

Approved TDC series Transformers for LUL, APR 2071

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. The TH series are enclosed transformers with limited distribution capacity, see data sheet TRDS034 for details. The TDC series combines a transformer and 6W, 9W or 12W double-pole MCB distribution arrangement with optional RCDs and is described below.

TDC series - APR 2071

Transformer Distribution Cubicles combine a step-down, double wound transformer with a double-pole MCB distribution arrangement. The assembly provides a 110V Reduced Low Voltage Supply (RLV) to BS 7671, with dual 55V secondary windings, to LUL requirements.

Enclosure

TDC enclosures are of robust construction, floor standing, non-vented to IP55 and incorporate floor fixing and wall securing brackets. The enclosure is segregated, with separate compartments for the transformer and MCB sections. The transformer section is tool access only via tamper proof screws. The MCB section is accessed via a side or top hinged, gasketed door with quick release fasteners. Cable entry/exit is via a top mounted, removable gland plate. The enclosure has a Matt Black finish, LUL approved, electrostatically applied, polyester powder paint.

Incoming Isolator

Fitted with a Schneider 125A DP Isolator

Transformer Ratings

Rated at 6 kVA for 3 hours and 4.5 kVA for 8 hours. The transformer is manufactured in accordance with BS EN 61558 Parts 1 and 2-4 and utilises materials with a Class F insulation rating.

Primary Volts

240 volts with off-load tapplings at 220 and 260 volts

Secondary Volts

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

Distribution

Fitted with a 63A double-pole MCB, which feeds 6 no., 9 no. or 12 no. 32 amp, double-pole, Type "C" Schneider MCBs. Other ratings of MCB can be fitted, as can other makes of MCB. On installations with a high earth fault loop impedance, in order to achieve a 5 second disconnection time, models with RCD protection are available, as listed below. Each set of 3 x distribution MCBs is protected by a 300mA RCD with time delay. If required, circuits can be protected by individual RCD, although this may impact on the size and cost of the assembly, depending on the arrangement.

Standard Part Numbers - Fitted with Schneider MCBs

Part No.	Type	Description
S210211	TDC/6/C6-32/LUL	6 kVA with 6 x 32A DP MCBs
S210212	TDC/6/C9-32/LUL	6 kVA with 9 x 32A DP MCBs
S210213	TDC/6/C12-32/LUL	6 kVA with 12 x 32A DP MCBs
S210329	TDCR/6/RCD300S-2/C6-32/LUL	6 kVA with 6 x 32A DP MCBs + 2 x RCDs
S210330	TDCR/6/RCD300S-3/C9-32/LUL	6 kVA with 9 x 32A DP MCBs + 3 x RCDs
S210331	TDCR/6/RCD300S-4/C12-32/LUL	6 kVA with 12 x 32A DP MCBs + 4 x RCDs



TDC/6/C9/LUL - Door Closed



TDC/6/C9/LUL - Door Open

Transport for London London Underground		Product Registration Certificate	
		Printed on: 20 Dec 201	
Registration No.	2071		
Title	TDC (Transformer Distribution Cubicle)		
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.		
Additional Info/KeyWords	These products are compliant for installations in surface locations, and within a fire rated room of volume less than 75m³ with a fire detection and alarm system in sub-surface locations, as specified in LU standard 1-085. Combined 110v (55v-0v-55v) transformer and MCB distribution centre available in 2kVA or 6kVA. Manufacturer: Blakley Electrics Ltd, 1 Thomas Road, Optima Park, Crayford, Kent, DA1 4GA. Tel: 0845 074 0084		
Classification Hierarchy	Electrical		
Manufactured By	BLAKLEY ELECTRICS LTD		
Requirements	ReqID	Requirement	Status
			Trial
No records to display.			
Conditions			
Description			
No records to display.			
Evidence	EvidenceType	FileName	Linked To Re
	Specification	Data Sheet LUL TDC.pdf	
	Drawing	C23737 GA.pdf	
	Drawing	C23740 GA 9W.pdf	
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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