

Isolation Transformer Assemblies for Network Rail and LUL

Blakley Electrics manufactures a series of double wound, 1:1 ratio transformer assemblies to provide isolation between DNO and traction/signalling earthing systems used within the rail industry. The assemblies are designed for floor-standing applications and are suitable for either trackside or switch-room locations. Specific transformers in the range of 1 kVA to 50 kVA are approved by Network Rail, Certificate of Acceptance PA05/04648 refers. LUL compliant assemblies are also available for installation in Section 12 designated locations.



Network Rail 10 & 30kVA Isolation Transformers



LUL 40kVA Isolation Transformers

Enclosure

Enclosures are floor standing, fabricated from grade 316L stainless steel or mild steel, vented to IP23 or non-vented to IP55. Mild steel enclosures can be finished in a range of durable paint finishes (including Section 12 approved) or they can be hot dip galvanized. Enclosures can incorporate external primary and secondary chambers to house any required switchgear or to accept large or oversized cables. Each chamber offers a side hinged, padlockable, gasketed door with quick release fasteners and bottom cable entry via a removable gland plate.

Transformers

Single or three phase, double wound, constructed to BS EN 61558 Parts 1 & 4. Transformers for Network Rail comply to L2/NR/SIG/30007 and transformers for London Underground incorporate Class 'F' insulation materials.

Ratings

Continuously rated at 1, 2, 3, 5, 10, 15, 20, 25, 30, 35, 40, 45 or 50kVA.

Voltages

Primary Voltages: 230V single phase or 400V three phase

Secondary Voltages: 230V single phase or 400V three phase

Three-phase winding connection and earthing arrangement to be specified at time of enquiry.

Options

Switchgear

Primary switchgear: Isolator (switch disconnecter), MCB, MCCB or Switch Fuse

Secondary: MCB, MCCB or Switch Fuse.

Transformer Tappings

Multiple tapped primary or secondary windings can be provided to accommodate a variation in supply voltage.

Tap Changing Switch

A tap changing switch can be provided to enable manual switching between tappings on the primary or secondary windings. Access to the externally positioned tap changing switch is restricted by a padlockable cover.

Inrush Current

Network Rail approved transformers to PA05/04648 have an inrush current of less than 5 times full load current. Other transformers in the range can have a low inrush if advised at time of enquiry.

THE POWER PROFESSIONALS

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THE COMPANY RESERVES THE RIGHT TO CHANGE PRODUCTS WITHOUT PRIOR NOTICE.



Cert. No. 902091

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