



# Product Type Approval Certificate

## *Restricted*

This certificate is issued to:


|                                   |   |
|-----------------------------------|---|
| <b>Supplier name and address:</b> | Schneider Electric Australia Pty. Ltd<br>78 Waterloo Road, Macquarie Park, New South Wales 2113 |
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In respect of:

|                                |   |
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| <b>Manufacturer:</b>           | Schneider Electric  |
| <b>Place of manufacture:</b>   | 35 Rue Joseph Monier, 92500 Rueil Malmaison, France   |
| <b>Product description:</b>    | <p>Switchgear model: Premset<br/>11kV compact modular vacuum switchgear with Shielded Solid Insulation System (SSID), rated short time withstand current 20kA for 4 sec, complete with:</p> <ul style="list-style-type: none"><li>• 630A busbar</li><li>• Circuit breakers, model D06H (630A feeder, 630A bus-coupling, 630A bus-cable tie, 630A system transformer and 630A distribution transformer)</li><li>• Network load switch, model I06H (630A feeder)</li><li>• AFLR internal arc classification</li><li>• SCADA controlled switchgear</li><li>• 11kV voltage transformers (busbar &amp; system transformer)</li><li>• Separate protection and control panel (PCP)</li></ul> <p>manufactured to ASA standard T HR EL 01001 SP</p>        |
| <b>Use approved for:</b>       | Use on the RailCorp 11kV ac network   |
| <b>Conditions of approval:</b> | <ul style="list-style-type: none"><li>• For use in existing locations with space constraints such as station substations</li><li>• Raychem RSTI-58xx cable termination kits shall be used (need to match the core insulation diameter of the type approved cable)</li><li>• Raychem cable termination kits shall be installed as per TE Installation Instruction EPP-0982-1/11</li></ul> <p>Typical set of drawings (Redfern No.2 station SS):<br/>EL 582046 11kV switchboard general arrangement<br/>EL 582103 11kV switchboard interconnection diagram<br/>EL 0582047 11kV switchboard legend<br/>EL 582080-89 11kV bus tie ACCB schematic<br/>EL 582070-79 11kV feeder 515 ACCB schematic<br/>EL 582090-101 11kV feeder 516 ACCB schematic</p> |

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|                     | <p>EL 582050-59 11kV feeder 620 ACCB schematic</p> <p>EL 729453 11kV VT panel layout</p> <p>EL 582048-49 11kV VT schematic</p> <p>EL 582060-69 11kV/415V distribution transformer ACCB schematic</p> <p>EL 0729459-60 11kV protection and control panel door layout</p> <p>EL 729458 11kV feeder 516 protection and control panel layout</p> <p>EL 729457 11kV bus tie protection and control panel layout</p> <p>EL 729456 11kV feeder 515 protection and control panel layout</p> <p>EL 729455 11kV/415V auxiliary transformer protection and control panel layout</p> <p>EL 729454 11kV feeder 620 protection and control panel layout</p> <p>EL 0729449-729452 11kV switchboard termination diagram</p> |
| <b>Limitations:</b> | <p>For use in existing locations with space constraints. Future use of the switchgear will require:</p> <ul style="list-style-type: none"> <li>• Evidence of design demonstrating space constraints</li> <li>• Approval from the Lead Electrical Engineer, ASA</li> </ul>   |

## Evaluating rail transport operator

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|-------------------|---|
| <b>Name:</b>      | Terry Niemeier, Asset Standards Authority   |
| <b>Position:</b>  | Lead Electrical Engineer, Asset Standards Authority, Transport for NSW              |
| <b>Signature:</b> |  |
| <b>Date:</b>      | 20/08/2019  |

**Product approval pack reference number:** qA524987