



TYPICAL LIGHTING TRANSFORMER DESIGN DATA

Sr.No.	TECHNICAL PERTICULERS	Shepherd Transformers Industries
1	EQUIPMENT REFENRECE	LIGHTING TRANSFORMER
2	QUANTITY	1
3	RATING	250KVA
4	PHASES	3
5	TYPE	WITH /WITHOUT ENCLOUSER
6	NO LOAD VOLTAGE RATIO	415/415v
7	HIGHEST SYSTEM VOLTAGE	1.1KV
8	FREQUENCY	50HZ +/-5%
9	IMPEDENCE	<4%
10	VECTOR GROUP	D/yn11
11	POLARITY	
12	PRIMARY SUPPLY	415V+/-5%
13	SECONDARY SUPPLY	415v+/-5%
14	REF. INDIAN STANDARD	IS 2026
15	DESIGN AMBIENT TEMP.	50Dcent.
16	ALTITUDE ABOVE MSL	
17	RELATIVE HUMIDITY	90%
18	ANNUAL RAINFALL	
19	ATMOSPHERE	To be specified
20	INSTALLATION	INDOOR
21	TYPE OF COOLING	FORCED COOLING
22	INSULATION LEVEL	CLASS F
	IMPULSE TEST - HV/LV	---
	POWER FREQUENCY HV /LV	3KV
23	TEMPERATURE RISE OF WINDINGS	60Dcent above amb.
24	RADIATORS	N.A
25	TERMINAL ARRANGEMENT ON PRIMARY	THRU' TERMINAL BOX (CABLE BOX) / OPEN TYPE: BRASS NUT BOLRT ON TERMINAL PLATE
26	TERMINAL ARRANGEMENT ON SECONDARY	THRU' TERMINAL BOX (CABLE BOX) / OPEN TYPE: BRASS NUT BOLRT ON TERMINAL PLATE
27	EXTRA OUTDOOR	N.A

	NEUTRAL BUSHING FOR EARTHING	To be provided
28	RATED CURRENT OF BUSHINGS ON PRIMARY	As per design data sheet
29	RATED CURRENT OF BUSHINGS ON SECONDARY	As per design data sheet
30	CREEPAGE DISTANCE OF INSULATORS AND BUSHINGS	As per design data sheet
31	TAP CHANGER	OFF circuit
32	TAPS/STEPS ON PRIMARY TO GET CONSTANT VOLTAGE ON SECONDARY	+/-2.5% & +/- 5%
33	CABLE/CONDUCTOR SIZE ON PRIMARY	As per design data sheet
34	CABLE/CONDUCTOR SIZE ON SECONDARY	As per design data sheet
35	TYPE OF PAINTING	RAL7032
36	SHADE OF PAINT	Siemens Grey
37	INSPECTION	At our works
38	TESTS TO BE WITNESSED	By client's Rep.
39	DRAWINGS, DATA & TEST CERTIFICATES	
40	RATED KVA	250KVA
41	NO LOAD VOLTAGE RATIO	415/415
42	VECTOR GROUP REFERENCE	D/Yn11
43	NO LOAD LOSSES AT RATED VOLTAGE.	<1%
44	LOAD LOSSES AT RATED CURRENT AT 75 DEG.C	<1.5%
45	IMPEDANCE VOLTAGE AT RATED KVA, 75 DEG.C AND 50 Hz.	<4%
45	EFFICIENCY (AT 75 DEG.C) AT FULL LOAD	97.5%
46	a) 1.0 P.F.	
47	b) 0.8 P.F. (LAG)	
48	TOTAL WEIGHT WITH ACCESSORIES.	
49	APPROXIMATE OVERALL DIM. (L x W x H)	

