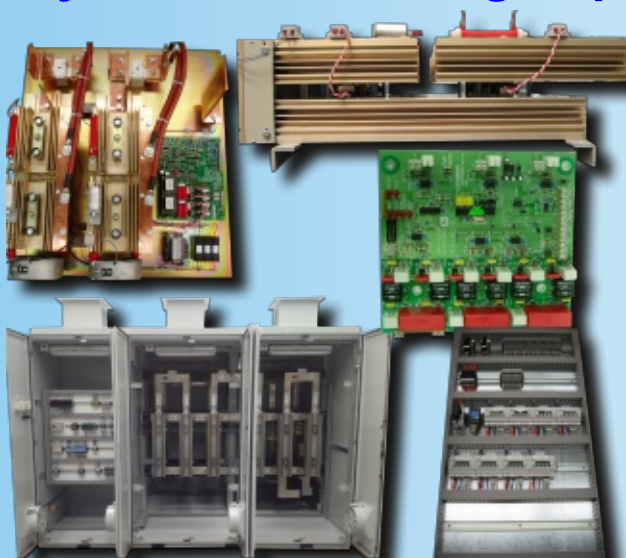
E-Mobility & Renewables



Home EV Charger (AC) - Standard ranges up to 22kW 3 Phase or BiPhase
Public EV Charger (DC) - 160kW versions for Rapid Charging Networks
EV Charging Systems - Secure EV Charging, Payment and Notification System
Hall Effect Current Sensors - Dual Range(DHAB), and CAN BUS Types(CAB)
Automotive gR Fuses - Ratings up to 200 Amp 60VDC with Enclosed Fuse Holders
Gigavac DC Contactors - 1000 Amp and 90kV Ratings IP67

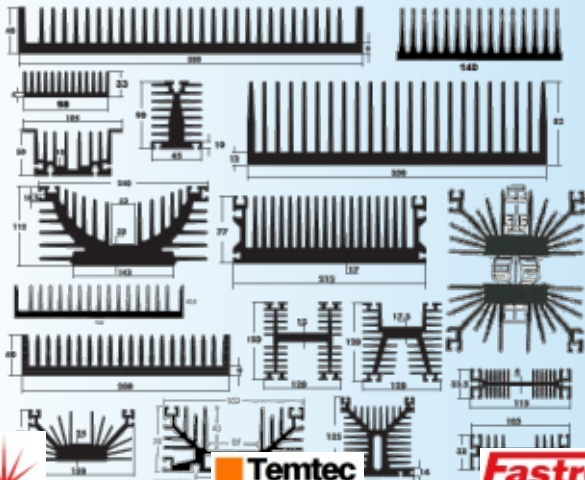
CE, ANSI and ROHS

Project/Manufacturing Capabilities



Rectifier Design - Forward/reversing types
DC Substation Blocking Diodes - Proven railway designs with redundancy
Rectifier Exciter Cubicles - Power stations
Power Factor Correction Capacitor Banks - 100kVar - 600kVar
Snubber Panels - Suppression Panels
Heating Control Cubicles - SCR Controller, Contactor, Relay, PID Controller Systems
PLC Systems - Custom PLC Projects using Crouzet Automation mini PLC, 54 I/O Maximum
Metering Panels - Design and assembly or loose kitting

Heatsink



Extruded - Most popular styles kept in stock and made to order.

High Dissipation - Bonded and extruded types, single and double sided

Din Rail or Panel Mount - For all types for semiconductor mounting

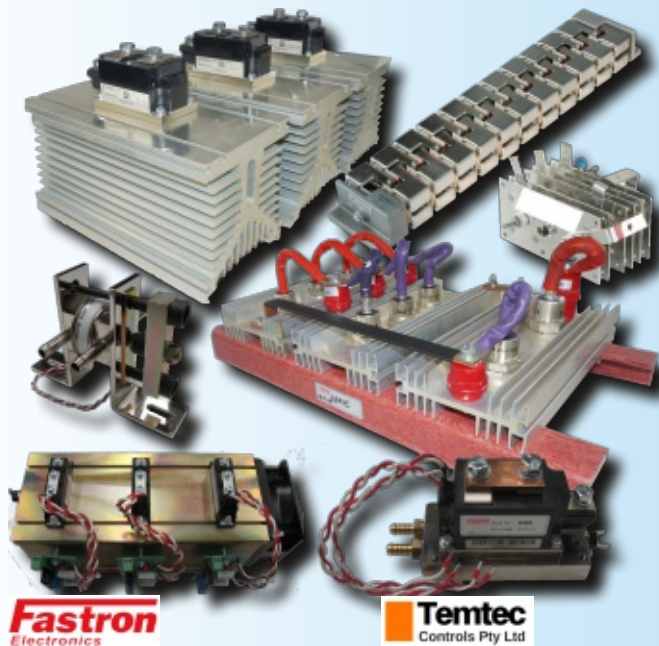
Fan Cooled - For 92mm,120mm,150mm fans

Water Cooled - Various configurations for extreme applications

Machining Services - Milling/drilling/alodining

Heatsink Design - Custom heatsink design

Semiconductor Assemblies



Bridge Rectifiers - Single, 3 Phase, 6 or 12 Pulse with or without IPT Transformer

Blocking Diodes - For Datacenter Online Protection, Substation Fault Protection

Water Cooled - For welders, or extremely demanding applications

Button/Pellet Diode Assemblies - Air Cooled ,Low Cost, Up to

AC Switches - For ON/OFF or Phase Control of extremely high powered applications

High Voltage Diode Arrays - For Electrostatic Precipitators or similar.

CE, ANSI and ROHS

Cooling Accessories



Fans for Heatsink - Ballbearing Fans for standard heatsink sizes 60x60mm, 80x80mm, 92x92mm, 120x120mm, 150x150mm

Fan Cooled Heatsink - Various sizes for almost any application, 117 x 150mm, 117 x 168mm, 125x125mm.

Thermal Paste for Heatsink - Wolfracoat C Conductive lubricating paste 400gm and 1.2kg, and small non conductive paste packs

Thermal Bimetal Switches - Normally Open or Normally Closed, 70 to 150 Deg C Double and Single Sided Clamps

Clamps for Capsule Devices - Insulated, Double Sided and Single Sided (Box Clamp)

Water Coolers - For Isolated Modules or Capsule Devices



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Iskra®

SEMIKRON

SCHURTER
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Raycap

SECURE

greenmotion

Letrika

POWERSEM

SanRex

VISHAY

Metering Solutions

RTR
energia

BEI SENSORS

OZtherm

Leclanché
Capacitors
A FISCHER & TAUASCHE COMPANY

TECHSEM

MAGNELAB

Sensata
Technologies

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CAPACITORS

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- Power Semiconductors
- Electrical Measurement
- Process Control

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