

DARRAH ELECTRIC COMPANY

Power Conversion Solutions • Distribution • D.C. Power Supplies

DISTRIBUTOR PRODUCTS































Aavid Thermalloy, LLC.

Standard & Custom Aluminum Extrusions
Liquid Cooled Chill Blocks

Bonded Fin Heat Sinks

ABB Semiconductors

- Phase Control Thyristors
- IGBT Modules

- Power Assemblies
- Rectifier Diodes
- GTO Thyristors
- IGCT, Integrated Gate-Commutated Thryistors

Dynex Semiconductor, Ltd.

- Fast Recovery and Rectifier Diodes
- Phase Control Thyristors
- Water / Air Cooled AC Switches
- Pulsed Power Thyristors
- GTO Thyristors IGBT Modules

- Enerpro, Inc.
- Single & Three Phase SCR Firing Circuits
- Twelve-Pulse Firing Circuits
- Voltage and Current Regulator Boards Medium Voltage SCR Firing Circuits
- Transient Snubber Circuits

- Motor Starters
- **Iconopower Limited** Precision Clamps for Press
- Pack Power Semiconductors • Highest Di-Electric Strength
- Built-In Force Indicator
- Accurate Pre-Calibrated Force
- 5 Clamp Styles Available
- Single & Double Insulated Modules Available
- General Purpose Low Voltage Fuses

IXYS Corporation / Westcode Semiconductors Ltd.

- Thyristor / Diode Modules
- SCR's (Thyristors)
- Schottky and Ultra Fast Diodes
- · Rectifier Diodes and Bridges
- Power MOSFETS
- Discrete IGBT's & Modules
- Fast Recovery Diodes
- Breakover Diodes (BOD)

LEM Components

- Isolated Measurements of Current & Voltage Galvanically Isolated · Open and Closed Loop Technology

- Current Transducers 10mA to 10kA Voltage Transducers 10V to 6,400V
- PCB and Panel Mountings

• Fuse / Switch Disconnects

Mersen

- Ferraz Shawmut Fuses
- Medium Voltage Fuses Fuses Blocks & Holders
- R-Theta Thermal Solutions
- Extrusion
- Cooling Systems
- **ELDRE®**
- Laminated Bus Bars

- Power Distribution Blocks (PDBs)

· Multi-Layer Bus Bars

- Fabfin® / Hollowfin®
- Aquasink®

- General Purpose Low Voltage Fuses
- Semiconductor Fuses

- Heat Pipes
- Thermal Compounds

MOV's / Selenium Suppressors

- Selenium Surge Suppressors
- MOV's / Metal Oxide Varistors
- Selenium Rectifiers
- Voltage Surge Suppressors
- Klip-Sel SuppressorsVac-U-Sel Products
- Air / Water Cooled Assemblies
- Powerex, Inc. Rectifier Diodes • SCR's (Thyristors)
- IGBT Gate Drivers
- Pow-R-Paks (IGBT Assemblies)
- Pow-R-Brik Custom Modules
- DC-DC Converters
- Intelligent Power Modules

• SCR / Diode Modules RoMan Manufacturing, Inc. Chokes and Inductors

IGBT Modules

- Medium Frequency Transformers / Rectifiers
- Water Cooled Transformer / Rectifiers, sizes ranges from 10KA through 40KA
- Water Cooled AC Transformers

Ruttonsha

- Rectifier Diodes, Stud / Capsule
- Phase Control SCR's, Stud / Capsule
- Inverter SCR's Fast Recovery Diodes
- Thyristor / Diode Modules
- Single / Three Phase Module Bridges

Semikron

- IGBT's
- IGBT Drivers

V&F Transformer

- Thyristor / Diode Modules

- MÓSFET Modules
- Bridge Rectifier Modules Miniature Bridge Rectifier

Fuse Blocks & Holders

Special Fuses

- Medium / High Voltage FusesGeneral Purpose Low Voltage Fuses

• U.L. Listed 15-500 kVA, Copper or

Aluminum Wound, Single and

- Ultra-Rapid Fuses Miniature Fuses
- Inductors, Chokes, and Line Reactors
- Ripple Filters and Harmonic Filters Toroidal Transformers
- Power Distribution Transformers Test Supply TransformersConstant Voltage / Ferro Resonant

Three Phase Transformers Wakefield-Vette

- Standard & Custom Aluminum Extrusions Folded Fin, Stack Fin &
- Bonded Fin Heat Sinks
- Cold Plates

- Swage Fin Heat Sinks Thermal Greases & Thermal Transformer Products
- Power Semiconductor Clamps
- · Board Level Heat Sinks



POWER CONVERSION SOLUTIONS

Three-Phase Air Cooled Power Assemblies – AC Controller, Diode & Thyristor Bridges, 4 Quadrant Bridges

Darrah manufactures a complete range of heat sink assemblies designed to integrate into your new or existing power systems. Available as AC Controllers, Diode and Thyristor Bridges. Darrah assemblies mount easily within your cabinet and integrate with various control systems.

Main Features

- "Ready to use" designs resulting in reduced time to market.
- Compact Designs enable users to mount in existing, standard industrial cabinets.
- Flexible design approach covers multiple Power Levels.
- Various Voltage levels available.
- · Modular approach allows for ease of paralleling for higher power requirements.
- 6 Pulse & 4 Quadrant Re-Gen **Bridges**

To accommodate non-standard requirements, we offer complete custom designs from the ground up or minor modifications to already proven designs.

Typical Applications

- New or Retrofit Markets
- Industrial Drives
- Conveyors
- Traction, Trackside, Auxiliary, and Main Rectifiers
- Mining
- Steel Mills

- Excitation
- Hoist & Cranes
- Heating Control



MTB35518F1 Three Phase Fully Controlled Thyristor Bridge Rectifier Frame Size 1



MTB39018F1-4Q 4 Quadrant Re-Gen Rectifier Frame Size 2



MTB36018F1-4Q 4 Quadrant Re-Gen Rectifier Frame Size 1

DISTRIBUTOR PRODUCTS



OWER SU LIES





Controls

- Switchmode, SCR and Variable Transformer Controls
- Regulated and Non-regulated D.C. Current and Voltage
- Tap Switch or Stepped Selection
- PLC Interface Controls
- Six and Twelve Pulse Designs
- D.C. Polarity Reversing Switches
- · Rectifier Replacement Parts and Service

Markets

- Plating & Anodizing
- · Electro-Polishing and Electro-Coating
- **Battery Eliminators & Chargers**
- Glass / Furnace
- · Resistance Heating

Air and Water Cooled Designs - Models available to 50,000 Amps, 1,000 Volts D.C.



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5914 Merrill Avenue • Cleveland, Ohio 44102 • tel: 216-631-0912 • fax: 216-631-0440 800-621-0014 | www.darrahelectric.com







sales@darrahelectric.com

