

Portable Safety Isolating Transformers

RS Part No	260-4244	260-4250	260-4272	260-4288	260-4294	905-6248	399-6140	310-2171
Product Code	CM7501	CM10001	CM15002	CM22502	CM33002	CM5000/210/PT	CMHT3	CMH1200/110
Continuous Output Rating (VA)	375	500	750	1125	1650	2500	3000	600
Intermittent, 5 mins on 15 mins off. (VA)	750	1000	1500	2250	3300	5000		1200
Primary Voltage (V)	230	230	230	230	230	230	230	230
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Off-Load Secondary Volts (V)	113.8	114.6	113.8	112	111.5	112.5	113.5	112.5
Full-Load secondary Volts (V)	109.6	110	109.6	108.4	108.3	108.9	109.9	109.5
Regulation at Continuous Rating	4%	4%	4%	3%	3%	3%	3%	4%
Efficiency at Continuous Rating	90%	90%	93%	93%	95%	93%	96%	94%
Iron Loss (Watts)	20.16	23.5	18	28	35	40	48	17.3
Copper Loss at Continuous rating	Primary (Watts)	9.05	14.8	18.4	22.7	30	42.9	13
	Secondary (Watts)	10.74	17	21	29	30	58	10
Insulation Resistance at 2kV for 1 Minute	>200MΩ	>200MΩ	>200MΩ	>200MΩ	>200MΩ	>200MΩ	>200MΩ	>200MΩ
Flash Test Voltage for 1 minute	2kV	2kV	2kV	2kV	2kV	2kV	2kV	2kV
Primary Winding Resistance at 20°C	1.79Ω	1.3Ω	0.93Ω	0.53Ω	0.53Ω	0.24Ω	0.216Ω	1.73Ω
Secondary Winding Resistance at 20°C	0.52Ω	0.37Ω	0.25Ω	0.16Ω	0.16Ω	0.075Ω	0.04Ω	0.91Ω
Winding Temperature Rise	Primary (°C)	96	90	92	95	98	98	80
	Secondary (°C)	89	85	88	89	96	92	75
Primary Thermal Circuit Breaker Rating	3Amp	4Amp	6Amp	8Amp	10Amp	15Amp	15Amp	6Amp
Dimensions, Width x Depth x Height (mm)	160x210x220	160x210x220	160x210x220	190x240x260	190x240x260	360x320x280	230x300x370	175x75x175
Weight (Kg)	9	10.5	11.5	16	18	32	32	7
Output Sockets	1x16A BS EN 60309	1x16A BS EN 60309	2x16A BS EN 60309	2x16A BS EN 60309	2x16A BS EN 60309	2x16A, 1x32A BS EN 60309	1x32A BS EN 60309	1x16A BS EN 60309

Materials and Construction

The enclosure is moulded from DMC (Dough moulded compound) which is fibre glass with a Flame retardent compound and is self extinguishing (not 399-6140).

The enclosure for 399-6140 is sheet steel ventilated to IP22 and finished in golden yellow to BS4800 shade 08 E 51

The encapsulant used to retain the transformer is a flame retardant Polyurathane resin which incorporates a silica sand filler.

The bobbin is manufactured in nylon and is rated for operation at 140°C

The interwinding and screen insulation is nomex/polyester composite.

The winding wire is dual coated polyester, grade 2 rated for 200°C.

The mains cable fitted on the 500-3300 VA range has fitted a moulded 13 Amp plug with a 13 Amp fuse.

The mains cable fitted on 905-6248 & 399-6140 is supplied unterminated to allow the user to fit the required style of plug.