

MGM



TRANSFORMER COMPANY



ENCAPSULATED DISTRIBUTION TRANSFORMERS



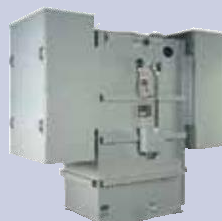
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Other Products



Dry Substation (Bulletin 30)



Liquid Substation (Bulletin 40)



Custom 600V Dry Type (Bulletin 15)

ENCAPSULATED OVERVIEW

MGM provides encapsulated transformers to operate in harsh or hazardous conditions where dust, dirt or gases exist. These models feature electrical grade silica and resin to seal moisture and air out of the core and coil and are contained in a NEMA 3R enclosure for use indoors or out. These features make encapsulated units perfect for corrosive environments.

APPLICATIONS



Marine



Heavy
Industrial



Wastewater
Treatment



Petrochemical

FEATURES & BENEFITS

MGM offers over 50 SKU's ranging from 50VA to 25KVA, with multiple voltage configurations. Standard features for encapsulated transformers include:

- Ratings from 50VA to 25,000VA
- 50/60 Hz frequency
- Encapsulated with electrical grade silica and resin to seal moisture
- Insulation system: 130°C
- UL and cUL listed & CSA certified
- Electrostatic shield on all units greater than 250VA
- 5 Standard Voltage Configurations:
 - 240×480-120/240
 - 600-120/240
 - 120/208/240/277-120/240
 - 190/200/208/220×380/400/416/440-120/240
 - 190/208/220/240×380/416/440/480-120/240

TESTING AND QUALITY CONTROL

MGM Transformer tests every transformer to satisfy the standards required by IEEE Standard C57.12.01 for Dry-Type Transformers and IEEE Standard C57.12.00 for liquid filled transformers. Our testing equipment ensures the highest quality transformers that meet all IEEE, and NEMA standards. We also offer customer witness testing on individual transformers. We also have the capability of providing a range of design tests and optional tests such as impulse, partial discharge, temperature rise, sound level, and others.

THE BETTER CHOICE!

MGM is a leader in the transformer industry, and a premiere manufacturer capable of fulfilling the most demanding applications. **No one can provide a wider range of products and solutions than MGM!**

SPECIFICATIONS – ENCAPSULATED TRANSFORMERS

240 X 480 PRIMARY VOLTS – 120/240 SECONDARY VOLTS

Catalog Number	Transformer Rating	Height Inches (Cm)	Width Inches (Cm)	Depth Inches (Cm)	Weight Lbs (Kg)	Dimensional Drawing	Wiring Diagram
M153004	0.05 KVA	6.41 (16.3)	3.14 (8.0)	3.05 (7.7)	4 (1.8)	A	1
M153005	0.1 KVA	7.16 (18.2)	3.89 (9.9)	3.67 (9.3)	5 (2.3)	A	1
M153006	0.15 KVA	7.16 (18.2)	3.89 (9.9)	3.67 (9.3)	7 (3.2)	A	1
M253007S	0.25 KVA	8.68 (22.0)	4.08 (10.4)	3.88 (9.9)	10 (4.5)	B	2
M253008S	0.5 KVA	9.06 (23.0)	4.37 (11.1)	4.20 (10.7)	15 (6.8)	B	2
M253009S	0.75 KVA	9.68 (24.6)	4.75 (12.1)	4.50 (11.4)	19 (8.6)	B	2
M253010S	1 KVA	10.50 (26.7)	5.50 (14.0)	5.13 (13.0)	24 (10.9)	B	2
M253011S	1.5 KVA	11.62 (29.5)	5.50 (14.0)	5.13 (13.0)	30 (13.6)	B	2
M253012S	2 KVA	13.00 (33.0)	5.50 (14.0)	5.13 (13.0)	38 (17.2)	B	2
M253013S	3 KVA	11.50 (29.2)	10.31 (26.2)	7.13 (18.1)	55 (24.9)	C	2
M2530134S	3 KVA	11.50 (29.2)	10.31 (26.2)	7.13 (18.1)	55 (24.9)	C	3
M253014S	5 KVA	14.38 (36.5)	10.31 (26.2)	7.13 (18.1)	75 (34.0)	C	2
M2530144S	5 KVA	14.38 (36.5)	10.31 (26.2)	7.13 (18.1)	75 (34.0)	C	3
M2535153S	7.5 KVA	15.19 (38.6)	13.50 (34.3)	10.84 (27.5)	115 (52.2)	C	4
M2535163S	10 KVA	15.19 (38.6)	13.50 (34.3)	10.84 (27.5)	125 (56.7)	C	4
M2535173S	15 KVA	16.94 (43.0)	14.12 (35.9)	11.59 (29.4)	170 (77.1)	C	4
M2535183S	25 KVA	18.44 (46.8)	16.13 (41.0)	13.34 (33.9)	250 (113.0)	C	4

600 PRIMARY VOLTS – 120/240 SECONDARY VOLTS

Catalog Number	Transformer Rating	Height Inches (Cm)	Width Inches (Cm)	Depth Inches (Cm)	Weight Lbs (Kg)	Dimensional Drawing	Wiring Diagram
M153104	0.05 KVA	6.41 (16.3)	3.14 (8.0)	3.05 (7.7)	4 (1.8)	A	8
M153105	0.1 KVA	7.16 (18.2)	3.89 (9.9)	3.67 (9.3)	5 (2.3)	A	8
M153106	0.15 KVA	7.16 (18.2)	3.89 (9.9)	3.67 (9.3)	7 (3.2)	A	8
M253107S	0.25 KVA	8.68 (22.0)	4.08 (10.4)	3.88 (9.9)	10 (4.5)	B	9
M253108S	0.5 KVA	9.06 (23.0)	4.37 (11.1)	4.20 (10.7)	15 (6.8)	B	9
M253109S	0.75 KVA	9.68 (24.6)	4.75 (12.1)	4.50 (11.4)	19 (8.6)	B	9
M253110S	1 KVA	10.50 (26.7)	5.50 (14.0)	5.13 (13.0)	24 (10.9)	B	9
M253111S	1.5 KVA	11.62 (29.5)	5.50 (14.0)	5.13 (13.0)	30 (13.6)	B	9
M253112S	2 KVA	13.00 (33.0)	5.50 (14.0)	5.13 (13.0)	38 (17.2)	B	9
M2531131S	3 KVA	11.50 (29.2)	10.31 (26.2)	7.13 (18.1)	55 (24.9)	C	10
M2531141S	5 KVA	14.38 (36.5)	10.31 (26.2)	7.13 (18.1)	75 (34.0)	C	10
M2536151S	7.5 KVA	15.19 (38.6)	13.50 (34.3)	10.84 (27.5)	115 (52.2)	C	10
M2536161S	10 KVA	15.19 (38.6)	13.50 (34.3)	10.84 (27.5)	125 (56.7)	C	10
M2536171S	15 KVA	16.94 (43.0)	14.12 (35.9)	11.59 (29.4)	170 (77.1)	C	10
M2536181S	25 KVA	18.44 (46.8)	16.13 (41.0)	13.34 (33.9)	250 (113.0)	C	10

SPECIFICATIONS – ENCAPSULATED TRANSFORMERS (CONTINUED)

120/208/240/277 PRIMARY VOLTS – 120/240 SECONDARY VOLTS

Catalog Number	Transformer Rating	Height Inches (Cm)	Width Inches (Cm)	Depth Inches (Cm)	Weight Lbs (Kg)	Dimensional Drawing	Wiring Diagram
M279740S	1 KVA	10.50 (26.7)	5.50 (14.0)	5.13 (13.0)	23 (10.4)	B	23
M279741S	1.5 KVA	11.62 (29.5)	5.50 (14.0)	5.13 (13.0)	30 (13.6)	B	23
M279742S	2 KVA	13.00 (33.0)	5.50 (14.0)	5.13 (13.0)	37 (16.8)	B	23
M279743S	3 KVA	11.50 (29.2)	10.31 (26.2)	7.13 (18.1)	55 (24.9)	C	23
M279744S	5 KVA	14.38 (36.5)	10.31 (26.2)	7.13 (18.1)	75 (34.0)	C	23
M279745S	7.5 KVA	15.19 (38.6)	13.50 (34.3)	10.84 (27.5)	105 (47.6)	D	63
M279746S	10 KVA	15.19 (38.6)	13.50 (34.3)	10.84 (27.5)	124 (56.2)	D	63
M279747S	15 KVA	16.94 (43.0)	14.12 (35.9)	11.59 (29.4)	171 (77.6)	D	63
M279748S	25 KVA	18.44 (46.8)	16.13 (41.0)	13.34 (33.9)	261 (118.4)	D	63

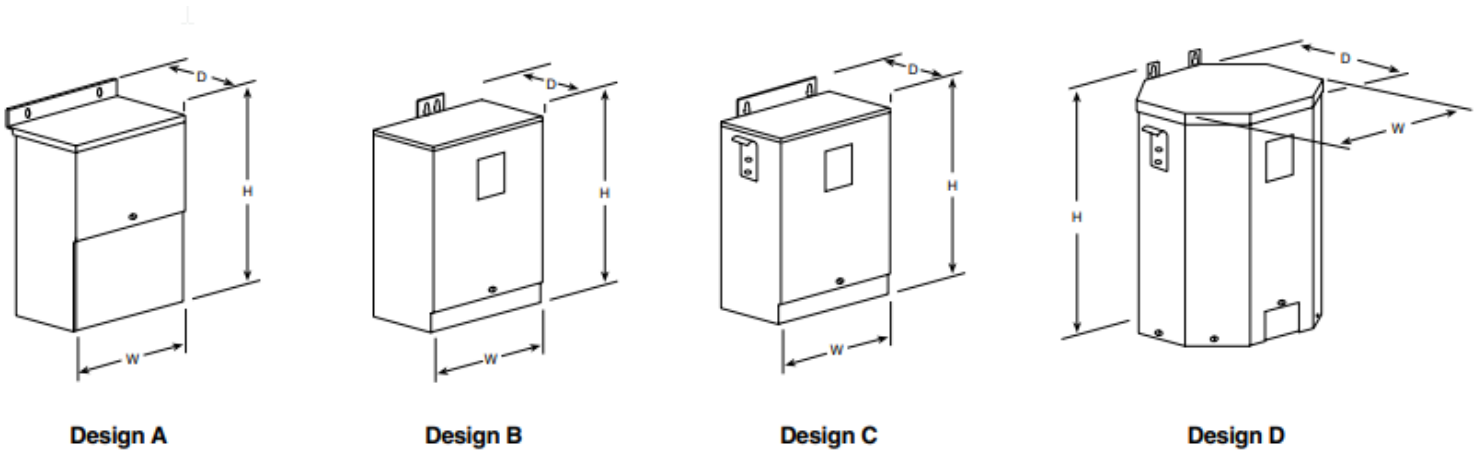
190/200/208/220x380/400/416/440 PRIMARY VOLTS – 120/240 SECONDARY VOLTS

Catalog Number	Transformer Rating	Height Inches (Cm)	Width Inches (Cm)	Depth Inches (Cm)	Weight Lbs (Kg)	Dimensional Drawing	Wiring Diagram
MF217437S	1 KVA	10.50 (26.7)	5.50 (14.0)	5.13 (13.0)	24 (10.9)	B	14
MF217439S	1.5 KVA	13.00 (33.0)	5.50 (14.0)	5.13 (13.0)	38 (17.2)	B	14
MF249873S	2 KVA	11.50 (29.2)	10.31 (26.2)	7.13 (18.1)	55 (24.9)	C	14
MF252520S	3 KVA	14.38 (36.5)	10.31 (26.2)	7.13 (18.1)	75 (34.0)	C	14
MF252794S	5 KVA	15.19 (38.6)	13.50 (34.3)	10.84 (27.5)	115 (52.2)	D	14
MF252795S	7.5 KVA	15.19 (38.6)	13.50 (34.3)	10.84 (27.5)	125 (56.7)	D	14
MF252796S	10 KVA	16.94 (43.0)	14.12 (35.9)	11.59 (29.4)	170 (77.1)	D	14
MF252797S	15 KVA	18.44 (46.8)	16.13 (41.0)	13.34 (33.9)	300 (136.0)	D	14
MF217437S	25 KVA	10.50 (26.7)	5.50 (14.0)	5.13 (13.0)	24 (10.9)	B	14

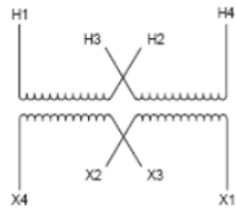
190/208/220/240x380/416/440/480 PRIMARY VOLTS – 120/240 SECONDARY VOLTS

Catalog Number	Transformer Rating	Height Inches (Cm)	Width Inches (Cm)	Depth Inches (Cm)	Weight Lbs (Kg)	Dimensional Drawing	Wiring Diagram
MF279260S	1 KVA	10.50 (26.7)	5.50 (14.0)	5.13 (13.0)	24 (10.9)	B	64
MF279261S	1.5 KVA	13.00 (33.0)	5.50 (14.0)	5.13 (13.0)	38 (17.2)	B	64
MF279262S	2 KVA	11.50 (29.2)	10.31 (26.2)	7.13 (18.1)	55 (24.9)	C	64
MF279263S	3 KVA	14.38 (36.5)	10.31 (26.2)	7.13 (18.1)	75 (34.0)	C	64
MF279264S	5 KVA	15.19 (38.6)	13.50 (34.3)	10.84 (27.5)	115 (52.2)	D	64
MF279265S	7.5 KVA	15.19 (38.6)	13.50 (34.3)	10.84 (27.5)	125 (56.7)	D	64
MF279266S	10 KVA	16.94 (43.0)	14.12 (35.9)	11.59 (29.4)	170 (77.1)	D	64
MF279267S	15 KVA	18.44 (46.8)	16.13 (41.0)	13.34 (33.9)	300 (136.1)	D	64
MF279260S	25 KVA	10.50 (26.7)	5.50 (14.0)	5.13 (13.0)	24 (10.9)	B	64

ENCAPSULATED DIMENSIONAL DRAWINGS

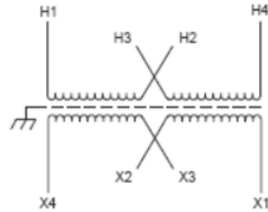


ENCAPSULATED WIRING DIAGRAMS



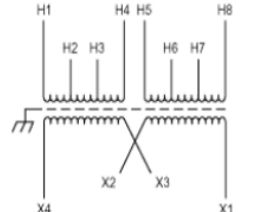
Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
480	H1-H4	H2 to H3	
240	H1-H3 & H2-H4		
Secondary Volts			
240		X2 to X3	X1-X4
120/240		X2 to X3	X1-X2-X4
120		X1 to X3 X2 to X4	X1-X4

Wiring Diagram 1



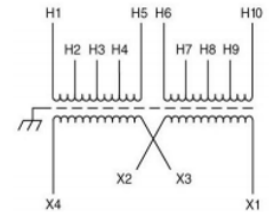
Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
480	H1-H4	H2 to H3	
240	H1-H3 & H2-H4		
Secondary Volts			
240		X2 to X3	X1-X4
120/240		X2 to X3	X1-X2-X4
120		X1 to X3 X2 to X4	X1-X4

Wiring Diagram 2



Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
252	H1-H8	H1 to H5 H4 to H8	
240	H1-H7	H1 to H5 H3 to H7	
228	H1-H6	H1 to H5 H2 to H5	
504	H1-H8	H4 to H5	
492	H1-H8	H3 to H5	
480	H1-H7	H3 to H5	
468	H1-H7	H2 to H5	
456	H1-H6	H2 to H5	
Secondary Volts			
240		X2 to X3	X1-X4
120/240		X2 to X3	X1-X2-X4
120		X1 to X3 X2 to X4	X1-X4

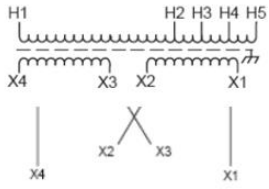
Wiring Diagram 3



Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
216	H1-H10	H1 to H9 H10 to H2	
228	H1-H10	H1 to H8 H10 to H3	
240	H1-H10	H1 to H7 H10 to H4	
252	H1-H10	H1 to H6 H10 to H5	
432	H1-H10	H2 to H9	
444	H1-H10	H3 to H9	
456	H1-H10	H3 to H8	
468	H1-H10	H4 to H8	
480	H1-H10	H4 to H7	
492	H1-H10	H5 to H7	
504	H1-H10	H5 to H6	
Secondary Volts			
240		X2 to X3	X1-X4
120/240		X2 to X3	X1-X3-X4
120		X1 to X3 X2 to X4	X1-X4

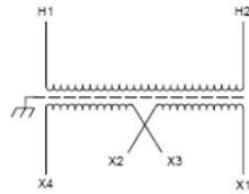
Wiring Diagram 4

ENCAPSULATED WIRING DIAGRAMS (CONTINUED)



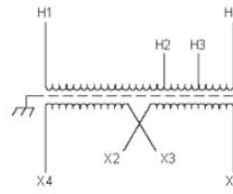
Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
600	H1-H2		
Secondary Volts			
240		X2 to X3	X1-X4
120/240		X2 to X3	X1-X2-X4
120		X1 to X3 X2 to X4	X1-X4

Wiring Diagram 8



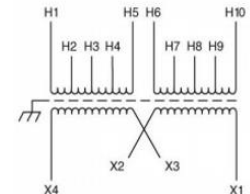
Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
600	H1-H2		
Secondary Volts			
240		X2 to X3	X1-X4
120/240		X2 to X3	X1-X2-X4
120		X1 to X3 X2 to X4	X1-X4

Wiring Diagram 9



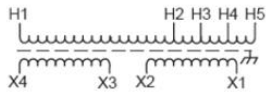
Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
600	H1-H4		
570	H1-H3		
540	H1-H2		
Secondary Volts			
240		X2 to X3	X1-X4
120/240		X2 to X3	X1-X2-X4
120		X1 to X3 X2 to X4	X1-X4

Wiring Diagram 10



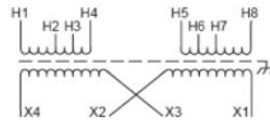
Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
190	H1 & H7	H1 to H6 H2 to H7	
200	H1 & H8	H1 to H6 H3 to H8	
208	H1 & H9	H1 to H6 H4 to H9	
220	H1 & H10	H1 to H6 H5 to H10	
380	H1 & H7	H2 to H6	
400	H1 & H8	H3 to H6	
416	H1 & H9	H4 to H6	
440	H1 & H10	H5 to H6	
Secondary Volts			
240		X2 to X3	X1-X4
120/240		X2 to X3	X1-X2-X4
120		X1 to X3 X2 to X4	X1-X4

Wiring Diagram 14



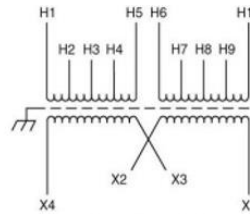
Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
277	H1, H5		
240	H1, H4		
208	H1, H3		
120	H1, H2		
Secondary Volts			
120		X1 to X3 X2 to X4	X1-X4
120/240		X2 to X3	X1-X2-X4
240		X2 to X3	X1-X4

Wiring Diagram 23



Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
120	H1 & H8	H1 to H6 H3 to H8	
208	H1 & H8	H2 to H7	
240	H1 & H8	H3 to H6	
277	H1 & H8	H4 to H5	
Secondary Volts			
240		X2 to X3	X1 & X4
120/240		X2 to X3	X1, X3, X4
120		X1 to X3 X2 to X4	X1 & X4

Wiring Diagram 63



Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
190	H1 & H7	H1 to H6 H2 to H7	
208	H1 & H8	H1 to H6 H3 to H8	
220	H1 & H9	H1 to H6 H4 to H9	
240	H1 & H10	H1 to H6 H5 to H10	
380	H1 & H7	H2 to H6	
416	H1 & H8	H3 to H6	
440	H1 & H9	H4 to H6	
480	H1 & H10	H5 to H6	
Secondary Volts			
240		X2 to X3	X1 - X4
120/240		X2 to X3	X1 - X2 - X4
120		X1 to X3 X2 to X4	X1 - X4

Wiring Diagram 64

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