

New E-T-A SMART Power Relay offers three functions in one space-saving unit for automation industry

Richmond Hill ON – October 2011 – E-T-A Circuit Breakers announces a new SMART Power Relay that provides reliable switching, protecting and monitoring of PLC-controlled resistive, inductive or lamp loads in DC 24V systems. The new plug-in SMART Power Relay E-1048-S6xx offers comprehensive performance to protect against overload, short-circuit and wire break that can result in costly damages and long downtimes.

The E-1048-S6xx is an optimized purely electronic relay offering protective monitoring and diagnostic functions. It features wear-free operation, permanent monitoring of the load circuit in case of wire break and provides reliable protection against short and overload of loads and load lines. Available versions are rated from 0.5A to 4A in a space-saving width of only 12.5 mm. The new relay model is suitable for a wide range of operating temperatures up to +60° C without derating (ie: without performance reduction).

The integral time/current characteristic has the E-1048-S6xx respond similarly to a thermal circuit breaker for equipment protection with additional remote disconnection and reconnection. In the event of a short circuit or overload in the load circuit, the

device provides reliable current limitation and quick disconnection. The current status is indicated by means of two LEDs. In the event of a failure, the device has a double failure indication: visually by means of a red LED and electronically by an opto-coupler in the signal output.

Its triple functionality as an electronic relay, an overcurrent protection device and a diagnostic device makes the E-1048S6xx a powerful replacement for a whole series of plug-in connections, helping to avoid possible failure sources.

Typical applications include the switching of motors, magnetic valves and signaling lamps in process control or as a coupling component for programmable control units in automation. Outputs up to 24V/4A can be enhanced to allow usage of standard sub-assemblies with small output current ratings in the PLC.