



Product Type Approval Certificate

Full

This certificate is issued to:

Supplier name and address:	Tyree Transformers Tyree Place, Braemar NSW 2575, Australia
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In respect of:

Manufacturer:	Tyree Transformers
Place of manufacture:	Tyree Place, Braemar NSW 2575, Australia
Product description:	33/11kV, Dyn1, 7.5/9.25MVA, ONAN/ONAF, 33kV and 11kV is cable connected, complete with OLTC manufactured to TfNSW standard EP 02 10 00 01 SP version 2.1 and TN 046:2016. Two configurations as follows: <ol style="list-style-type: none">1. Tapchanger control is implemented in a separate AVR panel for parallel operation of transformers.2. Tapchanger control is located on the transformer.
Use approved for:	Use on the RailCorp 33kV and 11kV network.
Conditions of approval:	Type approval is valid for the power transformers as detailed on the following set of general drawings: <i>Configuration 1:</i> EL 0456958 Arrangement Drawing (Rev B) EL 0456959 Foundation Drawing (Rev B) EL 0456960 Rating Plate (Rev B) EL 0496961 Parts List (Rev C) EL 0456962 Schematic Diagram (Rev B)

	<p>EL 0456963 Schematic Diagram (Rev B) EL 0456964 Schematic Diagram (Rev C) EL 0456965 Schematic Diagram (Rev B) EL 0456966 Terminal Layout (Rev B) EL 0456976 Power Circuit – Tap Schematic (Rev B)</p> <p>Configuration 2: EL 0704550 Arrangement Drawing (Rev B) EL 0704551 Foundation Drawing (Rev B) EL 0704552 Rating Plate (Rev B) EL 0704553 Parts List (Rev B) EL 0704554 Schematic Diagram (Rev B) EL 0704555 Schematic Diagram (Rev B) EL 0704556 Schematic Diagram (Rev B) EL 0704557 Schematic Diagram (Rev B) EL 0704558 Schematic Diagram (Rev B) EL 0704559 Terminal Layout (Rev B) EL 0704560 Power Circuit – Tap Schematic (Rev B) EL 0704561 Marshalling Cubicle Layout (Rev B)</p>
Limitations:	N/A

Evaluating rail transport operator

Name:	Lidija Dumbaloska
Position:	Director Energy Networks & Systems, Asset Management, Transport for NSW
Signature:	<i>L. Dumbaloska</i>
Date:	29 th September, 2021

Product approval pack reference number: qA696094