



Technology Introduction Group  
Network Rail  
Floor 5, 40 Melton Street  
London. NW1 2EE

## Certificate of Acceptance

Certificate No: PA05/04648 Issue: 3 Date: 18/02/2011  
Effective date: 18/02/2011 Page 1 of 5

<b>Product:</b>	Isolating Transformer range 1 to 50kVA Single or Three Phase for incoming power supplies
<b>Manufacturer:</b>	Blakley Electric Ltd 1, Thomas Road Optima Park Crayford Kent DA1 4GA

*The product above is accepted for use on railway infrastructure for which Network Rail is the Duty Holder (as per the ROGS regulations) within the defined Scope of Acceptance and any specific conditions in the certificate. Where the product is to be used as part of infrastructure for which NR is not the duty holder (e.g. Leased station), this certificate may be taken as evidence that the product is compatible with NR infrastructure (within the Scope of Acceptance), however it shall not absolve the sponsor from complying with any product acceptance requirements of that duty holder before committing that product to use.*

*Failure to abide by the certificate requirements may lead to acceptance by Network Rail becoming invalid.*

### Scope of Acceptance

To provide isolation between DNO and traction/signalling earthing systems

### Specific Conditions:

Refer to the pages which follow for the product configuration and detailed conditions of use.

Authorised by:

Richard Stainton

Professional Head - Electrical Power Engineering

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## **SPECIFIC CONDITIONS**

### **MANUFACTURER**

- Ensure that the latest relevant standards/ drawings are available and worked to, and that the product is compliant.
- Notify Network Rail Technology Introduction Group:
  - Within 48 hours, of any deficiencies affecting the product quality, functionality and safety integrity of the product (including corrective action undertaken or proposed).
  - Of any intended change to the accepted product. Changes include:
    - a) a change to the product configuration (to the actual product or its application);
    - b) a variation to or addition of manufacturing locations or processes; and
    - c) a change in the name or ownership of the manufacturing company.
- Provide all documentation in the English (UK) language.
- Provide operating and maintenance manuals to purchasers/users of the product.
- Provide training manuals and an appropriate level of training to purchasers/users of the product.

### **USER CLAUSES**

- Transformers are limited to 5 x inrush current in accordance with NR/L2/ELP/40045
- Users of the product are responsible for ensuring compliance with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Technology Introduction Group.
- Users are responsible for ensuring that the product is fit for purpose and that the application of use complies with the scope of acceptance. Any product defect should be taken up immediately with the supplier. If the defect is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway this shall be reported in writing to Network Rail Technology Introduction Group.
- Anyone becoming aware of a change to the product configuration (to the actual product or its application) should inform Network Rail Technology Introduction Group in writing.
- All staff required to use the equipment shall be suitably trained and, where appropriate, qualified as competent to use it.
- Products shall be maintained in accordance with the manufacturer's recommendations.
- Products shall be repaired / serviced by the manufacturer or its nominated agent only.
- Where the product is to be used in areas where Network Rail is not the Duty Holder (e.g. Leased Stations), the sponsor shall obtain formal consent from the Duty Holder for the locality where the equipment is to be installed in compliance with Railway Group Standard GE/RT8270 to deploy that equipment on, or about, or as part of that party's infrastructure. The decision of that party is absolute, and cannot be overridden except through the escalation processes established in the ROGS regulations.

### **SUPPLY CHAIN ARRANGEMENTS**

- If a product is accepted for use, Network Rail (or it's formally appointed agents) may wish to purchase the product direct from the manufacturer or alternatively contract an installer or other contractor who will purchase the product from the manufacturer.
- Network Rail's approach to sourcing products following acceptance will vary across different product categories. However it is not necessary (and it is not a requirement of Network Rail) for a manufacturer to enter into an exclusive supply arrangement with a reseller or other supplier in order to supply your products/equipment to Network Rail.

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### PRODUCT CONFIGURATION

Part No.	Description	PADS No.
<b>SINGLE PHASE IP23 MILD STEEL</b>		
1Ø-STTS/1/5/IP23 (230-230)	Single Phase Isolating Transformer 5kVA for incoming power supplies.	054/212503
1Ø-STTS/1/10/IP23 (230-230)	Single Phase Isolating Transformer 10kVA for incoming power supplies.	054/212501
1Ø-STTS/1/15/IP23 (230-230)	Single Phase Isolating Transformer 15kVA for incoming power supplies.	054/212504
1Ø-STTS/1/20/IP23 (230-230)	Single Phase Isolating Transformer 20kVA for incoming power supplies.	054/212505
1Ø-STTS/1/25/IP23 (230-230)	Single Phase Isolating Transformer 25kVA for incoming power supplies.	054/212506
1Ø-STTS/1/30/IP23 (230-230)	Single Phase Isolating Transformer 30kVA for incoming power supplies.	054/212507
1Ø-STTS/1/30/IP23 (230-230)	Single Phase Isolating Transformer 35kVA for incoming power supplies	054/212508
1Ø-STTS/1/40/IP23 (230-230)	Single Phase Isolating Transformer 40kVA for incoming power supplies	054/212509
1Ø-STTS/1/40/IP23 (230-230)	Single Phase Isolating Transformer 45kVA for incoming power supplies	054/212510
1Ø-STTS/1/50/IP23 (230-230)	Single Phase Isolating Transformer 50kVA for incoming power supplies	054/212511
<b>THREE PHASE IP23 MILD STEEL</b>		
3Ø-STTS/3/5/IP23 (400-400)	Three Phase Isolating Transformer 5kVA for incoming power supplies	054/212512
3Ø-STTS/3/10/IP23 (400-400)	Three Phase Isolating Transformer 10kVA for incoming power supplies	054/212502
3Ø-STTS/3/15/IP23 (400-400)	Three Phase Isolating Transformer 15kVA for incoming power supplies	054/212513
3Ø-STTS/3/20/IP23 (400-400)	Three Phase Isolating Transformer 20kVA for incoming power supplies	054/212514
3Ø-STTS/3/25/IP23 (400-400)	Three Phase Isolating Transformer 25kVA for incoming power supplies	054/212515
3Ø-STTS/3/30/IP23 (400-400)	Three Phase Isolating Transformer 30kVA for incoming power supplies	054/212516
3Ø-STTS/3/30/IP23 (400-400)	Three Phase Isolating Transformer 35kVA for incoming power supplies	054/212517
3Ø-STTS/3/40/IP23 (400-400)	Three Phase Isolating Transformer 40kVA for incoming power supplies	054/212518
3Ø-STTS/3/40/IP23 (400-400)	Three Phase Isolating Transformer 45kVA for incoming power supplies	054/212519
3Ø-STTS/3/50/IP23 (400-400)	Three Phase Isolating Transformer 50kVA for incoming power supplies	054/212520





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## **DISTRIBUTION**

### **Manufacturer**

Jeremy Lay  
Blakley Electric Ltd  
1, Thomas Road  
Optima Park  
Crayford  
Kent  
DA1 4GA  
[Jeremy.lay@blakleyelectrics.co.uk](mailto:Jeremy.lay@blakleyelectrics.co.uk)

### **Sponsor**

Paul Keane  
Network Rail  
[Paul.Keane@networkrail.co.uk](mailto:Paul.Keane@networkrail.co.uk)

### **Applicant**

Same as sponsor

### **Project Manager**

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Mick Turner  
Senior Signalling Design Engineer  
Signalling System Design  
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## **For PADS records**

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## **For Information/briefing**

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