

GE
Energy Connections

Model 686MR

Current Transformer Window Diameter 7.02"

Application

Relaying and Metering.

Frequency

50-400 Hz.

Insulation Level

0.6 kV, BIL 10 kV full wave.

Continuous Thermal Current Rating Factor

50:5 thru 2,000:5: 2.0 at 30 °C. amb.,
1.5 at 55 °C. amb.

3,000:5 thru 4,000:5: 1.33 at 30 °C. amb.,
1.0 at 55 °C. amb.

Secondary terminals are brass screws
No. 10-32 with one flatwasher,
lockwasher, accessible from either side.

Approximate weight 64 lbs.



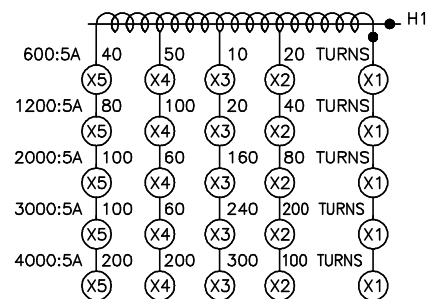
REGULATORY AGENCY APPROVALS



Manufactured to meet the requirements of ANSI/IEEE C57.13.
Classified by U.L. in accordance with IEC 44-1

Model 686MR

Catalog Number	Relay Class	ANSI Metering Class at 60 Hz
686-601MR	C200	0.3B0.9
686-122MR	C400	0.3B1.8
686-202MR	C400	0.3B1.8
686-302MR	C400	0.3B1.8
686-402MR	C400	0.3B1.8



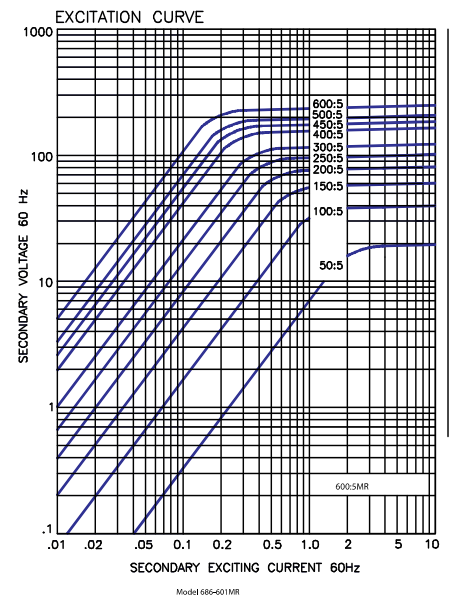
CONNECTION DIAGRAM

Model 686-601MR

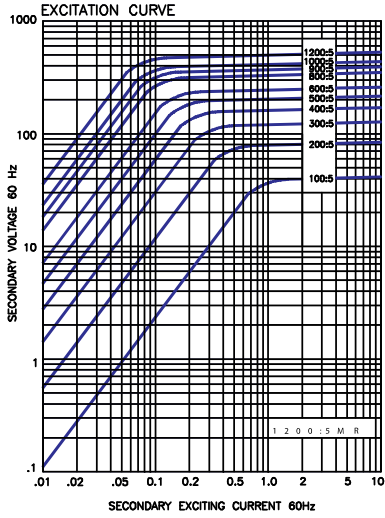
Model 686-601MR

Ratio	Tap
50:5	X2-X3
100:5	X1-X2
150:5	X1-X3
200:5	X4-X5
250:5	X3-X4
300:5	X2-X4
400:5	X1-X4
450:5	X3-X5
500:5	X2-X5
600:5	X1-X5

Ratio	DCR Ω @ 75 °C
50:5	0.029
100:5	0.057
150:5	0.086
200:5	0.117
250:5	0.147
300:5	0.176
400:5	0.235
450:5	0.265
500:5	0.294
600:5	0.352

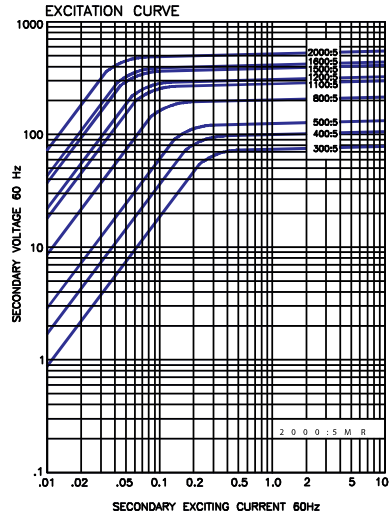


Model 686MR



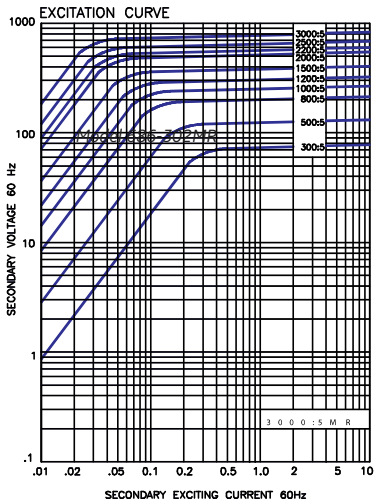
Model 686-122MR

Ratio	Tap
100:5	X2-X3
200:5	X1-X2
300:5	X1-X3
400:5	X4-X5
500:5	X3-X4
600:5	X2-X4
900:5	X3-X5
1,000:5	X2-X5
1,200:5	X1-X5
Ratio	DCR Ω @ 75 °C
100:5	0.057
200:5	0.117
300:5	0.176
400:5	0.235
500:5	0.294
600:5	0.352
800:5	0.470
900:5	0.523
1,000:5	0.587
1,200:5	0.705



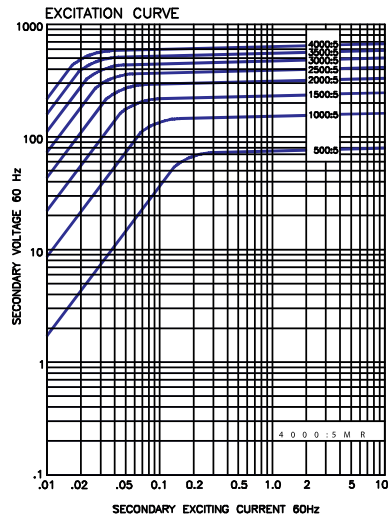
Model 686-202MR

Ratio	Tap
300:5	X3-X4
400:5	X1-X2
500:5	X4-X5
800:5	X2-X3
1,100:5	X2-X4
1,200:5	X1-X3
1,500:5	X1-X4
1,600:5	X2-X5
2,000:5	X1-X5
Ratio	DCR Ω @ 75 °C
300:5	0.156
400:5	0.208
500:5	0.260
800:5	0.415
1,100:5	0.571
1,200:5	0.623
1,500:5	0.779
1,600:5	0.831
2,000:5	1.039



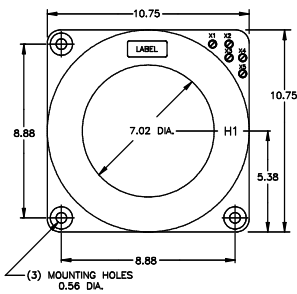
Model 686-302MR

Ratio	Tap
300:5	X3-X4
500:5	X4-X5
800:5	X3-X5
1,000:5	X1-X2
1,200:5	X2-X3
1,500:5	X2-X4
2,000:5	X2-X5
2,500:5	X1-X4
3,000:5	X1-X5
Ratio	DCR Ω @ 75 °C
300:5	0.156
500:5	0.260
800:5	0.415
1,100:5	0.519
1,200:5	0.623
1,500:5	0.779
2,000:5	1.039
2,200:5	1.143
2,500:5	1.298
3,000:5	1.558



Model 686-402MR

Ratio	Tap
500:5	X1-X2
1,000:5	X3-X4
1,500:5	X2-X3
2,000:5	X1-X3
2,500:5	X2-X4
3,000:5	X1-X4
3,500:5	X2-X5
4,000:5	X1-X5
Ratio	DCR Ω @ 75 °C
500:5	0.245
1,000:5	0.489
1,500:5	0.734
2,000:5	0.978
2,500:5	1.223
3,000:5	1.467
3,500:5	1.712
4,000:5	1.956



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