

Portable Safety Isolating Transformers

RS Part No	260-4244	260-4250	260-4272	260-4288	260-4294	260-4301	399-6140	310-2171	
Transformer Type	CM7501	CM10001	CM15002	CM22502	CM33002	CM40002	CMHT3	CMH1200/110	
Continuous Output Rating (VA)	375	500	750	1125	1650	2000	3000	600	
Intermittent, 5 mins on 15 mins off. (VA)	750	1000	1500	2250	3300	4000		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	38	13
	Secondary (Watts)	10.74	17	21	29	30	58	30	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	84	80
	Secondary (°C)	89	85	88	89	96	92	86	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	270x320x280	230x300x370	175x75x175	
Weight (Kg)	9	10.5	11.5	16	18	30	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 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 260-4301 & 399-6140 is supplied unterminated to allow the user to fit the required style of plug.