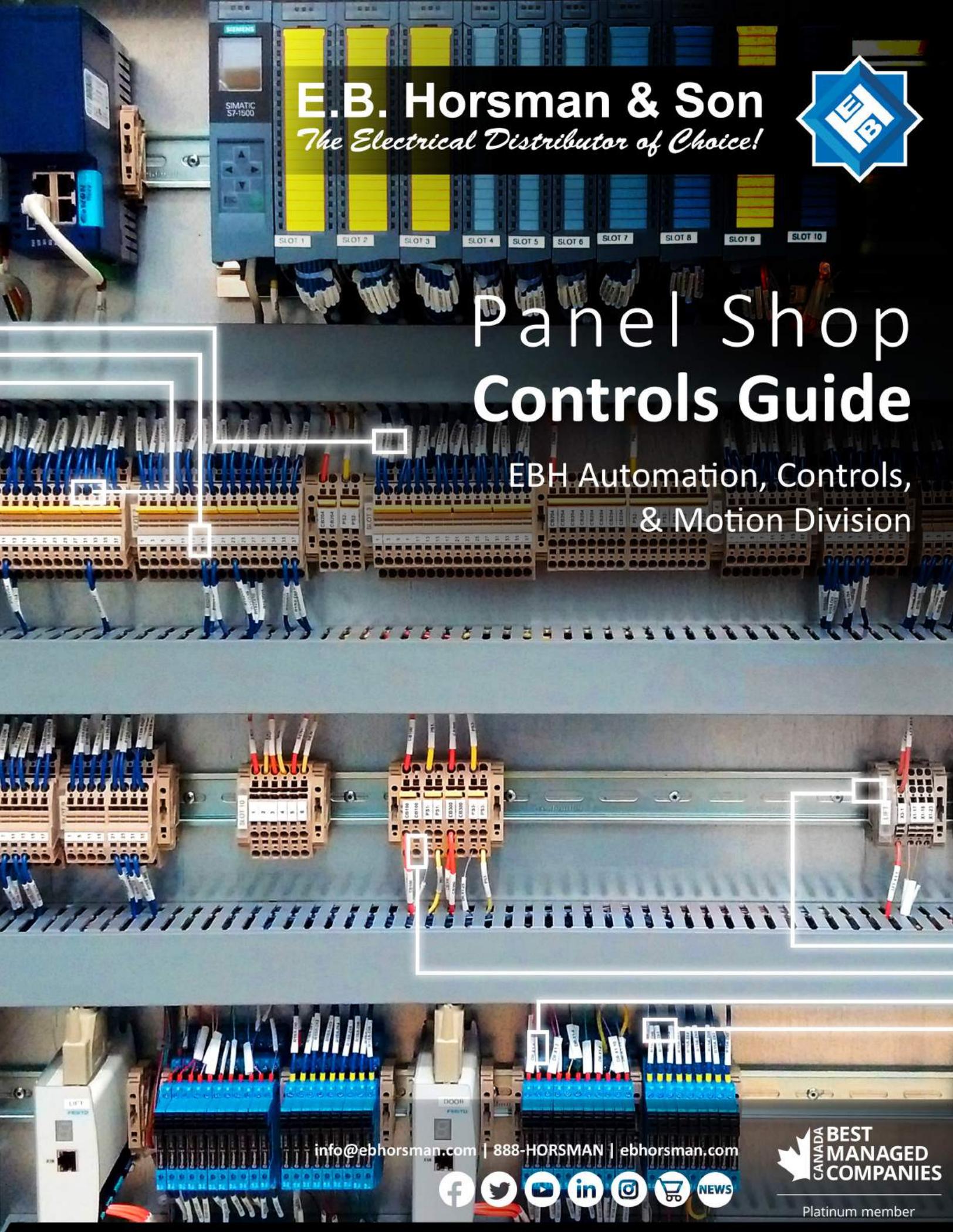


E.B. Horsman & Son
The Electrical Distributor of Choice!



Panel Shop Controls Guide

EBH Automation, Controls,
& Motion Division



info@ebhorsman.com | 888-HORSMAN | ebhorsman.com



**CANADA BEST
MANAGED
COMPANIES**

Platinum member



About our Automation, Controls & Motion Specialty Division

Overcome difficult industrial automation, control, and motion challenges with the help of our specialized team. Our technical expertise, strong supplier partnerships and extensive branch network for logistics, inventory and application support can help take you all the way from specifications and design support to delivery. We have one of the largest teams for automation, controls, & motion amongst full line electrical wholesalers in Western Canada.

- ***Specifications and design support***
- ***Product Selection Recommendations***
- ***Quotation***
- ***Inventory Support & Supply Management***

When dealing with industrial controls, our specialists can present a full package to panel integrators, contractors, OEMs, and end users with the diverse product lines we carry: motor controls (breakers, motor starters, overloads, contractors, and soft starters), power distribution products, power supplies, and enclosures are just a few. We also help administer technical assistance on all our products during installation and implementation to ensure our customers are left feeling satisfied.

- ***Delivery Logistics***
- ***Training***
- ***Post-Sale Technical Support***

3 Rittal Enclosures

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13 Circuit Breakers & Transformers

14 Line Reactors & Relays

15 Motor Starters





ENCLOSURES

RITTAL ENCLOSURE OVERVIEW

Rittal manufactures the world's leading industrial and IT enclosures, racks and accessories, including high efficiency, high density climate control and power management systems for industrial, data center, outdoor and hybrid applications. Rittal's off-the-shelf standard, modified standard and custom-engineered products are known throughout the world as high quality, affordable solutions for practically any industrial or IT infrastructure application - from single enclosures to comprehensive systems.



TS8 FREESTANDING ENCLOSURES

- Exterior surfaces are easily removable to access interior components
- Available in 304 & 316L stainless steel
- Door can hold up to 200 pounds and can quickly be removed
- Available in five design configuration including non-disconnect, disconnect, NEMA 3R, NEMA 4, and floor mount



DID YOU KNOW

With Rittal Configuration Systems

You can select your enclosure, add your accessories, generate a drawing, csv file and a Bill of Material by using Rittal's online tool configuration tool.

Use their energy efficiency calculator to determine your cooling unit requirements.

Visit Rittal.com to learn more.



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NEWS



ENCLOSURE ACCESSORIES

TOPTHERM ENCLOSURE FILTER FAN

- Fan-and-Filter Units dissipate head loads in a cost effective manner
- Fast assembly – Super-fast clip-on mounting
- Air throughput from 20 m/h to 700 m/h
- Toolless assembly
- IP 54 as standard
- Quick filter mat changes
- Minimal installation depth
- Optimum airflow distribution inside the enclosure facilitating hot spot removal
- Less noise



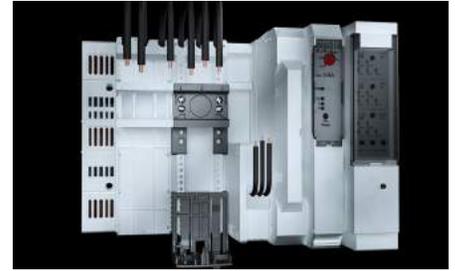
BLUE e+ AC UNITS

- Built into the side, rear, or door of the enclosure
- Protect the temperature-sensitive components of enclosures
- Constant temperature inside enclosure
- Active speed-governed circuit components for demand-based cooling
- Component-friendly cooling for long service life
- Remote monitoring via Ethernet
- Ideal for environments ranging from -20°C to +60°C
- UL Type 12 and 3R



BUSBAR SYSTEMS: RILINE COMPACT

- A completely covered busbar system up to 125 A
- Easy combination of different switching devices
- Tool-free assembly through plug-in and spring clamp system
- Complete top-mounting of the system
- High level of safety



BUSBAR SYSTEMS: PLS BUSBAR SYSTEM

- Rated current up to 800 A/1600 A
- 60 mm bar centre distance
- Ensures maximum shock-proofing
- Flexible positioning of supports for easier planning
- Suitable for top-mounting



MAXI-PLS BUSBAR SYSTEM

- Rated current up to 2500 A or 4000 A
- Square profile cross-section busbar
- Designed to fit TS8 freestanding enclosures



ENCLOSURE FOLDING TRAY FOR SERVICING

- Fold-out for keyboard, mouse, and document
- For installation in 600 and 800 mm wide doors or 482.6 mm (19") swing frames and enclosures



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WIRING DUCT

- Solid, wide slot, narrow slot and round hole versions
- Widths 0.75" - 6" and depths 1" - 5"
- Optional adhesive back for quick, hassle-free installation
- Complete selection of accessories and tools for installation
- Provided with mounting holes
- Lead-free construction

Weidmüller 

Thomas&Betts
A Member of the ABB Group

ABB

PANDUIT™



CABLE, CONNECTORS, LUGS, & GROUNDING

- Ferrules
- Insulated Cable Lugs
- Lugs
- Grounding

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A Member of the ABB Group

ABB

PANDUIT™



WEIDMÜLLER MARKER SYSTEM

- A printer for all jobs
- Thermal transfer printer for continuous materials, fabric and polyester labels, shrink sleeves and PLC labels
- Interfaces with Weidmüller's software M-Print PRO and intuitive touch display
- Ideal for small and medium print volumes
- Virtually maintenance-free
- Excellent readability (resolution: 300 dpi)
- Modular perforation for easy installation

Weidmüller 



BRADY LABELLING & WIRE MARKING

- Printers designed for the electrical industry
- Industrial label printers
- Portable/Mobile
- Bench top
- Sign & label printers

 **BRADY**





ENCLOSURE LIGHTING

SIGNAL TOWER LIGHTS

Multi-segment LED tower lights give machines a voice, conveying critical information in a clear, visual manner. AC and DC voltage, fourteen color options, six audible alarm styles, multiple intensity levels, three connection types and optional wireless or IO-Link communication provides virtually limitless possibilities in both preassembled and field configured units.



TOUCH BUTTONS AND PICK-TO-LIGHT

Banner is the leader in ergonomic, visual and sealed operator touch buttons for industrial applications. Since Banner Touch Buttons can have multiple colors and I/O capabilities, they can replace several conventional buttons, making them ideal in lean manufacturing environments.



Pick-to-light sensors help industrial automation manufacturers reduce the risk of error in the assembly process, boosting product quality and reducing cost.

INDICATORS

Banner's Indicators offer a wide variety of bright, highly visible models ranging from daylight visible to multiple colors. Indicators have a rugged design for long-term use and require no additional protective box. Flexibility in design, size and mounting provides a unique solution for many applications.



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NEWS



TERMINAL BLOCKS & BARRIERS

KLIPPON® CONNECT A-SERIES MODULAR TERMINAL BLOCKS

- Integrated push-button clamp actuator for safer wiring and simple handling
- Uniform integrated test point for easy continuity and potential/current checks
- Current identification area on jumpers
- Spring-loaded mounting foot to compensate for rail size fluctuations

Weidmüller 



INTRINSIC SAFETY ISOLATED BARRIERS: K-SYSTEM

For Explosion Protection, consider Isolated Barriers from P+F's K-System interface family. K-System offers an extensive range of intrinsic safety interface modules for many signals and applications - from simple isolators to highly functional modules.

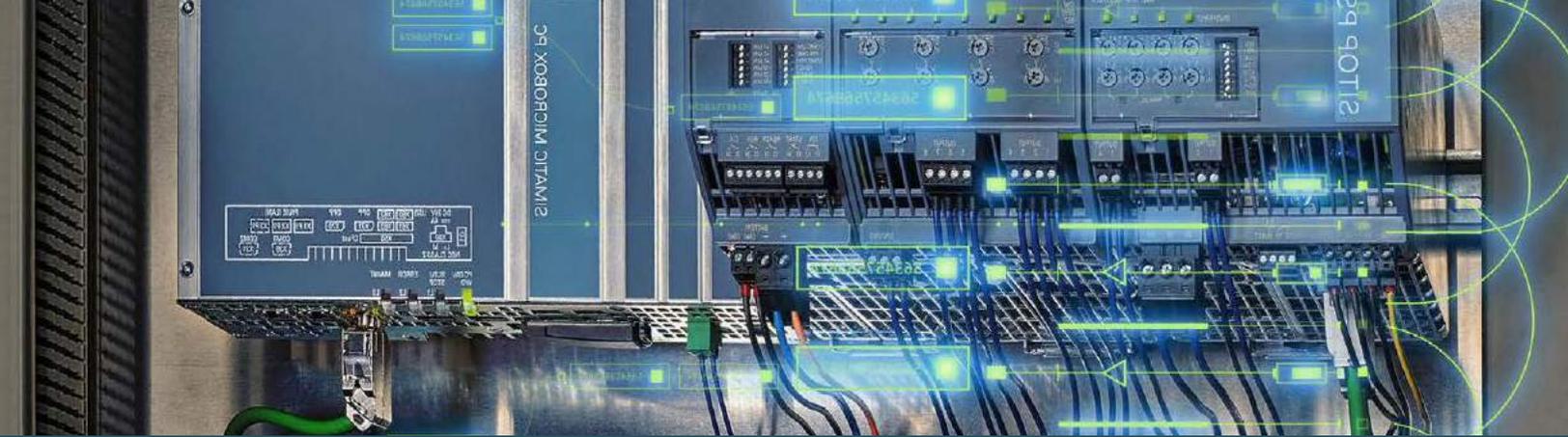
 **PEPPERL+FUCHS**



Measurement & Controls Joins E.B. Horsman & Son

On October 1st, 2018, Measurement & Controls (MCL), expert provider of industrial automation, process instrumentation, and specialty valves, has joined E.B. Horsman & Son, the largest independently owned electrical distributor in Western Canada.

The acquisition doubles the size and expertise of both companies' Process, Automation and Controls (PAC) technical divisions across Western Canada.



POWER SUPPLIES

SITOP COMPACT POWER SUPPLIES

- Integrated push-button clamp actuator for safer wiring and simple handling
- Uniform integrated test point for easy continuity and potential/current checks
- Current identification area on jumpers
- Spring-loaded mounting foot to compensate for rail size fluctuations;

SIEMENS
Ingenuity for life



SELECTIVITY MODULE POWER SUPPLIES

- Full range switched-mode power supply units provides a controlled 24 V DC power supply and other input voltages
- Unique spectrum of DC UPS and add-on modules extends the power supply range to protect the 24 V supply against problems on the main and on the DC side
- Efficiency rating of up to 95%
- Small mounting surface thanks to its slim design
- Wide-range input for 85 V to 264 V AC or 110 V to 300 V DC
- Up to 28 % energy savings compared to similar units
- Low energy consumption during no-load or standby operation
- Adjustable output voltage
- Temperature range from -20 °C to +70 °C

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NEWS



SCALANCE ETHERNET SWITCHES

INDUSTRIAL UNMANAGED ETHERNET SWITCHES

- XB-000/100 Industrial Ethernet switches are compact, unmanaged switches with up to 8 ports
- Industrial Ethernet line and star topologies
- Diagnostics on the device by means of LEDs (power, link status, data communication)
- RJ45 sockets with retaining sleeve for additional strain relief, designed for PROFINET-compliant IE FC RJ45 plug
- Integrated auto-crossover function makes the use of uncrossed connection cables possible
- Automatic detection and negotiation of the data transmission rate by means of auto-sensing and auto-negotiation function

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INDUSTRIAL MANAGED ETHERNET SWITCHES

- X-200/300 Industrial Ethernet Switches are managed with up to 24 ports
- The managed switches of the SCALANCE X-200 product range are very well suited for the setup of line, star, and ring topologies (10/100 Mbps)
- Redundant ring topologies can be established via the SCALANCE X-200 switches
- On the failure of a transmission link or a SCALANCE X-200 switch in the ring, the transmission path is reconfigured within 200 ms
- 8, 16, 24 electrical port options
- 4, 6, 12 electrical port with optical options

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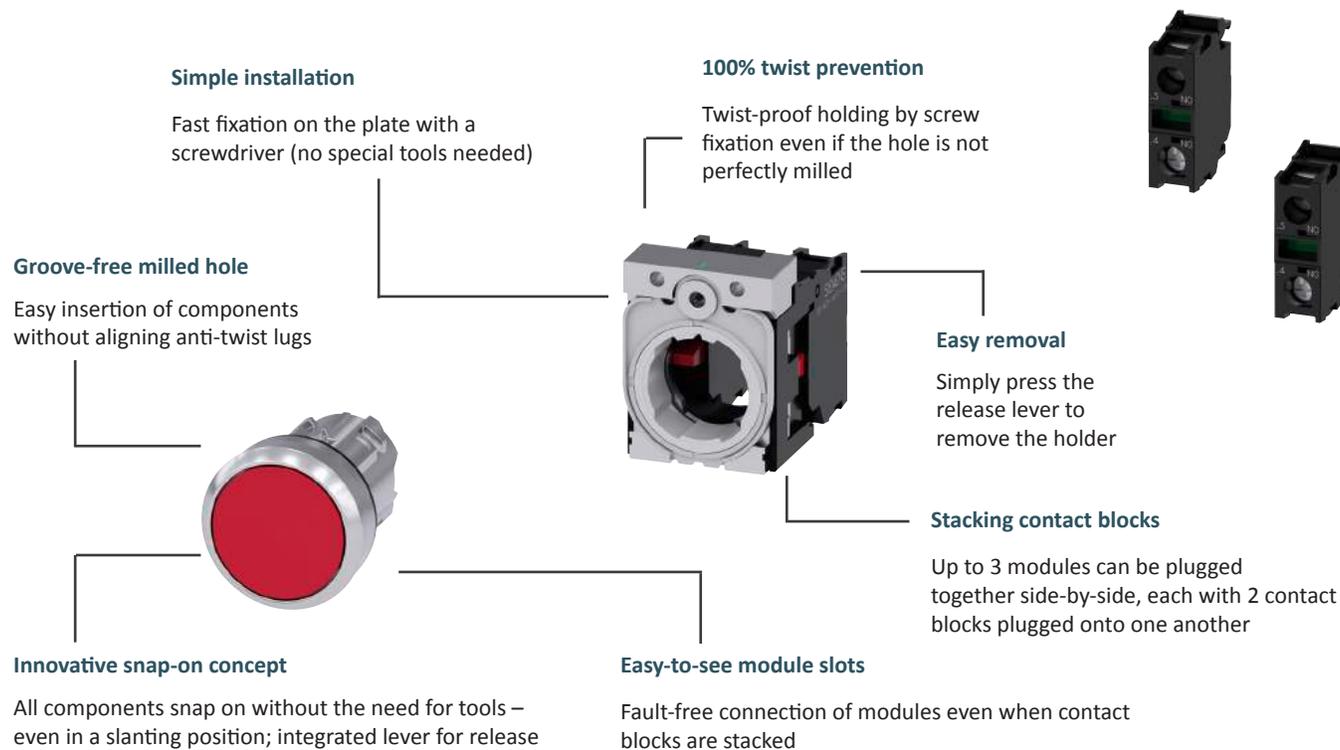




PILOT LIGHTS, PUSH BUTTONS, & SWITCHES

MODULAR DESIGN

- Order the actuator, the holder and the LED contact module as separate items
- Freedom to combine products ensures maximum flexibility, as you can stock them individually as required



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NEWS



FUSE HOLDERS & FUSES

US3J & US6J ULTRASAFE™ CLASS J FUSE HOLDERS

- The US3J accommodates 30A class J or IEC cylindrical 22x58mm fuses
- The US6J accommodates 60A class J or IEC cylindrical 27x60mm fuses
- Finger-safe IP20 protection
- Optional indicator lights
- DIN-rail mount
- Compact footprint
- Quick, easy fuse change
- Volts : 600VAC/DC
- SCCR : 200kA



LOW VOLTAGE DISCONNECT SWITCHES

- Fusible Switches: 25A to 1250A, 690V. Suitable for all locations in low-voltage networks
- Non-Fusible Switches: 16A to 4000A, 690V. Higher power ratings than competition, suitable for many applications without de-rating
- Meets global requirements (UL508, UL98, and IEC standards) products for AC and DC applications
- A wide assortment of handles, shafts, and accessories are available to accommodate any installation requirement



MERSEN

- UL / CSA / IEC Low Voltage General Purpose Fuses, Fuseholders, and Power Distribution Blocks





CIRCUIT BREAKERS & TRANSFORMERS

MINIATURE CIRCUIT BREAKERS

- 5SJ4 Miniature circuit breakers can be used as “branch circuit protection”
- UL 489 from 0.3 to 63A
- Suitable for branch circuit and feeder protection applications
- Visible indicator for ON and OFF/Trip
- Standard DIN rail mounting (35 mm)



HPS SPARTAN TRANSFORMER

- Ideally for general, industrial and light duty loads
- For applications where high inrush or machine tool duty are not necessary
- Standard molded terminal blocks or primary and secondary up to 3000VA (30A) units
- Bolted core construction & Bolt-on mounting brackets
- All units supplied with primary and secondary voltage links jumpers (increase range of application per unit)



MOLDED CASE CIRCUIT BREAKERS

- Exclusive adjustable current rating without the need for rating plugs
- Microprocessor based RMS sensing
- Various trip options such as thermal magnetic trip, electronic trip, electronic trip with metering, electronic trip with metering and communications
- LI, LSI, LIG, LSIG trip functions available
- 100% ratings and current limiting available
- Up to 200kA rating @ 480VAC, and 100kA @ 600VAC



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LINE REACTORS & RELAYS

HPS CENTURION R

The new HPS Centurion R reactor provides a unique blend of improved performance and reliability while reducing the product footprint. HPS Centurion R reactors deliver protection for your motors and drives. They are available in standard ratings from 0.5 HP (373 Watts) to 1000 HP (745 kilowatts), up to 600 V (690 V with de-rating) and are fully compliant with UL, CSA, CE, IEC, and NEMA standards.

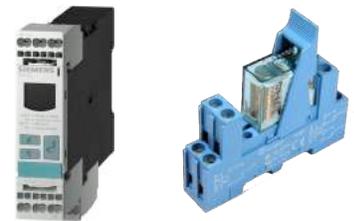
- Minimization of harmonic distortion
- Mitigation of nuisance tripping
- Reduced line notching
- Extended life of switching components and motors
- Reduced audible motor noise and motor operating temperature



RELAYS

Whether you require isolating modules, compact or monitoring relays, narrow coupling relays, plug-in style relays, low-noise power relays or interface converters – we have a variety of options for you from our key Supplier Partners.

- Monitoring Relays
- Intrinsic Safety Barriers
- Signal Conditioners
- Surge Protection
- Solid State Relays
- Timers
- Industrial Relays



MOTOR STARTERS

SIEMENS SIRIUS MOTOR CONTROL PORTFOLIO

Your Complete Motor Solutions all in one place:

- Overloads
- Circuit Breakers
- Contactors
- Soft Starters



MELTRIC SWITCH-RATED PLUGS & RECEPTACLES

- Spring-loaded butt contacts
- Enclosed arc chambers
- Spring-assisted terminals
- All SWITCH-RATED devices (DSN, DS and DB) feature DECONTACTOR™ Technology
- Horsepower ratings
- Short circuit ratings up to 100 kA in fuse protected circuits
- UL & CSA switch-ratings



SIMATIC HMI BASIC & COMFORT PANELS

- High-resolution, dimmable widescreen displays from 4" to 12" (22" with Comfort panels) with 64,000 colors (16 million colors with Comfort Panels)
- Touch or key operation & viewing angles of up to 170°
- Integrated system card for automatic backups in Comfort panels
- PROFIBUS or PROFINET versions for process communication (Comfort includes PROFIenergy)
- Perfect interaction with the advanced controller SIMATIC S7-1200



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E.B. HORSMAN & SON COMPLETE INDUSTRIAL SOLUTIONS - AUTOMATION, CONTROLS, & MOTION
PROCESS INSTRUMENTATION - DATA COMMUNICATIONS
LIGHTING SOLUTIONS

BC Lower Mainland

Burnaby
3935 2nd Avenue
Burnaby, BC V5C 3W9
Tel: 604.292.4800

Langley
#101 - 20550 Duncan Way
Langley, BC V3A 7A3
Tel: 604.533.1275

Richmond
12360 Vickers Way
Richmond, BC V6V 1H9
Tel: 604.273.1981

Surrey
13055 80th Avenue
Surrey, BC V3W 3B1
Tel: 604.596.7111

NORTHERN BC

Dawson Creek
1121 97th Avenue
Dawson Creek, BC V1G 1N5
Tel: 250.782.4896

Prince George
2255 S. Quinn Street
Prince George, BC V2N 2X4
Tel: 250.563.0575

Terrace
5000 Pohle Avenue
Terrace, BC V8G 4S8
Tel: 250.635.6379

Williams Lake
527 S. MacKenzie Avenue
Williams Lake, BC V2G 1C8
Tel: 250.392.7795

BC INTERIOR

Cranbrook
Unit A 800 Industrial Road # 2
Cranbrook, BC V1C 4C9
Tel: 250.489.4591

Kamloops
B- 983 Camosun Crescent
Kamloops, BC V2C 6G1
Tel: 250.374.3191

Penticton
401 Okanagan Avenue
Penticton, BC V2A 3K1
Tel: 250.492.4032

Vernon
5203 24th Street
Vernon, BC V1T 8X7
Tel: 250.545.2191

VANCOUVER ISLAND

Campbell River
1030 B- 9th Avenue
Campbell River, BC V9W 4C2
Tel: 250.287.9265

Courtenay
2615 Moray Place
Courtenay, BC V9N 8A9
Tel: 250.334.0338

Duncan
5286 Polkey Road
Duncan, BC V9L 6W3
Tel: 250.748.3377

Parksville
1023 Herring Gull Way
Parksville, BC V9P 1R2
Tel: 250.954.1797

Victoria
816 Cloverdale Avenue
Victoria, BC V8X 2S8

ALBERTA

Calgary
Bay 17, 10551 50th Street SE
Calgary, AB T2C 3E3
Tel: 587.620.0020

Edmonton
7223 68th Avenue NW
Edmonton, AB T6B 3T6
Tel: 780.490.7740

SASKATCHEWAN

Saskatoon
134 - 815 66th Street
Saskatoon, SK S7P 0E6
Tel: 306.244.2200

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