

Approved TH series Transformers for LUL, APR 2072

Blakley Electrics produces double wound, 240:110V transformers, approved by London Underground (LUL) to supply Platform Sockets, Unmanned Ticketing Machines, Power Tools, etc. The products are approved for installation on LUL premises, including defined Section 12 locations, Approved Product Register (APR) Nos. 2071 and 2072 refer. See data sheet TRDS030 for details of the TDC series, which combines a transformer and 6W, 9W or 12W DP MCB distribution arrangement with optional RCDs. The TH series has a more limited distribution capacity and is described below.

TH series - APR 2072 - Standard TH series transformers are stocked in ratings of 2 kVA and 6 kVA but other ratings can also be supplied. They provide a 110 volt Reduced Low Voltage Supply (RLV) to BS 7671 and employ a transformer with dual 55V secondary windings to LUL specification. Different combinations of MCB, RCD and socket-outlet can be incorporated. The transformers are suitable for installation in defined Section 12 locations, as well as in locations such as Depots and Workshops.

Enclosure - Enclosures are non-vented to IP55 and incorporate wall and floor mounting brackets. They are of robust construction and fabricated from mild steel, seam welded with a hot dip galvanized finish to BS 729. A top hinged, gasketed, metal dolly cover with quick release fastener protects the MCBs and maintains the IP55 rating when fastened.

Rating - Continuously rated at 2 kVA or 6 kVA the transformer is manufactured in accordance with BS EN 61558 Parts 1 and 2-4 and is fabricated from materials with a Class F insulation rating. Other ratings can be supplied to order.

Primary Volts - 240 volts with off-load tappings at 220 and 260 volts

Secondary Volts - 110V line to line and 55V line to earth, in accordance with LUL drg. 2-9569-L20163 rev 5.

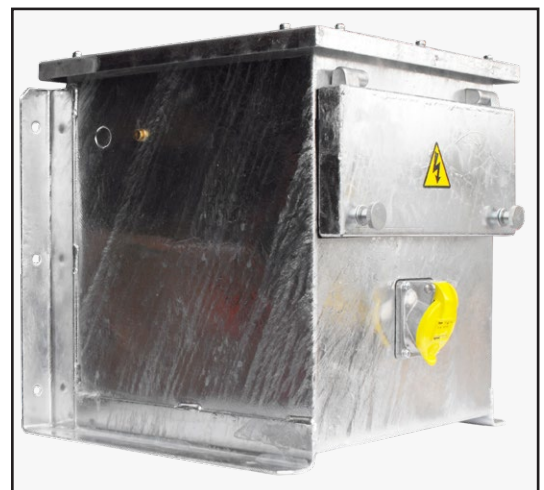
Distribution - Fitted with double-pole, Type "C" Schneider MCBs, ABB RCCBs and metal clad 16A 110V IP44 sockets, as detailed below. Other combinations are available to order and other makes of switchgear can be fitted. On installations with a high earth fault loop impedance, in order to achieve a 5 second disconnection time, models with RCD protection are recommended, as listed below. Standard models have an RCD sensitivity of 300mA with time delay to discriminate with 30mA sensitivity RCDs protecting final circuits.

Standard Part Numbers - Incorporating Schneider MCBs

Part No.	Type	Description
S210209	TH/1/2/C1-16/GALV/LUL	2 kVA with 1 x 16A DP MCB
S210037	TH/1/2/C1-16/S1/GALV/LUL	2 kVA with 1 x 16A DP MCB & 16A Socket
S210210	TH/1/6/C2-32/GALV/LUL	6 kVA with 2 x 32A DP MCBs
S210326	THR/1/2/C1-16/RCD300S/GALV/LUL	2 kVA with 1 x 16A DP MCB + 1 x RCD
S210327	THR/1/6/C1-50/RCD300S/GALV/LUL	6 kVA with 1 x 50A DP MCB + 1 x RCD
S210328	THR/1/6/C2-32/RCD300S-2/GALV/LUL	6 kVA with 2 x 32A DP MCBs + 2 x RCD



TH series transformers, 2 to 6 kVA



2 kVA transformer complete with 16A socket

Transport for London London Underground		Product Registration Certificate
Registration No.	2072	Printed on: 20 Dec 2012
Title	TH 110V RLV Transformer Assemblies (55v-0v-55v)	
Status	Authorised For Use	
Supersedes ProductID	N/A	
Superseded By ProductID	N/A	
Date Authorised for Use	18 Dec 2012	
Primary Use	For use with 110v socket outlets and lighting installations either temporary or permanent. Can be used for any 110v equipment.	
Additional Info/KeyWords	These products are compliant for installations in surface locations, and within a fire rated room volume less than 75m ³ with a fire detection and alarm system in sub-surface locations, as specified in LU standard 1-085. Specification: 1,2,3,4,6 & 10kVA available (Standard unit sizes 280kVA) Manufacturer: Blakley Electrics Ltd, 1 Thomas Road, Optima Park, Crayford, Kent, DA1 4QA, Tel: 0845 074 0064	
Classification Hierarchy	Electrical	
Manufactured By	BLAKLEY ELECTRICS LTD	
Requirements	ReqID	Requirement
to records to display.		Status
Conditions		Trial
Description		Linked To Re
to records to display.		
Evidence	EvidenceType	FileName
EvidenceText	Specification	Data Sheet LUL TH.pdf
	Drawing	C23874 GA.pdf
	Drawing	C23877 GA 6kVA.pdf
		Linked To Re
Refer to Web site www.lu-apr.co.uk to check current status, download attachments and for details of other products.		
MAYOR OF LONDON		

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