

TS and TTS series

General purpose, single phase (TS) and three phase (TTS), double wound, enclosed type transformer assemblies, rated from 2.5 to 25 kVA single-phase and from 1 to 25 kVA three phase.

Applications

Designed for installation in plant rooms, workshops, etc., TS and TTS series transformers are available in a wide range of power ratings and voltage ratios and can incorporate a variety of fitments including MCBs, RCDs, Fusegear, Sockets and Isolators.

Enclosures

Fabricated from 1.5mm or 2mm sheet steel with a durable paint finish, shade Dark Admiralty Grey. Wall mounting enclosures are available for ratings up to 4 kVA single-phase, vented to IP21 or non-vented to IP44. Enclosures for all other ratings of single phase transformer and for all three phase transformers are floor standing and are vented to IP21. See table for weights and dimensions.

Ratings

Single phase, continuously rated from 2.5 to 25 kVA.

Three phase, continuously rated from 1 to 25 kVA.

Transformer windings are designed and manufactured in accordance with BS EN 61558 Parts 1, 4, 6 and 23, as applicable.

Voltages

Primary Voltages - 230 and 400 volts

Secondary Voltages - 24, 25, 42, 50, 110, 230 and 400 volts

Transformers with dual secondary windings can be supplied i.e. to feed a power tool at 110 volts and an inspection lamp at 24 volts.

The earth connection of the secondary winding must be specified - PTO for guidance on the earthing of transformer windings.

Fitments

TS and TTS series transformers can be fitted with a wide combination of MCBs, RCDs, Fusegear, Sockets and Switch Disconnectors. Our Customer Service Centres would be pleased to quote against your specific requirements.

Alternative Products

- TH series of heavy duty industrial transformers, from 0.1 to 25 kVA

Please refer to our website or contact our Customer Service Centres for full details of all Blakley Power Products



TS series, 10 kVA, 230:110V

THE POWER PROFESSIONALS

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Cert. No. 9102091

TRPDS6 - 01/08

Approximate Weights and Dimensions (not including fitments)

TS series, Single-phase Transformers		
Standard Ratings, kVA	Dimensions, mm (W x D x H)	Approx Wt, kg
2.5 to 4 kVA Wall Mounting	336 x 333 x 333	35 to 50
2.5 to 4 kVA	336 x 321 x 373	35 to 50
5 to 10 kVA	442 x 432 x 478	70 to 103
12 to 25 kVA	804 x 526 x 604	115 to 165

TTS series, Three phase Transformers		
Standard Ratings, kVA	Dimensions, mm (W x D x H)	Approx Wt, kg
1, 2 and 3 kVA	389 x 321 x 418	35 to 52
5, 7.5, 10 and 15 kVA	442 x 432 x 478	84 to 115
15, 20 and 25 kVA	804 x 526 x 604	150 to 188

Guidance on the Earthing of Secondary Windings

To enable us to supply transformers correctly configured for each installation it is necessary to specify the earthing arrangement of the secondary winding

Detailed below are the normal earthing arrangements for standard TS and TTS series transformers.

Secondary Voltage	Earthing Arrangement	BS 7671 Definition	Comments
24, 25, 42 or 50 Volts, single or three phase	Earth Free	Separated Extra Low Voltage (SELV)	Sockets to be 2P or 3P. Over current protection to be DP or TP.
24, 25, 42 or 50 Volts, single phase	Neutral Earthed	Protective Extra Low Voltage (PELV)	Sockets to be SP+N+E. Over current protection to be SP.
24, 25, 42 or 50 Volts, single phase	Centre-tapped to Earth	Protective Extra Low Voltage (PELV)	Sockets to be 2P+E. Over current protection to be DP.
110 Volts, single phase	Centre-tapped to Earth	Reduced Low Voltage (RLV)	Sockets to be 2P+E. Over current protection to be DP.
110 Volts, three phase	Neutral Earthed	Reduced Low Voltage (RLV)	Sockets can be 2P+E or 3P+E. Over current protection to be DP or TP
120 Volts, single phase	Neutral Earthed	Low Voltage (LV)	Sockets to be SP+N+E. Over current protection to be SP. USA domestic voltage.
208 Volts, three phase	Neutral Earthed	Low Voltage (LV)	208 volts L to L, 120 volts L to N. USA industrial voltage. DY11.
230 Volts, single phase	Neutral Earthed	Low Voltage (LV)	Sockets to be SP+N+E. Over current protection to be SP.
230 Volts, single phase	Earth Free	Protection by Electrical Separation	Maximum of one socket (feeding one appliance). Over current protection to be DP
400 Volts, three phase	Neutral Earthed	Low Voltage (LV)	400V L to L, 230V L to N. DY11.
400 Volts, three phase	Earth Free	Protection by Electrical Separation	Maximum of one socket (feeding one appliance). Over current protection to be TP

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