

Transformers

General Purpose Transformers in Enclosures

Dry-Type/Cased

Isolated
General Purpose
Single-Phase

General Information

The complete family of transformers from GE provide quiet, reliable transformer operation.

All of the dry-type transformers through 1,000 kVA are UL listed under the requirements of Standard 506 and 1561. In addition, each transformer meets the requirements of NEMA ST-20, 1992. Type QB, QMS, and QMS 3 models are C-UL listed.

General-purpose transformers are rated 600 Volts and below for supplying appliance, lighting, and power loads from electrical distribution systems. Standard distribution voltages are 600, 480, and 240 Volts; standard load voltages are 480, 240, 208, and 120 Volts. The transformer is used to obtain the load voltage from the distribution voltage. Since no vaults are required for installation, these transformers can be located right at the load to provide the correct voltage for the application. This eliminates the need for long, costly, low-voltage feeders.

Construction—Types QB, QMS, and QMS 3

Core and coils are contained within a NEMA 3R nonventilated weatherproof enclosure. Type QB, QMS, and QMS 3 units feature encapsulated core and coils.



Type QB, .050 kVA-3 kVA, Single-Phase



Type QMS, 5 kVA-25 kVA, Single-Phase

.050 - 3 kVA Indoor/Outdoor Type QB UL Listed C-UL Listed

Input Voltage	Output Voltage	KVA	Frequency (Hz)	Taps	Wiring Diagram No. ¹	Product Number	GO-90A
240 x 480 Volts, 480 Volts	120/240 Volts	0.05	60 Hz	No taps	1	9T51B0002	
240 x 480 Volts	120/240 Volts	0.05	50/60 Hz	No taps	1	9T51B0502	
240 x 480 Volts, 480 Volts	120/240 Volts	0.075	60 Hz	No taps	1	9T51B0003	
240 x 480 Volts	120/240 Volts	0.075	50/60 Hz	No taps	1	9T51B0503	
240 x 480 Volts, 480 Volts	120/240 Volts	0.1	60 Hz	No taps	1	9T51B0004	
240 x 480 Volts	120/240 Volts	0.1	50/60 Hz	No taps	1	9T51B0504	
240 x 480 Volts, 480 Volts	120/240 Volts	0.15	60 Hz	No taps	1	9T51B0005	
240 x 480 Volts	120/240 Volts	0.15	50/60 Hz	No taps	1	9T51B0505	
240 x 480 Volts, 480 Volts	120/240 Volts	0.25	60 Hz	No taps	1	9T51B0007	
240 x 480 Volts	120/240 Volts	0.25	50/60 Hz	No taps	1	9T51B0507	
240 x 480 Volts, 480 Volts	120/240 Volts	0.5	60 Hz	No taps	1	9T51B0008	
240 x 480 Volts	120/240 Volts	0.5	50/60 Hz	No taps	1	9T51B0508	
240 x 480 Volts, 480 Volts	120/240 Volts	0.75	60 Hz	No taps	1	9T51B0009	
240 x 480 Volts	120/240 Volts	0.75	50/60 Hz	No taps	1	9T51B0509	
240 x 480 Volts, 480 Volts	120/240 Volts	1	60 Hz	No taps	1	9T51B0010	
240 x 480 Volts	120/240 Volts	1	50/60 Hz	No taps	1	9T51B0510	
240 x 480 Volts, 480 Volts	120/240 Volts	1.5	60 Hz	No taps	1	9T51B0011	
240 x 480 Volts	120/240 Volts	1.5	50/60 Hz	No taps	1	9T51B0511	
240 x 480 Volts, 480 Volts	120/240 Volts	2	60 Hz	No taps	1	9T51B0012	
240 x 480 Volts	120/240 Volts	2	50/60 Hz	No taps	1	9T51B0512	
240 x 480 Volts, 480 Volts	120/240 Volts	3	60 Hz	No taps	1	9T51B0013	
240 x 480 Volts	120/240 Volts	3	50/60 Hz	No taps	1	9T51B0513	
480 Volts	120/240 Volts	0.25	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0547	
480 Volts	120/240 Volts	0.5	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0548	
480 Volts	120/240 Volts	0.75	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0549	
480 Volts	120/240 Volts	1	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0050	
480 Volts	120/240 Volts	1	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0550	
480 Volts	120/240 Volts	1.5	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0051	
480 Volts	120/240 Volts	1.5	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0551	
480 Volts	120/240 Volts	2	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0052	
480 Volts	120/240 Volts	2	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0552	
480 Volts	120/240 Volts	3	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0053	
480 Volts	120/240 Volts	3	60 Hz	(4) 2 1/2% taps: 2 above and 2 below rated primary volts	3	9T51B0135	
480 Volts	120/240 Volts	3	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0553	

¹See page 14-14 for wiring diagrams.



Transformers

General Purpose Transformers in Enclosures

Section 14

Dry-Type/Cased

Isolated

General Purpose

Single-Phase

.050 - 3 kVA Indoor/Outdoor Type QB UL Listed C-UL Listed (Continued)

Input Voltage	Output Voltage	KVA	Frequency (Hz)	Taps	Wiring Diagram No. ¹	Product Number	GO-90A
600 Volts	120/240 Volts	0.05	60 Hz	No taps	5	9T51B0082	
600 Volts	120/240 Volts	0.075	60 Hz	No taps	5	9T51B0083	
600 Volts	120/240 Volts	0.1	60 Hz	No taps	5	9T51B0084	
600 Volts	120/240 Volts	0.1	50/60 Hz	No taps	5	9T51B0584	
600 Volts	120/240 Volts	0.15	60 Hz	No taps	5	9T51B0085	
600 Volts	120/240 Volts	0.25	60 Hz	No taps	5	9T51B0087	
600 Volts	120/240 Volts	0.25	50/60 Hz	No taps	5	9T51B0587	
600 Volts	120/240 Volts	0.25	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0567	
600 Volts	120/240 Volts	0.5	60 Hz	No taps	5	9T51B0088	
600 Volts	120/240 Volts	0.5	50/60 Hz	No taps	5	9T51B0588	
600 Volts	120/240 Volts	0.5	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0568	
600 Volts	120/240 Volts	0.75	60 Hz	No taps	5	9T51B0089	
600 Volts	120/240 Volts	0.75	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0569	
600 Volts	120/240 Volts	1	60 Hz	No taps	5	9T51B0090	
600 Volts	120/240 Volts	1	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0070	
600 Volts	120/240 Volts	1	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0570	
600 Volts	120/240 Volts	1.5	60 Hz	No taps	5	9T51B0091	
600 Volts	120/240 Volts	1.5	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0071	
600 Volts	120/240 Volts	1.5	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0571	
600 Volts	120/240 Volts	2	60 Hz	No taps	5	9T51B0092	
600 Volts	120/240 Volts	2	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0072	
600 Volts	120/240 Volts	2	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0572	
600 Volts	120/240 Volts	3	60 Hz	No taps	5	9T51B0093	
600 Volts	120/240 Volts	3	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0073	
600 Volts	120/240 Volts	3	50/60 Hz	(2) 5% taps below rated primary volts	2	9T51B0573	

5 - 25 kVA Indoor/Outdoor Type QMS 115°C Rise UL Listed C-UL Listed

Input Voltage	Output Voltage	KVA	Frequency (Hz)	Taps	Wiring Diagram No. ¹	Product Number	GO-90C
240 x 480 Volts	120/240 Volts	5	60 Hz	No taps	1	9T21B1004G02	
240 x 480 Volts, 480 Volts	120/240 Volts	5	50/60 Hz	No taps	1	9T21B1055G02	
240 x 480 Volts	120/240 Volts	7.5	60 Hz	No taps	1	9T21B1005G02	
240 x 480 Volts, 480 Volts	120/240 Volts	7.5	50/60 Hz	No taps	1	9T21B1056G02	
240 x 480 Volts	120/240 Volts	10	60 Hz	No taps	1	9T21B1006G02	
240 x 480 Volts, 480 Volts	120/240 Volts	10	50/60 Hz	No taps	1	9T21B1057G02	
240 x 480 Volts	120/240 Volts	15	60 Hz	No taps	1	9T21B9103	
240 x 480 Volts, 480 Volts	120/240 Volts	15	50/60 Hz	No taps	1	9T21B9133	
240 x 480 Volts	120/240 Volts	25	60 Hz	No taps	1	9T21B9104	
240 x 480 Volts, 480 Volts	120/240 Volts	25	50/60 Hz	No taps	1	9T21B9134	
480 Volts	120/240 Volts	5	60 Hz	(2) 5% taps below rated primary volts	2	9T21B1007G02	
480 Volts	120/240 Volts	5	60 Hz	(4) 2 1/2% taps: 2 above and 2 below rated primary volts	3	9T21B1013G02	
480 Volts	120/240 Volts	7.5	60 Hz	(2) 5% taps below rated primary volts	2	9T21B1008G02	
480 Volts	120/240 Volts	7.5	60 Hz	(4) 2 1/2% taps: 2 above and 2 below rated primary volts	3	9T21B1014G02	
480 Volts	120/240 Volts	10	60 Hz	(2) 5% taps below rated primary volts	2	9T21B1009G02	
480 Volts	120/240 Volts	10	60 Hz	(4) 2 1/2% taps: 2 above and 2 below rated primary volts	3	9T21B1015G02	
480 Volts	120/240 Volts	15	60 Hz	(2) 5% taps below rated primary volts	2	9T21B9105	
480 Volts	120/240 Volts	15	60 Hz	(4) 2 1/2% taps: 2 above and 2 below rated primary volts	3	9T21B9109	
480 Volts	120/240 Volts	25	60 Hz	(2) 5% taps below rated primary volts	2	9T21B9106	
480 Volts	120/240 Volts	25	60 Hz	(4) 2 1/2% taps: 2 above and 2 below rated primary volts	3	9T21B9110	
600 Volts	120/240 Volts	5	60 Hz	No taps	5	9T21B1016G02	
600 Volts	120/240 Volts	5	60 Hz	(2) 5% taps below rated primary volts	2	9T21B1019G02	
600 Volts	120/240 Volts	7.5	60 Hz	No taps	5	9T21B1017G02	
600 Volts	120/240 Volts	7.5	60 Hz	(2) 5% taps below rated primary volts	2	9T21B1020G02	
600 Volts	120/240 Volts	10	60 Hz	No taps	5	9T21B1018G02	
600 Volts	120/240 Volts	10	60 Hz	(2) 5% taps below rated primary volts	2	9T21B1021G02	
600 Volts	120/240 Volts	15	60 Hz	No taps	5	9T21B9111	
600 Volts	120/240 Volts	15	60 Hz	(2) 5% taps below rated primary volts	2	9T21B9113	
600 Volts	120/240 Volts	25	60 Hz	No taps	5	9T21B9112	
600 Volts	120/240 Volts	25	60 Hz	(2) 5% taps below rated primary volts	2	9T21B9114	

¹See page 14-14 for wiring diagrams.



Transformers

General Purpose Transformers in Enclosures

Dry-Type/Cased

Isolated
General Purpose
Single-Phase

Section 14

.050 - 3 kVA Indoor/Outdoor Type QB UL Listed C-UL Listed

Input Voltage	Output Voltage	KVA	Frequency (Hz)	Taps	Wiring Diagram No. ¹	Product Number
120 x 240 Volts	120/240 Volts	0.05	60 Hz	No taps	1	9T51B0022
120 x 240 Volts	120/240 Volts	0.1	60 Hz	No taps	1	9T51B0024
120 x 240 Volts	120/240 Volts	0.15	60 Hz	No taps	1	9T51B0025
120 x 240 Volts	120/240 Volts	0.25	60 Hz	No taps	1	9T51B0027
120 x 240 Volts	120/240 Volts	0.5	60 Hz	No taps	1	9T51B0028
120 x 240 Volts	120/240 Volts	0.75	60 Hz	No taps	1	9T51B0029
120 x 240 Volts	120/240 Volts	1	60 Hz	No taps	1	9T51B0030
120 x 240 Volts	120/240 Volts	1.5	60 Hz	No taps	1	9T51B0031
120 x 240 Volts	120/240 Volts	2	60 Hz	No taps	1	9T51B0032
120 x 240 Volts	120/240 Volts	3	60 Hz	No taps	1	9T51B0033
208 Volts	120/240 Volts	0.5	60 Hz	No taps	4	9T51B0158
208 Volts	120/240 Volts	0.75	60 Hz	No taps	4	9T51B0159
208 Volts	120/240 Volts	1	60 Hz	No taps	4	9T51B0160
208 Volts	120/240 Volts	2	60 Hz	No taps	4	9T51B0156
208 Volts	120/240 Volts	3	60 Hz	No taps	4	9T51B0157

5 - 25 kVA Indoor/Outdoor Type QMS 115°C Rise UL Listed C-UL Listed

Input Voltage	Output Voltage	KVA	Frequency (Hz)	Taps	Wiring Diagram No. ¹	Product Number
120 x 240 Volts	120/240 Volts	5	60 Hz	No taps	1	9T21B1001G02
120 x 240 Volts	120/240 Volts	7.5	60 Hz	No taps	1	9T21B1002G02
120 x 240 Volts	120/240 Volts	10	60 Hz	No taps	1	9T21B1003G02
120 x 240 Volts	120/240 Volts	15	60 Hz	No taps	1	9T21B9101
120 x 240 Volts	120/240 Volts	25	60 Hz	No taps	1	9T21B9102
208 Volts	120/240 Volts	5	60 Hz	No taps	4	9T21B1028G02
208 Volts	120/240 Volts	7.5	60 Hz	No taps	4	9T21B1029G02
208 Volts	120/240 Volts	10	60 Hz	No taps	4	9T21B1030G02
208 Volts	120/240 Volts	15	60 Hz	No taps	4	9T21B9119
208 Volts	120/240 Volts	25	60 Hz	No taps	4	9T21B9120

.050 - 3 kVA Indoor/Outdoor Type QB UL Listed C-UL Listed

Input Voltage	Output Voltage	KVA	Frequency (Hz)	Taps	Wiring Diagram No. ¹	Product Number	GO-90A
277 Volts	120/240 Volts	0.25	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0187	
277 Volts	120/240 Volts	0.5	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0188	
277 Volts	120/240 Volts	0.75	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0189	
277 Volts	120/240 Volts	1	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0190	
277 Volts	120/240 Volts	1.5	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0191	
277 Volts	120/240 Volts	2	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0192	
277 Volts	120/240 Volts	3	60 Hz	(2) 5% taps below rated primary volts	2	9T51B0193	
380/400/416 Volts	120/240 Volts	0.05	50/60 Hz	No taps	2	9T51B0162	
380/400/416 Volts	120/240 Volts	0.15	50/60 Hz	No taps	2	9T51B0165	
380/400/416 Volts	120/240 Volts	0.25	50/60 Hz	No taps	2	9T51B0167	
380/400/416 Volts	120/240 Volts	0.5	50/60 Hz	No taps	2	9T51B0168	
380/400/416 Volts	120/240 Volts	0.75	50/60 Hz	No taps	2	9T51B0169	
380/400/416 Volts	120/240 Volts	1	50/60 Hz	No taps	2	9T51B0170	
380/400/416 Volts	120/240 Volts	1.5	50/60 Hz	No taps	2	9T51B0171	
380/400/416 Volts	120/240 Volts	2	50/60 Hz	No taps	2	9T51B0172	
380/400/416 Volts	120/240 Volts	3	50/60 Hz	No taps	2	9T51B0173	

5 - 25 kVA Indoor/Outdoor Type QMS 115°C Rise UL Listed C-UL Listed

Input Voltage	Output Voltage	KVA	Frequency (Hz)	Taps	Wiring Diagram No. ¹	Product Number	GO-90C
277 Volts	120/240 Volts	5	60 Hz	(2) 5% taps below rated primary volts	2	9T21B1046G02	
277 Volts	120/240 Volts	7.5	60 Hz	(2) 5% taps below rated primary volts	2	9T21B1047G02	
277 Volts	120/240 Volts	10	60 Hz	(2) 5% taps below rated primary volts	2	9T21B1048G02	
277 Volts	120/240 Volts	15	60 Hz	(2) 5% taps below rated primary volts	2	9T21B9143	
277 Volts	120/240 Volts	25	60 Hz	(2) 5% taps below rated primary volts	2	9T21B9144	

¹See page 14-14 for wiring diagrams.



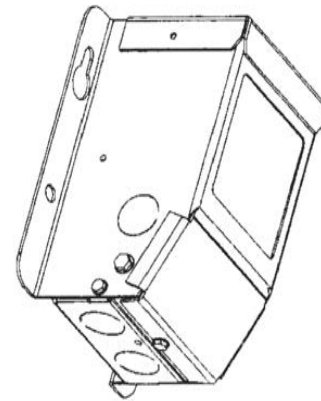
Transformers

General Purpose Transformers in Enclosures

Section 14

Type QB

Isolated
CE-Rated



CE Compliant Transformer

Safety Isolation 50/60 Hz

Input Voltage	Output Voltage	KVA	Frame Size	Depth (in)	Width (in)	Height (in)	Product Number
230/400 Volts	12/24 Volts	0.075	8	4.25	6.12	7.38	9T51E0023
230/400 Volts	12/24 Volts	0.15	8	4.25	6.12	7.38	9T51E0025
230/400 Volts	12/24 Volts	0.25	10	4.88	6.88	8.35	9T51E0027

Isolation 50/60 Hz

Input Voltage	Output Voltage	KVA	Frame Size	Depth (in)	Width (in)	Height (in)	Product Number
230/400 Volts	24/48 Volts	0.2	10	4.88	6.88	8.35	9T51E0066
230/400 Volts	24/48 Volts	0.3	10	4.88	6.88	8.35	9T51E0068
230/400 Volts	24/48 Volts	0.75	14	6.72	9.38	11.12	9T51E0073

Isolation (Triple-Rated) 50/60 Hz

Input Voltage	Output Voltage	KVA	Frame Size	Depth (in)	Width (in)	Height (in)	Product Number
220/380, 230/400, 240/415 Volts	110/220, 115/230, 120/240 Volts	0.1	8	4.25	6.12	7.38	9T51E0154
220/380, 230/400, 240/415 Volts	110/220, 115/230, 120/240 Volts	0.15	8	4.25	6.12	7.38	9T51E0155
220/380, 230/400, 240/415 Volts	110/220, 115/230, 120/240 Volts	0.2	10	4.88	6.88	8.35	9T51E0156
220/380, 230/400, 240/415 Volts	110/220, 115/230, 120/240 Volts	0.25	10	4.88	6.88	8.35	9T51E0157
220/380, 230/400, 240/415 Volts	110/220, 115/230, 120/240 Volts	0.3	10	4.88	6.88	8.35	9T51E0158
220/380, 230/400, 240/415 Volts	110/220, 115/230, 120/240 Volts	0.375	12	5.5	7.88	9.62	9T51E0159
220/380, 230/400, 240/415 Volts	110/220, 115/230, 120/240 Volts	0.5	12	5.5	7.88	9.62	9T51E0161
220/380, 230/400, 240/415 Volts	110/220, 115/230, 120/240 Volts	0.1	14	6.72	9.38	11.12	9T51E0164
220/380, 230/400, 240/415 Volts	110/220, 115/230, 120/240 Volts	0.15	14	6.72	9.38	11.12	9T51E0165

For additional voltage requirements and available QMS single-phase CE designs, contact your GE Sales Office or GE authorized distributor.



Transformers

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Dry-Type/Cased

Dimensions and Weights

Type QB Single-Phase 60, 50/60 Hz

KVA	Height (in)	Width (in)	Depth (in)	Approx. Net Weight (lbs.)
0.05	6.38	5.13	3.25	6
0.075	6.38	5.13	3.25	6
0.1	6.38	5.13	3.25	6
0.15	7.38	6.13	4.25	10
0.25	7.38	6.13	4.25	10
0.5	8.38	6.88	4.88	16
0.75	9.63	7.88	5.5	25
1	9.63	7.88	5.5	25
1.5	11.13	9.38	6.72	40
2	11.13	9.38	6.72	40
3	11.13	9.38	6.72	60

Type QMS Single-Phase 60 Hz 115°C Rise

KVA	Height (in)	Width (in)	Depth (in)	Approx. Net Weight (lbs.)
5	14.5	10.75	11.16	100
7.5	17.12	10.75	11.16	180
10	17.10	12.16	12.72	180
15	17.10	12.16	12.72	230
25	19.84	16.01	15.68	400

Type QMS Single-Phase 50/60 Hz 115°C Rise

KVA	Height (in)	Width (in)	Depth (in)	Approx. Net Weight (lbs.)
5	14.5	10.75	11.16	115
7.5	17.12	10.75	11.16	174
10	17.10	12.16	12.72	230
15	17.10	12.16	12.72	265
25	19.84	16.01	15.68	440

Conversion Chart

Decimal	Fraction
.13	1/8
.38	3/8
.63	5/8
.88	7/8



Transformers
General Purpose Transformers in Enclosures
Dry-Type/Cased
 Wiring Diagrams

Section 14

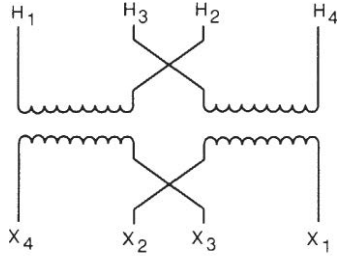


Diagram 1

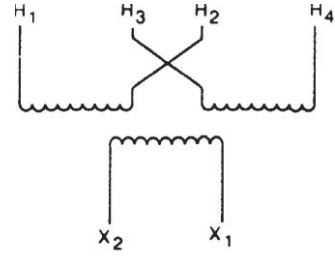


Diagram 4

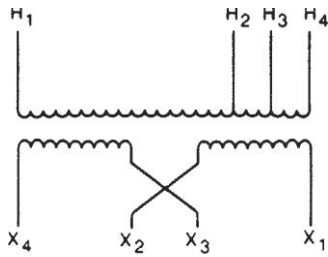


Diagram 2

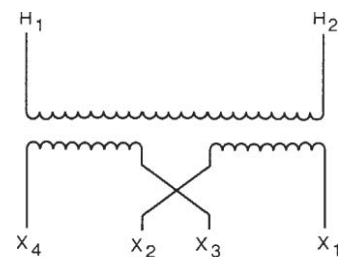


Diagram 5

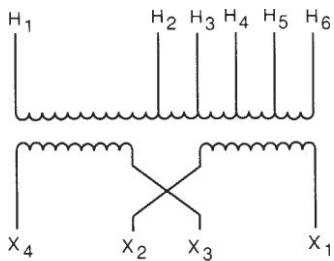


Diagram 3

