



Electrical
Safety
Authority

Field Evaluation Newsletter

June 2004

Working to Better Meet Your Needs:

- ESA's Field Evaluation dedicated Customer Service Centre has moved to: **1 Terence Matthews Dr. Suite 130, Ottawa, Ontario, K2M 2G3**. You can reach the Centre to request or follow-up on Field Evaluation Services at: Phone **1-800-559-5356** or **(613)271-1489**; or Fax at **1-800-559-5358** or **(613) 271-6441**; or electronically at field.evaluation@electricalsafety.on.ca.
- ESA offers same day processing on all applications received before 2:00 p.m. – remember to *include your account # on all correspondence*.
- *Please continue forwarding your invoice payments to the Accounts Receivable Department, located at 278 Pinebush Rd., Cambridge, Ontario N3C 2V3.*
- Personalized application forms are available to streamline your requests –contact our Customer Service Centre.
- ESA has a licensing agreement to apply CSA labels that are nationally recognized.
- ESA has applied to Standards Council of Canada for Accreditation

Update – Technical Requirements:

New Fuse Offers Branch Circuit Protection and Electronic Drive Protection

Motors or conductors need "Branch Circuit" overcurrent protection. With solid state drives the designers like to use semi-conductor fuses that are certified as specialty fuses (ie., not branch circuit). The difference is that specialty semi-conductor fuses do not clear on low level overloads. Therefore, our inspectors ask you to add a fuse that offers branch circuit protection. Most branch circuit fuses are not suitable for semi-conductors so then 2 fuses are needed.

New HSJ fuses have been engineered specifically for the operating characteristics of electronic motor controllers, featuring high-speed performance (low let-through energy, or I_t) and overload handling capabilities. They are approved branch circuit protection devices.

In one convenient Class J package, the HSJ fuse provides advanced protection for electronic motor controllers by delivering both the branch circuit protection required and the high-speed protection necessary to protect sensitive internal electronics of drives and soft-starters. These fuses are capable of clearing overloads down to 135% of their rating and offering a very low I_t . HSJ fuses are easily coordinated with most drives and soft-starters and, work seamlessly with existing Class J fuse blocks and holders.

At the moment we are only aware of the fuses being available from Ferraz Shawmut.

For further details and complete product specifications, please request Ferraz Shawmut's new full-color High-Speed Class J Fuse brochure by sending an e-mail to info@ferrazshawmut.com, or download the brochure as a PDF file directly at ferrazshawmut.com.

If you require additional copies of this newsletter please contact our Customer Service Centre.

Mike Moore

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