

#### GENERAL SPECIFICATIONS:

##### PRIMARY

3-phase, 3-wire, 60Hz

##### SECONDARY

3-phase, 4-wire, 60Hz

##### OPERATING TEMPERATURE RISE

130°C [115°C] [80°C]

##### INSULATION CLASS<sup>[4]</sup>

220°C

##### ANGULAR DISPLACEMENT

Select 0° or 30° lag

##### ZERO SEQUENCE IMPEDANCE

$Z_0 < 0.95\%$ ,  $X_0 < 0.3\%$

##### PRIMARY TAPS

15kVA (and all 208V):  $\pm 1 \times 5\%$   
 30kVA - 300kVA:  $+ 2 \times 2.5\%$ ,  $- 4 \times 2.5\%$   
 500kVA:  $\pm 2 \times 2.5\%$

##### K-FACTOR CAPABILITY

20

##### CREST FACTOR CAPABILITY

4.5

##### NEUTRAL BUS AMPACITY

200% of phase current

##### ENERGY EFFICIENCY (see table below)

NEMA TP1 Compliant and better

##### MAGNETISING INRUSH

< 10 times FL RMS

##### WINDING MATERIAL

Copper

##### INSULATING VARNISH IMPREGNATION

Polyester Resin

##### AUDIBLE SOUND LEVEL

As per NEMA ST-20

15 - 45kVA: 45dB  
 75 - 150kVA: 50dB  
 225 - 300kVA: 55dB  
 500kVA: 60dB

##### ENCLOSURE

Type: NEMA-3R, ventilated  
 Paint: Polyester powder coated  
 Colour: ANSI 61 Grey

##### ELECTROSTATIC SHIELD

Single, [double]

##### APPLICABLE STANDARDS

NEMA ST20, NEMA TP1, NEMA TP2  
 CSA C9  
 CAN/CSA-C802.2

#### OPTIONS:

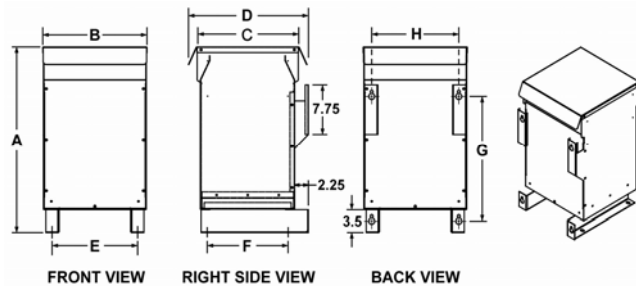
##### OVER-TEMPERATURE SENSORS

[170°C], [200°C]

##### SOLID BOTTOM PLATE (Case 'MT' only)

[yes], [no]

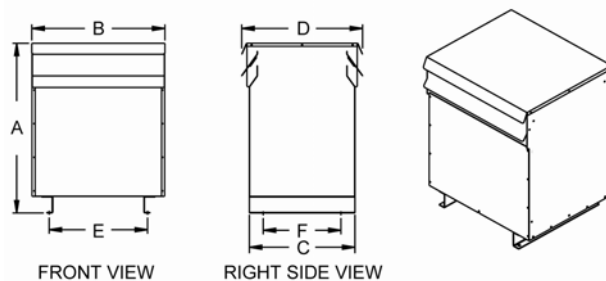
#### 'MT1', 'MT2' STYLE ENCLOSURE



#### DIMENSIONS - inches [mm]

CASE	A	B	C	D	E	F	G
MT1	29.00 [737]	16.75 [425]	15.00 [381]	19.00 [483]	13.75 [349]	13.00 [330]	19.50 [495]
MT2	38.00 [965]	21.50 [546]	19.50 [495]	23.50 [597]	17.00 [432]	17.50 [445]	25.00 [635]

#### 'MT3', 'MT4', 'LT' STYLE ENCLOSURE



#### DIMENSIONS - inches [mm]

CASE STYLE	A	B	C	D	E	F
MT3	45.00 [1143]	26.00 [661]	21.00 [534]	25.00 [635]	21.50 [546]	19.00 [483]
MT4	51.50 [1308]	32.00 [813]	25.50 [648]	29.50 [749]	23.50 [597]	23.50 [597]
LT1	59.00 [1499]	39.50 [1003]	30.00 [762]	34.00 [864]	24.00 [610]	32.00 [813]
LT2	66.00 [1677]	44.00 [1118]	34.00 [864]	38.00 [965]	26.00 [660]	36.00 [915]
LT3	75.00 [1905]	48.50 [1232]	39.00 [991]	43.00 [1092]	27.50 [699]	41.00 [1041]

#### Product Code:

**H1E t - dd - hhh - xxx - kVA - X**

Transformer Type: T = (isolation), A = (autotransformer)  
 Primary L-L Voltage: 208, 480, 600  
 Primary kVA: 15, 30, 45, 75, 112.5, 150, 225, 300, 400, 500  
 Angular Displacement: 00, 30  
 Secondary L-L Voltage: 208, 480, 600  
 Electrostatic Shield: X = (no shield), s = (single shield), ss = (double shield)

kVA Primary	Sizes		Efficiency	3 Phase Short Circuit	Impedances		Terminal Sizes				
	Case Style	Weight lb [kg] <sup>[6]</sup>	@35% - 65% Load		Z <sub>0</sub>	X <sub>0</sub>	208V	480V	600V	120/208V	Secondary Neutral
15	MT2	300 [136]	97.0%	1.5-4.0%	< 0.95%	< 0.3%	#2-#14	#6-#14	#6-#14	#6-#14	2x#2-#14
30	MT2	425 [193]	97.5%	1.5-4.0%	< 0.95%	< 0.3%	2/0-#6	#2-#14	#2-#14	2/0-#6	2x2/0-#6
45	MT2	550 [249]	97.7%	1.5-4.0%	< 0.95%	< 0.3%	250MCM-#6	#2-#14	#2-#14	250MCM-#6	2x250MCM-#6
75	MT3	800 [363]	98.0%	1.5-4.0%	< 0.95%	< 0.3%	600MCM-#2	2/0-#6	2/0-#6	600MCM-#2	2x600MCM-#2
112.5	MT4	1100 [499]	98.2%	2.5-5.0%	< 0.95%	< 0.3%	2x350MCM-#6	250MCM-#6	2/0-#6	2x350MCM-#6	4x350MCM-#6
150	MT4	1300 [590]	98.3%	2.5-5.0%	< 0.95%	< 0.3%	2x350MCM-#6	350MCM-#6	250MCM-#6	2x350MCM-#6	4x350MCM-#6
225	LT1	1900 [862]	98.5%	3.0-6.0%	< 1.0%	< 0.5%	Copper Pad	Copper Pad	Copper Pad	Copper Pad	Copper Pad
300	LT2	2600 [1179]	98.6%	3.0-6.0%	< 1.0%	< 0.5%	Copper Pad	Copper Pad	Copper Pad	Copper Pad	Copper Pad
400	LT2	2700 [1125]	98.6%	4.5-7.0%	< 1.2%	< 0.5%	Copper Pad	Copper Pad	Copper Pad	Copper Pad	Copper Pad
500	LT3	3200 [1451]	98.7%	4.5-7.0%	< 1.5%	< 1.0%	Copper Pad	Copper Pad	Copper Pad	Copper Pad	Copper Pad

#### Notes:

- Secondary winding group X lags primary group H by the angular displacement.
- For additional information refer to: Typical Specifications, Technical Guide, Internal Layout and Connection Diagrams.
- Specifications are subject to change without notice.
- 15kVA and 30kVA transformers have 200° C insulation class.
- 115° C and 80° C rise transformers may have larger case size.
- Estimated values.

