

TDC series

Combined Transformer and Double-Pole MCB Distribution Assembly, rated from 2 kVA to 10 kVA, single-phase.

Application

To provide a Reduced Low Voltage (RLV) supply in accordance with BS 7671, for workshops, plant rooms, etc., with integral double-pole distribution MCBs to feed remote socket outlets.

Enclosures

Fabricated from 1.5mm sheet steel and available as wall mounting IP23 or floor standing IP55.

Wall mounting enclosures have bottom cable entry and exit and have a durable paint finish, standard shade Traffic Yellow.

Floor standing models have top cable entry and exit and are painted in an LUL Section 12 approved finish, shade Matt Black.

Ratings

Double wound transformers rated at 2, 5, 6 and 10 kVA, single-phase.

Models for LUL have dual 55V secondary windings.

Voltages

Primary Voltages - 230V or 400V, single phase

Secondary Voltage - 110 CTE (2 x 55V windings to LUL Spec)

Transformers can also be supplied with dual voltage outputs of 110V and 24V or 110V and 42V, to feed power tools (RLV) and hand lamps (SELV).

Switchgear

Primary - Switch Disconnecter or MCB

Secondary - Up to 12 no. double-pole outgoing MCBs to BS EN 60898, with the option of RCD protection.

To achieve compliance with the 5 second disconnection time requirement of BS7671 Regulation 441.8.1.3 for RLV supplies, providing outgoing circuits with RCD protection may be more cost effective than increasing conductor sizes (refer also to Table 41.6). Multiple MCBs can be protected by one RCD or each MCB can be individually protected by an RCD. RCBOs are not used in this application as they do not incorporate overcurrent protection in both poles, which is a requirement of BS7671. Please contact our Customer Services when TDCs with RCD protection are required.



TDC 5 kVA
c/w 4 no. DP MCBs

Standard Models

Item No.	Type	Description
S210033	TDC/2/C4-16	2 kVA, Single-phase Transformer, 230:110V CTE, 4 x 16A DP Type "C" MCBs Wall mounting, IP23, bottom cable entry and exit, vented
S210035	TDC/5/C10-16	5 kVA, Single-phase Transformer, 230:110V CTE, 10 x 16A DP Type "C" MCBs Wall mounting, IP23, bottom cable entry and exit, vented
S210211	TDC/6/C6/LUL	6 kVA, Single-phase Transformer, 220.240.260V:2x55V, 6 x 32A DP Type "C" Polestar MCBs Floor standing, IP55, top cable entry and exit, non-vented
S210212	TDC/6/C9/LUL	6 kVA, Single-phase Transformer, 220.240.260V:2x55V, 9 x 32A DP Type "C" Polestar MCBs Floor standing, IP55, top cable entry and exit, non-vented
S210213	TDC/6/C12/LUL	6 kVA, Single-phase Transformer, 220.240.260V:2x55V, 12 x 32A DP Type "C" Polestar MCBs Floor standing, IP55, top cable entry and exit, non-vented

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