

STARTCO® Newsletter

Fall 2007

www.startco.ca

PMA-60

New NEMA-3, IP53 panel-mount adapter for SE-601, SE-701, SE-703, and SE-704 Ground-Fault Monitors.



New Employee Joins Startco Sales Team

Startco Engineering Ltd. extends a big welcome to the newest member of the Startco Sales Team - Cory Anderson, EIT, Technical Sales. Welcome to Startco!



Arc-Flash Reduction During Maintenance

The MPU-32 Motor Protection Unit and the MPS Motor Protection System now feature a Reduced Overcurrent setting. These protective relays are able to store an additional sensitive overcurrent trip value with an instantaneous trip time. During maintenance procedures, this setting is quickly enabled through an external switch connected to the relay's digital input. By loading a more sensitive setting, exposure to a flash can be reduced.

Existing MPU-32 and MPS relays can be field upgraded using SE-FLASH software, and the firmware update file, both available at no charge from www.startco.ca.



A Safer 120/208-Vac System

Canadian Electrical Code C22.1-06 section 10-1102 allows the use of a neutral-grounding device on a system where line-to-neutral loads are served, provided the neutral conductors are properly insulated and the system trips on a ground fault, a grounded neutral, and a failure of the neutral-grounding device. The SE-502 Ground-Fault Ground-Continuity Detector can be used to resistance-ground 120/208-Vac systems and detect a ground fault and a grounded neutral. The SE-502 has a self-monitored internal neutral-grounding resistor that limits fault current to 100 mA. Use the SE-502 with an appropriate current-interrupting device to provide Class A GFCI personnel protection.



Shunt-Trip-Coil Integrity Monitoring

A failed (open) trip coil on a shunt-trip breaker is a hazard. An external protective relay would not be able to operate the breaker, possibly allowing a fault condition to persist with no means to de-energize the system. The MPS Motor Protection System, MPU-32 Motor Protection Unit, and FPU-32 Feeder Protection Unit can be used to continuously monitor the integrity of the shunt-trip coil and issue an alarm.

To monitor the coil, a small signal is passed through the trip coil into the digital input on the Startco relay. If the coil opens, the signal is removed from the digital input, causing a trip or alarm. A dedicated output contact can be used.



For details, refer to the following documents:
TI 13.8 Shunt-Trip-Coil Integrity Monitoring with an MPS
TI 16.6 Shunt-Trip-Coil Integrity Monitoring with an MPU-32/FPU-32

Neutral-Grounding-Resistor (NGR) Packages

Startco can supply NGR's in an enclosure including, or with space allowed for, an ER-series Sensing Resistor and an appropriate current transformer. A zigzag transformer can be included to allow resistance grounding of an ungrounded-delta or Y-connected transformer with an inaccessible neutral.



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AB-1406 to MPS Retrofit

Due to age, an end to factory repair and parts support, and advancements in motor protection, many facilities require a replacement for the Allen Bradley Bulletin 1406 Motor Protector. The MPS Motor Protection System is an excellent upgrade choice. While it can be programmed to simulate the AB-1406, it also adds protection, control, metering, data logging, and communications features. The similar modular design and terminal layout allow the MPS to be installed with minimal changes to existing wiring.

An adapter plate can be supplied to cover existing openings and to facilitate mounting the MPS Operator interface. The installation and programming procedure is described in TI 13.3 AB Bulletin 1406 to MPS Retrofit.



Startco Is Moving!

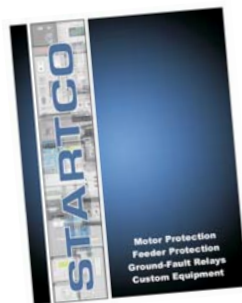
Due to tremendous demand for Startco protective relays and custom equipment, a larger facility is required. Ground has been broken at the new site and completion is expected by the summer of 2008.



New Product Catalogue

Startco has released the latest product catalogue, containing new products, updated information, and expanded circuit diagrams.

If you would like a copy, please visit www.startco.ca/contact/order/.



Upcoming Events

PowerGen

December 11-13, 2007
New Orleans, LA



EGC

January 29-31, 2008
Bismarck, ND



NETA PowerTest

March 17-20, 2008
New Orleans, LA



IEEE Electrical Safety Workshop

March 18-21, 2008
Dallas, TX



Expomin 2008

April 17-20, 2008
Santiago, Chile



IEEE PES Transmission & Distribution

April 22-24, 2008
Chicago, IL



CUEE

May 13-14, 2008
Toronto, ON



Expo Wesco

May 29, 2008
Sept-Isles, PQ



WMEA

June 11-13, 2008
Edmonton, AB



IEEE PPIC

June 22-27, 2008
Seattle, WA



QME Queensland Mining Exhibition

July 22-24, 2008
Mackay, QLD, Australia



MINExpo 2008

September 22-24, 2008
Las Vegas, NV

IEEE IAS Electrical Safety Technical

and Mega Projects Workshop
November 19-21, 2008
Edmonton, AB



WMEA

November 19-21, 2008
Denver, CO

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