

# Product Type Approval Certificate

*Full*

This certificate is issued to:

<b>Supplier name and address:</b>	Tyree Transformers Tyree Place, Braemar NSW 2575, Australia
-----------------------------------	--

In respect of:

<b>Manufacturer:</b>	Tyree Transformers
<b>Place of manufacture:</b>	Tyree Place, Braemar NSW 2575, Australia
<b>Product description:</b>	66/11 kV, Dyn1, 3MVA, ONAN, 66kV and 11 kV is cable connected, complete with OLTC manufactured to TfNSW standard T HR EL 02001 SP version 1.0.
<b>Use approved for:</b>	Use on the heavy rail 66 kV and 11 kV network.
<b>Conditions of approval:</b>	Type approval is valid for the power transformers as detailed on the following set of general drawings:  EL 0841699 Arrangement Drawing (Rev B) EL 0841700 Foundation Drawing (Rev B) EL 0841701 Rating Plate (Rev B) EL 0841702 Parts List (Rev B) EL 0841703 Transformer Protective Connection Diagram (Rev B) EL 0841704 240/415 V AC Schematic Diagram (Rev B) EL 0841705 Winding & Oil Temperature Schematic Diagram (Rev B)

	EL 0841706 Voltage Regulator Connection Diagram (Rev B) EL 0841707 ABB Motor Drive Connection Diagram (Rev B) EL 0841708 Marshalling Cubicle Terminal Layout (Rev B) EL 0841709 Marshalling Cubicle Arrangement (Rev B) EL 0841710 ABB Tapchanger Logic Diagram (Rev B) EL 0841711 ABB Tapchanger Schematic (Rev B) EL 0841712 ABB Tapchanger Schematic (Rev B) EL 0841713 ABB Tapchanger Schematic (Rev B) EL 0841714 ABB Tapchanger Schematic (Rev B) EL 0841715 ABB Tapchanger Schematic (Rev B) EL 0841716 ABB Tapchanger Schematic (Rev B)
<b>Limitations:</b>	N/A

## Evaluating rail transport operator

<b>Name:</b>	Nick Giannoulis
<b>Position:</b>	A/Director Energy Networks & Systems, Asset Management Branch, Transport for NSW
<b>Signature:</b>	<i>N Giannoulis</i>
<b>Date:</b>	15 <sup>th</sup> December, 2022

**Product approval pack reference number (objective):** qT796057