



Product Type Approval Certificate

Full

This certificate is issued to:

Supplier name and address:	Mitsubishi Electric Australia and NHP 348 Victoria Road, Rydalmere, NSW 2116 (Mitsubishi Electric Australia) and 30-34 Day St N, Silverwater NSW 2128 (NHP)
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In respect of:

Manufacturer:	Mitsubishi Electric Australia (1500V DCCB type BHF-30I) and Microelectrica Scientifica (UMLE relay)
Place of manufacture:	Marugame, Japan (DCCB) & Buccinasco, Italy (relay)
Product description:	<ol style="list-style-type: none">1500V Mitsubishi DCCB, type BHF-30I (combination of non-imported DCCB circuitry added to a fully imported Mitsubishi truck)1500V DC feeder protection relay<ul style="list-style-type: none">➤ 90-250V dc, compatible with a type 2 power supply➤ Single bus V➤ Current and voltage input 0 – 20 mA➤ Relay Type: U-MLEs-Ts (touch screen)➤ Version PLV850➤ Firmware version: 0832.35.01.A <p>NHP item code: UMLESPLSTS22111</p>
Use approved for:	1500V Mitsubishi Feeder DCCB, type BHF-30I with protection incorporating Inter trip and DC protection functions for use in the RailCorp electrical network.
Conditions of approval:	Type approval is valid for applications as detailed on the following set of General drawings: EL 0671352, Rev B – schematic diagram EL 0671353, Rev B – wiring diagram EL 0671354, Rev B – assembly details EL 0671355, Rev B – fuse mounting details Local Instruction, LI D 77603 – Maintenance Instruction Inter-trip Protection Test

	Local Instruction, LI D 77601 – Maintenance Instruction – Data Retrieval
Limitations:	N/A

Evaluating rail transport operator

Name:	Terry Niemeier, Asset Standards Authority
Position:	Lead Electrical Engineer, Asset Standards Authority, Transport for NSW
Signature:	<i>T Niemeier</i>
Date:	19/12/2019

Product approval pack reference number: fA1208920