



POWER AND COOLING FOR DATA CENTERS

APPLICATIONS



SWITCH GEAR & POWER PROTECTION

Facility-level power protection, switching, fault isolation, harmonic mitigation, and distribution. Supports safe delivery of power throughout the data center electrical infrastructure. Combines switchgear functions with power controls, switching, sensing, and monitoring.



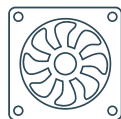
POWER RACK AND BUSWAY

A high-capacity, scalable power distribution system that delivers electricity to server racks, Graphics Processing Unit (GPU) clusters, and IT equipment, enabling efficient power management and flexible expansion to support high-density AI data center workloads.



UNINTERRUPTIBLE POWER SUPPLIES (UPS) & ENERGY STORAGE SYSTEMS

Battery backup, UPS systems, BESS, and energy storage infrastructure that ensure continuous operation during outages and power quality events. Includes battery connectivity, charging/discharging systems, current sensing, and backup power interfaces.



COOLING DISTRIBUTION UNITS (CDU)

Cooling Distribution Units are the heart of liquid cooling architecture in modern high-density data centers. CDUs manage coolant flow, temperature, and pressure to cold plates and in-rack liquid cooling loops, directly enabling GPU/CPU thermal management.



SERVER AND COMPUTE POWER CONNECTIVITY

Power delivery from rack infrastructure into servers, AI accelerators, GPU trays, compute sleds, power shelves, and blade systems. Includes Open Compute Project OCP-compatible power connectors, Multi-Beam, Rapid Lock, ELCON, ICCON, and other high-power compute interconnects.



POWER GENERATION/PORTABLE POWER GENERATION (GENSETS)

Portable Power Generation (Gensets) includes diesel, natural gas, hydrogen, dual-fuel, and biogas systems that provide primary or backup power for data centers and critical infrastructure. As data center power demands grow and energy resilience strategies evolve, gensets represent a significant and expanding market for reliable, frequency-stable power generation.

INDUSTRY OVERVIEW

The rapid increase in data center rack power density, from hundreds of kilowatts to megawatt-scale deployments, is driving significant changes in power and thermal management infrastructure. This trend is accelerating the adoption of **800V HVDC power distribution architectures** and advanced **Coolant Distribution Units (CDUs)**.

As a result, data center operators require connectivity solutions that can support:

- Higher power and current loads
- Superior power quality and system reliability
- Increased scalability and deployment flexibility
- Long-term performance in demanding operating environments

HOW TE CONNECTIVITY (TE) SUPPORTS CUSTOMERS

TE helps customers address these evolving challenges through:

1. Comprehensive and reliable product portfolio

- High-power connectivity solutions
- Circuit protection technologies
- Solutions that support enhanced power quality and system uptime

2. Scalable manufacturing and supply capabilities

- Global production footprint
- Consistent quality at scale
- Short lead times to support rapid deployments

3. Lifecycle-oriented design and customization

- Designs fine-tuned for current and next-generation platforms
- Flexible customization to meet specific application requirements
- Long-term support throughout the product lifecycle

4. Responsive engineering and customer support

- Fast technical engagement
- Close collaboration from design through deployment
- Dedicated support to accelerate time-to-market

POWER AND COOLING FOR DATA CENTERS



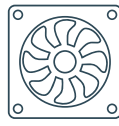
**SWITCH GEAR
& POWER
PROTECTION**



**POWER RACK
AND BUSWAY**



**UNINTERRUPTIBLE POWER
SUPPLIES (UPS) & ENERGY
STORAGE SYSTEMS**



**COOLING
DISTRIBUTION
UNITS (CDU)**



**SERVER AND COMPUTE
POWER CONNECTIVITY**



**GENERATION/
PORTABLE POWER
GENERATION
(GENSETS)**



CONNECTORS



**EMC FILTERS
& CHOKES**



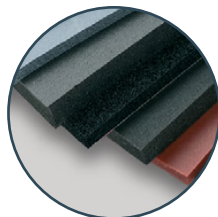
DC CONTACTORS



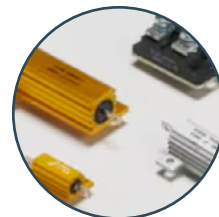
**ACTIVE POWER
QUALITY**



**HEAT SHRINK
TUBING**



EMI SHIELDING



RESISTORS



SWITCHES



**IDENTIFICATION
AND LABELLING**



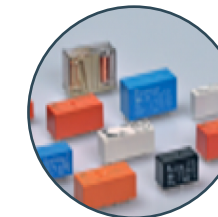
SENSORS



**TERMINALS
& SPLICES**



**POWER
DISTRIBUTION BUSBARS**

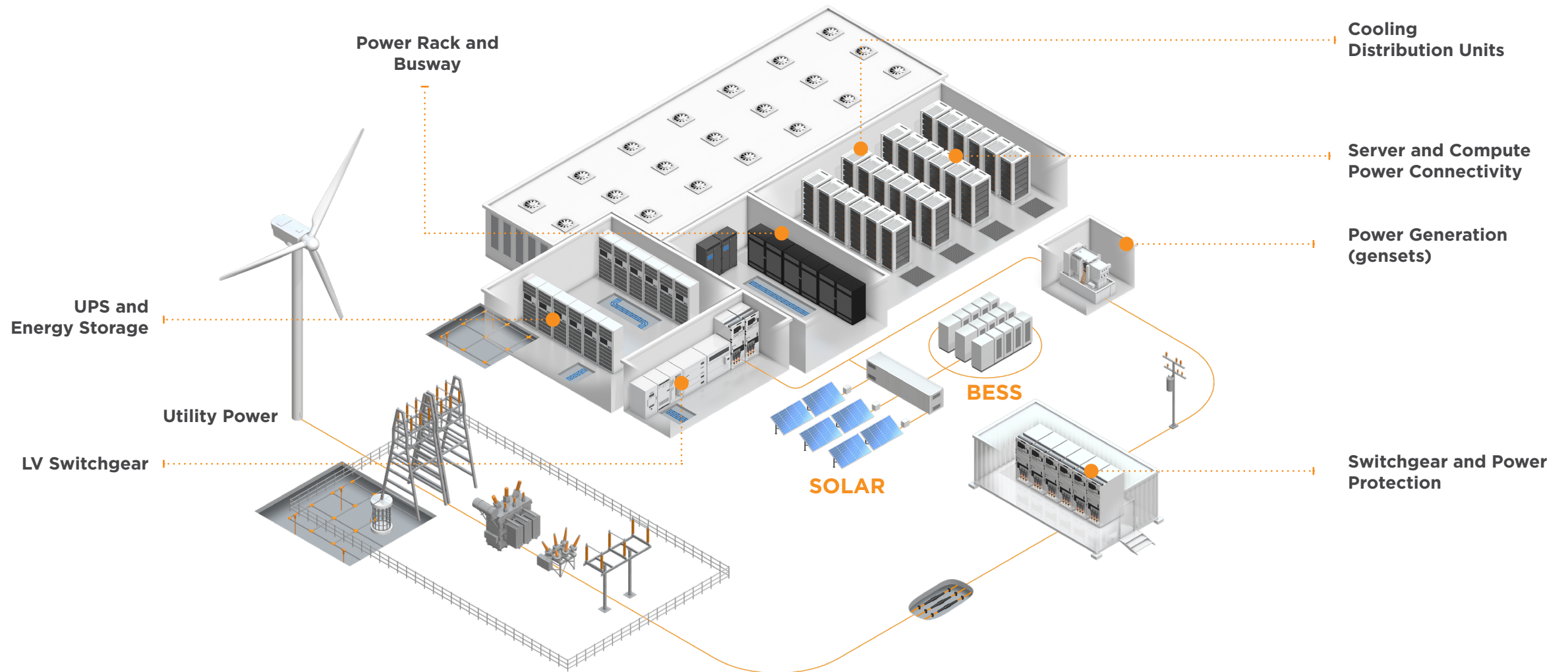


RELAYS



**OPEN COMPUTE
PROJECT COMPATIBLE
POWER SOLUTIONS**

POWER AND COOLING FOR DATA CENTERS



SWITCH GEAR & POWER PROTECTION

POWER CONNECTORS - HIGH CURRENT



HDC Heavy Duty Connector (Power)



HDC LSO Focus Solution



DBL (Distribution Bar Link)



HPC (High Power Connector) 125A-400A

Signal Connector



2.0mm Signal GRACE INERTIA Connectors



MTA 100 Connectors

DC Contactors



DC Contactor ECK

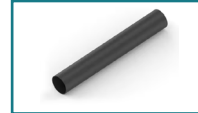


DC Contactor ECPS

Heat Shrink Tubing



Mini K HV Pre-Charge Relay



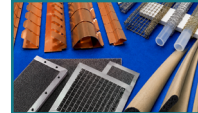
ATUM Heat Shrink Tubing



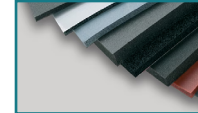
RNF-100



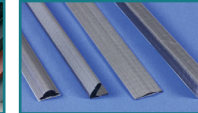
VERSAFIT V4 Heat Shrink Tubing



EMI / EMC Shielding



Conductive Elastomers



Conductive Fabric Over Foam Gaskets



EMI Connector Gaskets



EMI Air Vent Panels

EMI shielding

Resistors



Chassis Mount Resistor CFH Series



Chassis Mount Resistor TE Series

Switches



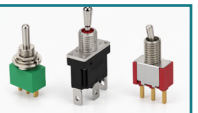
Emergency Stop Switch



Rocker Switch



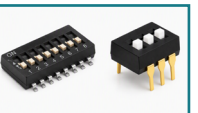
Panel Switch/ Selector Switch



Toggle Switch



Tactile Switch



DIP switch



Printable Tubing RPS Series



SOLISTRAND Terminals and Splices

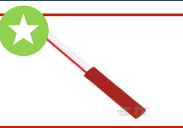
Identification and Labelling

Terminals & Splices

Temperature Sensor



300H Stator RTD (Rear Exit)



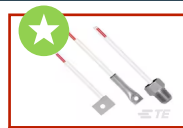
320M Silicone Rubber Surface RTD Sensor



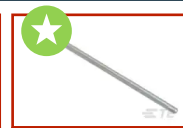
321M Polyimide/Acrylic Surface RTD Sensor



322M Polyimide/FEP Heavy Duty Surface RTD Sensor



623M Bolt-On RTD Probe



100M RTD Probe



High power connector NTC temperature sensor

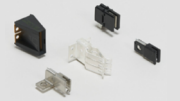
Legend

Spotlight

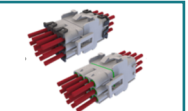
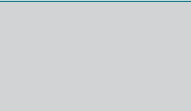
★ INCLUDES LATEST PRODUCTS

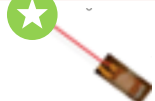
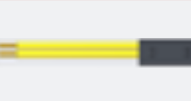
POWER RACK AND BUSWAY

Power Connectors

 HPC (High Power Connector) 125A-400A	 HDC Heavy Duty Connector (Power)	 HDC Cable & Connector Assembly	 Busbar Connectors	 ICON High Power Portfolio	 RAPID LOCK Power Connectors	 Wave Crimp Flat Copper Power Connectors	 LP 6.2 wire-to-board power connector
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		Circular Connectors	Sealing Connectors	PCB Connectors
		 Circular Plastic Connectors	 Miniature Circular Plastic Connectors	 SlimSeal Miniature Series
				 MTA 100
				 MTA 156

Rectangular Connectors								DC Contactor	Power Distribution
							 EMC Filters - 1Ph/DC	 DC Contactor ECPS	 DC Contactor ECK
								 DBL Power Distribution Block	

Power PCB Relay	High-voltage DC main contactor	Temperature Sensor					
 RT Relay	 RZ Inrush Relay	 EVC 250 Contactor	 320M Silicone Rubber Surface RTD Sensor	 321M Polyimide/Acrylic Surface RTD Sensor	 322M Polyimide/FEP Heavy Duty Surface RTD Sensor	 High power connector NTC temperature sensor	 O-ring NTC temperature sensor

Legend

Spotlight

 INCLUDES LATEST PRODUCTS

Heat Shrink Tubing



Mini K H
pre-charge relays



ATUM
Heat Shrink Tubing



ES2000



RNF-100



VERSAFIT
Heat Shrink Tubing



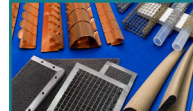
DWP-125



SCL

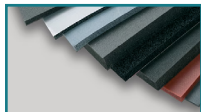


SCT

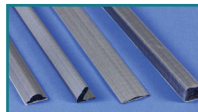


EMI /
EMC Shielding

EMI shielding



Conductive
Elastomers



Conductive
Fabric Over
Foam Gaskets

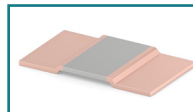


EMI Connector
Gaskets

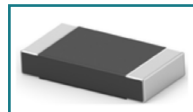


EMI Air Vent
Panels

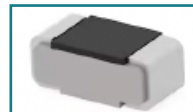
Current Sense Resistors



Current Sense
Resistor
SVSQ Shunt



Current Sense
Resistor
TLRP Series



SMD Power
Resistor

Precision Resistors



Precision Resistor
CPF-A Series



Precision Resistor
RQ73 Series

Identification and Labelling



Printable Tubing
RPS Series

Switches



Rocker Switch



Emergency
Stop Switch



Anti-Vandal
Switch



Tactile Switch



Detector Switch

Terminals and Splices



FASTON
Terminals



Positive Lock



SOLISTRAND
Terminals & Splices



PLASTI GRIP
Terminals & Splices



Ring Terminals and
Spade
(Open Barrel)



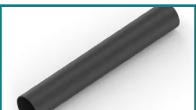
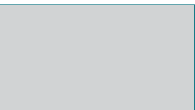
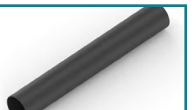
AMPOWER
Terminals & Splices

Legend

Spotlight

★ INCLUDES LATEST
PRODUCTS

UPS & ENERGY STORAGE SYSTEM

Circular Connectors  Circular Plastic Connectors		 Miniature Circular Plastic Connectors		Rectangular Connectors  METRIMATE Connectors		 Signal Double Lock Connectors		 Micro MATE-N-LOK Connector System		 Mini Universal MATE-N-LOK Connectors		Sealing Connectors  SlimSeal Miniature Series		Power Connectors  Power Versa-Lock Connector System		Signal Connectors  2.0mm Signal GRACE INERTIA Connectors		Battery Connector Types  Mobile Battery Connectors															
PCB Connectors  MTA 156				 Battery Connectors and Holders		 DC Jack Battery Connectors		Power Connectors - High Current  HPC (High Power Connector) 125A 600A																									
Heat Shrink Tubing  ATUM Heat Shrink Tubing												 ES2000		 RNF-100		 VERSAFIT Heat Shrink Tubing		 DWP-125		 SCL		 SCT		 EMI / EMC Shielding		Resistors  Chassis Mount Resistor CFH Series				 SMD Power Resistor SMQ Series		 Current Sense Resistors TLRP Series	
DC Contactors  DC Contactor ECPS 500B-800B (Battery BDU)		Temperature sensors  High power connector NTC temperature sensor  O-ring NTC temperature sensor  320M Silicone Rubber Surface RTD Sensor  321M Polyimide/Acrylic Surface RTD Sensor  322M Polyimide/FEP Heavy Duty Surface RTD Sensor																															

Legend
Spotlight

 **INCLUDES LATEST PRODUCTS**

Switches



Rocker Switch



Anti-Vandal
Switch



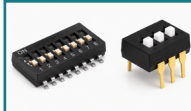
Emergency
Stop Switch



Toggle Switch



Tactile Switch



ADE/ADF/GDH/
GDS Series

Identification and Labelling



Printable Tubing
RPS Series



Cable Ties

Terminals & Splices



FASTON
Terminals & Splices



Ring Terminals and
Spade (Open Barrel)



Positive Lock



SOLISTRAND
Terminals and
Splices



MAG-MATE
Terminals

Magnet Wire Terminals

Legend

Spotlight

★ INCLUDES LATEST
PRODUCTS

SERVER AND COMPUTE POWER CONNECTIVITY

Power Connectors



Busbar Connectors



ICCON High Power Portfolio



Wave Crimp Flat Copper Power Connectors



RAPID LOCK Power Connectors

PCB Connectors



MTA 100



MTA 156

Rectangular Connectors

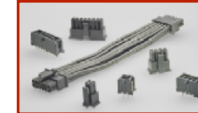


Micro MATE-N-LOK Connector System



Mini Universal MATE-N-LOK Connectors

ELCON Connectors and Cable Assemblies



ELCON Micro Connectors and Cable Assemblies



ELCON Mini Connectors and Cable Assemblies



ELCON Drawer Connectors

MULTI-BEAM Connectors

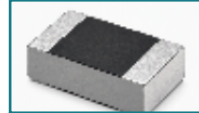


MULTI-BEAM XL, MULTI-BEAM XLE, MULTI-BEAM HD, and MULTI-BEAM CE Connectors

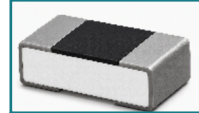


Open Compute Project Compatible Power Solutions

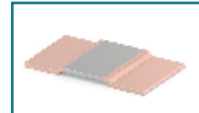
Resistors



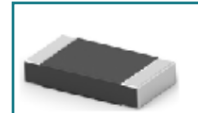
Precision Resistor CPF-A Series



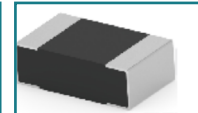
Precision Resistor RQ73 Series



Current Sense Resistor SVSQ Shunt



Current Sense Resistor TLRP Series



Current Sense Resistor TLMQ Series

Temperature Sensors



TSYS01 Digital Temperature Sensor



TSYS03 Digital Temperature Sensor

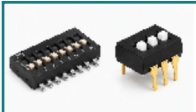
Switches



Tactile Switch



Detector Switch



DIP Switch



Anti-Vandal Switch

Identification and Labelling



Printable Tubing RPS Series



Cable Ties

Legend

Spotlight

★ INCLUDES LATEST PRODUCTS

Connectors



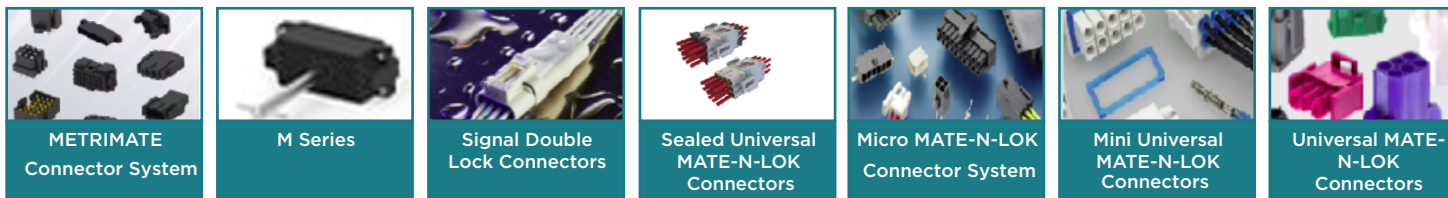
Intercontec Connectors

M12 Connectors and Cord-Sets

HDC Heavy Duty Connector

IEC Lock Cable Connector IL13/19

Rectangular Connectors



METRIMATE Connector System

M Series

Signal Double Lock Connectors

Sealed Universal MATE-N-LOK Connectors

Micro MATE-N-LOK Connector System

Mini Universal MATE-N-LOK Connectors

Universal MATE-N-LOK Connectors

Sealing Connectors



SlimSeal Miniature Series

Circular Connectors



Circular Plastic Connectors



Miniature Circular Plastic Connectors

PCB Connectors



MTA 100

Signal Connectors



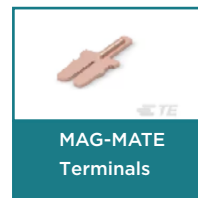
2.0mm Signal GRACE INERTIA Connectors

Power Connectors



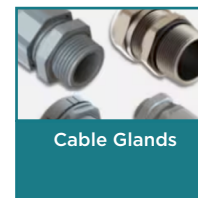
Power Versa-Lock Connector System

Magnet Wire Terminals



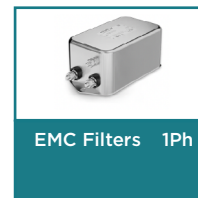
MAG-MATE Terminals

Wire Protection & Management

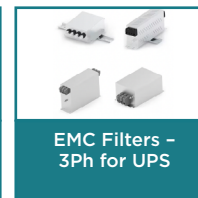


Cable Glands

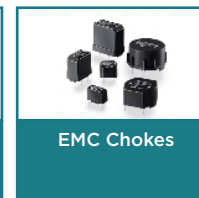
EMC Filters & Chokes



EMC Filters 1Ph

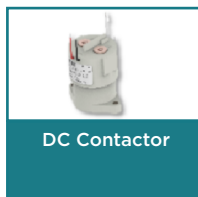


EMC Filters - 3Ph for UPS



EMC Chokes

DC Contactors



DC Contactor

Pressure Sensors



U5300 Series Pressure Transducer



U5200 Series Pressure Transducer



U7100 Series Pressure Transducer



M5200 Compact Industrial Pressure Transducer



M3200 Compact Industrial Pressure Transducer

Temperature Sensor



TRP100/TRN100 PT & NTC Precision Thermal Sensors



110M Direct Immersion RTD Probe- Twin Threaded Fitting



111M Direct Immersion RTD Probe- Process Threaded Fitting

Level Sensors

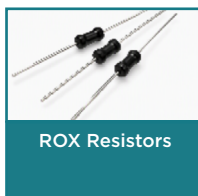


LL-01 Series Ultrasonic Liquid Level Sensor



LL 10 Series Ultrasonic Liquid Level Sensor

Resistors



ROX Resistors



SM Series



Precision Resistor CPF-A Series



Current Sense SVSQ Shunt

Power Inductor



3656 Inductors



3631 Inductors

Inductors



3656 Series Power Inductors

Power Quality Filter



Active Harmonic Filter



Passive Harmonic Filters

Legend

Spotlight

INCLUDES LATEST PRODUCTS

Heat Shrink Tubing



ATUM
Heat Shrink Tubing



ES2000



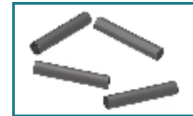
RNF-100



VERSAFIT
Heat Shrink Tubing



DWP-125



SCL



SCT



EMI / EMC
Shielding



HFT5000
Heat Shrink Tubing



AP-2000

Switches



Tactile Switch



Toggles Switch



Emergency
Stop Switch



Anti-Vandal
Switch



AV Series,
AVH Series



Detector Switch



Rocker Switch

Identification and Labelling



RPS Series

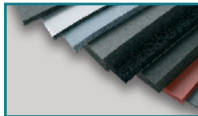


Cable Ties -
Nylon 66 Series

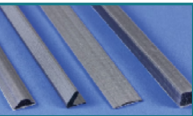


TP-Tape

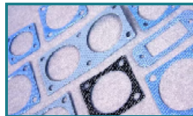
EMI shielding



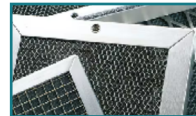
Conductive
Elastomers



fabric-over-foam/
conductive foam



EMI Connector
Gaskets



EMI Air
Vent Panels

Legend

Spotlight

★ INCLUDES LATEST
PRODUCTS

POWER GENERATION/PORTABLE POWER GENERATION (GENSETS)

Speed Sensor VR	Speed Sensor Hall	Temperature Sensor						
								
Speed sen DSE 1210.00 SHZ (2m), 304Z-04233	Speed sen DSF 1210.00 SHV (2m), 374Z-03869	310M Tip Sensitive Bearing RTD Probe	110M Direct Immersion RTD Probe- Twin Threaded Fitting	111M Direct Immersion RTD Probe- Process Threaded Fitting	300H Stator RTD (Rear Exit)	320M Silicone Rubber Surface RTD Sensor	321M Polyimide/ Acrylic Surface RTD Sensor	322M Polyimide/ FEP Heavy Duty Surface RTD Sensor
								D5100

Legend

Spotlight

 INCLUDES LATEST PRODUCTS

Connect With Us

We make it easy to connect with our experts and are ready to provide all the support you need.
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