

Dry Type Transformers

General Purpose

Aluminum

Three-Phase TP-1

Section 10

Advantages

- Quiet performance
- No-weld design – an industry first
- Comprehensive factory testing assures quality
- Easy, fast installation saves time
- Clear, comprehensive documentation and labeling enhance safety

Key Features

- Unique core and coil design makes QL transformers among the quietest available
- Core and coil assemblies are mounted on rubber isolation pads to reduce noise
- Bolted coil terminations are more reliable than welded terminations, and they eliminate weld failures and problems associated with welding and weld splatter
- Single-piece front/back is easily removable for service
- Accessible mounting flanges with front/back slotted mounting holes make installation easier
- 100% factory tested for shorts and coil integrity, current and loss, voltage, impedance and noise.
- NEMA 2 powder-coat drip-proof enclosure is standard. Weathershield kit is available for conversion to NEMA 3R outdoor.
- NEMA 3R stainless steel enclosure is available up to 150kVA. To specify a stainless steel enclosure, substitute an “S” in the fifth character in the GE catalog number. Example: 9T83B3874 changes to 9T83S3874.



Type QL Transformer

- Seismic qualified to the requirements of ASCE 7.05, IEEE-693-2005 and IBC-2006
- Copper or aluminum windings
- Copper ground strap
- Robust packaging with top and side protection protects against shipping damage

Applications

- Commercial
- Industrial
- Motors
- Incandescent lighting
- Resistance heating
- Motor generators (without solid state drives)

Transformer Selection Guide

	Standard	Guard I	Guard II	Guard III	K-Factor (K=4)	K-Factor (K=13)	K-Factor (K=20)	K-Factor (K=30)	DIT	Service Center	TENV	Stainless Steel (type 316) Enclosure
Motors	X	X			X							
Incandescent Lighting	X	X			X							
Resistance Heating	X	X			X							
Motor Generators (without solid state drives)	X	X			X							
HID Lighting					X							
Induction Heaters					X							
Welders					X							
UPS with optional input filtering					X							
PLC & Solid state controls					X							
Multiple receptacle circuits in health care facilities						X						
UPS without optional input filtering						X						
Production or assembly line equipment						X						
Schools & Classroom facilities						X						
Surge Suppression			X									
Office Buildings		X	X	X		X						
SCR Variable Speed Drives							X	X				
Circuits with exclusive data processing equipment			X	X		X	X					
Critical Care facilities			X	X		X	X					
Hospital Operating Rooms			X	X		X	X					
X-ray equipment			X	X		X	X					
Computer Installations			X	X		X	X					
Programmable Controllers			X	X		X	X					
Instrumentation			X	X		X	X					
AC or DC Variable Speed Drives									X			
Rectifier outputs									X			
Temporary Power										X		
Airborne contaminants or dust-laden environments (indoor and outdoor)											X	
Corrosive environments including water/wastewater and salt spray												X



Dry Type Transformers Dimensions

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1-Phase Vented QL Transformers

Frame Size	Outline Drawing No.	Height (in.)	Width (in.)	Depth (in.)
YF171	303B406AAP071	32.1	23.8	18.4
YF172	303B406AAP072	35.7	31.8	24
XV173	303B406AAP073	35.7	31.8	24
YF174	303B406AAP074	39.9	31.8	24
YF175	303B932AAP075	37.4	29.5	28.5
YF176	303B932AAP076	45.5	38.5	33
YF177	303B932AAP077	45.5	38.5	33

3-Phase, Vented, Non-Fan Cooled QL Transformers (9T8, 9T7, 9T6 models)

Includes General Purpose, K-Factor, K-Factor Low Noise, Low Noise, Guard I, Midtapped, Drive Isolation

Frame Size	Outline Drawing	Height (in.)	Width (in.)	Depth (in.)
XV371	303B401AAP071	27.3	18.7	16.9
Y371A	303B401AAP071	27.3	18.7	16.9
Y371C	303B401AAP071	27.3	18.7	16.9
XV372	303B401AAP072	32.1	23.8	18.4
XK372	303B401AAP072	32.1	23.8	18.4
Y372A	303B401AAP072	32.1	23.8	18.4
Y372C	303B401AAP072	32.1	23.8	18.4
XV373	303B401AAP073	32.1	23.8	18.4
Y373A	303B401AAP073	32.1	23.8	18.4
Y373C	303B401AAP073	32.1	23.8	18.4
XV374	303B401AAP074	35.7	31.8	24
Y374A	303B401AAP074	35.7	31.8	24
Y374C	303B401AAP074	35.7	31.8	24
XV375	303B401AAP075	39.9	31.8	24
Y375C	303B401AAP075	39.9	31.8	24
XV376	303B401AAP076	45.9	34.8	24
Y376C	303B401AAP076	45.9	34.8	24
L47AA	303B912AAP167	65.7	57.7	48.2
L37AA	303B912AAP177	45.4	38.4	33
L38AA	303B912AAP178	57.1	38.4	33
L39AA	303B912AAP179	65.7	47.1	38
XV377	303B919AAP077	45.5	38.5	33
Y377A	303B919AAP077	45.5	38.5	33
YF378	303B919AAP178	57.1	38.5	33
YF379	303B919AAP179	65.7	47.3	38

3-Phase Fan-Cooled TransforMore™ Transformers (9T4-models)

Includes General Purpose, K-Factor, K-Factor Low Noise, Low Noise, Guard I, Midtapped, and Drive Isolation

Frame Size	Outline Drawing	Height (in.)	Width (in.)	Depth (in.)
FC77	303B899AAP077	37.3	29.5	28.5
FC78	303B899AAP078	40.9	34.8	25.6
FC79	303B899AAP079	45.4	38.5	33.6
FC67	303B899AAP067	57.5	47.5	40
FC68	303B899AAP068	57.5	47.5	40

Servicenter Transformers

Frame Size	Outline Drawing	Height (in.)	Width (in.)	Depth (in.)
16350	303B915AAP005	32.5	10.75	11.12
16600	303B915AAP007	32.5	10.75	11.12
19400	303B915AAP010	35	12.62	12.62
19500	303B915AAP015	35	12.62	12.62
50500	303B915AAP025	44.75	16.75	16
XV371	303B404AAP015	27.3	27.4	16.9
XV372	303B404AAP022	32.2	34.5	24
XV372	303B404AAP030	32.2	34.5	24
Y371C	303B404AAP015	27.3	27.4	16.9
Y372C	303B404AAP022	32.2	34.5	24
Y372C	303B404AAP030	32.2	34.5	24



QL Transformer
(Front Panel Removed)



TransforMore™ Transformer

QMS Transformers

Frame Size	Outline Drawing	Height (in.)	Width (in.)	Depth (in.)
16350	303B923AAP005	14.5	10.62	11
16400	303B923AAP005	14.5	10.62	11
16450	303B923AAP005	14.5	10.62	11
16600	303B923AAP007	17.06	10.62	11
19400	303B923AAP010	17.06	12.5	12.5
19450	303B923AAP010	17.06	12.5	12.5
19500	303B915AAP015	35	12.62	12.62
1619	303B922AAP001	14.50	10.75	11.12
1620	303B922AAP001	14.50	10.75	11.12
1921	303B922AAP003	17.12	12.62	12.75
1923	303B922AAP004	18.81	14.75	14.53
50500	303B915AAP025	44.75	16.75	16

Guard II Transformers

Frame Size	Outline Drawing No.	Height (in.)	Width (in.)	Depth (in.)
XV371	303B403AAP071	34.5	18.7	16.9
XV372	303B403AAP072	41.3	23.8	18.4
XV373	303B403AAP073	41.3	23.8	18.4
XV374	303B403AAP074	44.8	31.8	24
XV375	303B403AAP075	49.1	31.8	24

Guard III Harmonic Mitigating

Frame Size	Outline Drawing No.	Height (in.)	Width (in.)	Depth (in.)
H371C	303B431AAP071	32.3	23.8	18.4
H372C	303B431AAP072	35.7	31.8	24
H373C	303B431AAP073	35.7	31.8	24
H374C	303B431AAP074	39.9	31.8	24
H375C	303B931AAP075	45.5	38.6	33
H376C	303B931AAP076	45.4	38.5	33

TENV Transformers

Frame Size	Outline Drawing No.	Height (in.)	Width (in.)	Depth (in.)
XV372	303B405AAP072	41.3	23.8	18.4
XV373	303B405AAP073	41.3	23.8	18.4
XV374	303B405AAP074	44.8	31.8	24
XV375	303B405AAP075	49.1	31.8	24

QB Transformers

Frame Size	Outline Drawing No.	Height (in.)	Width (in.)	Depth (in.)
6100	303B920AAP001	6.38	5.12	3.25
6150	303B920AAP001	6.38	5.12	3.25
6200	303B920AAP001	6.38	5.12	3.25
8175	303B920AAP002	7.38	6.12	4.25
8200	303B920AAP002	7.38	6.12	4.25
10200	303B920AAP003	8.38	6.88	4.88
10225	303B920AAP003	8.38	6.88	4.88
12200	303B920AAP004	9.62	7.88	5.5
12225	303B920AAP004	9.62	7.88	5.5
12275	303B920AAP004	9.62	7.88	5.5
12300	303B920AAP004	9.62	7.88	5.5
14200	303B920AAP005	11.12	9.38	6.72
14225	303B920AAP005	11.12	9.38	6.72
14250	303B920AAP005	11.12	9.38	6.72
14300	303B920AAP005	11.12	9.38	6.72
14350	303B920AAP005	11.12	9.38	6.72
14400	303B920AAP005	11.12	9.38	6.72



Dry Type Transformers

General Purpose Encapsulated

Single-Phase NEMA 3R

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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	Weight (Lbs)	Frame Size	Product Number
120 x 240 Volts	120/240 Volts	5	60 Hz	No Taps	1	103	16350	9T21B1001G02
120 x 240 Volts	120/240 Volts	7.5	60 Hz	No Taps	1	147	16600	9T21B1002G02
120 x 240 Volts	120/240 Volts	10	60 Hz	No Taps	1	198	19400	9T21B1003G02
120 x 240 Volts	120/240 Volts	10	60 Hz	No Taps	1	198	19400	9T21B1054G02
120 x 240 Volts	120/240 Volts	15	60 Hz	No Taps	1	220	19500	9T21B9101
120 x 240 Volts	120/240 Volts	15	60 Hz	No Taps	1	233	19550	9T21B9131
120 x 240 Volts	120/240 Volts	25	60 Hz	No Taps	1	233	19550	9T21B9102
208 Volts	120/240 Volts	5	60 Hz	No Taps	4	103	16350	9T21B1028G02
208 Volts	120/240 Volts	7.5	60 Hz	No Taps	4	147	16600	9T21B1029G02
208 Volts	120/240 Volts	10	60 Hz	No Taps	4	198	19400	9T21B1030G02
208 Volts	120/240 Volts	15	60 Hz	No Taps	4	220	19500	9T21B9119
208 Volts	120/240 Volts	25	60 Hz	No Taps	4	388	50500	9T21B9120

¹See page 10-45 for wiring diagrams.

²For Outdoor NEMA 3R Enclosure add suffix G62 to product number.

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	Weight (Lbs)	Frame Size	Product Number
277 Volts	120/240 Volts	5	60 Hz	(-2 5.1%)	2	103	16350	9T21B1046G02
277 Volts	120/240 Volts	5	60 Hz	(-2 2.5%)	2	103	16350	9T21B1265G02
277 Volts	120/240 Volts	7.5	60 Hz	(-2 5.1%)	2	147	16600	9T21B1047G02
277 Volts	120/240 Volts	10	60 Hz	(-2 5.1%)	2	198	19400	9T21B1048G02
277 Volts	120/240 Volts	10	60 Hz	(-2 2.5%)	2	198	19400	9T21B1266G02
277 Volts	120/240 Volts	15	60 Hz	(-2 5.1%)	2	220	19500	9T21B9143
277 Volts	120/240 Volts	25	60 Hz	(-2 4.7%)	2	388	50500	9T21B9144

¹See page 10-45 for wiring diagrams.

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	Weight (Lbs)	Frame Size	Product Number
240 x 480 Volts	120/240 Volts	5	60	No Taps	1	103	16350	9T21B1004G02
240 x 480 Volts	120/240 Volts	5	50	No Taps	1	115	16400	9T21B1055G02
240 x 480 Volts	120/240 Volts	7.5	60	No Taps	1	147	16600	9T21B1005G02
240 x 480 Volts	120/240 Volts	7.5	50	No Taps	1	174	16600	9T21B1056G02
240 x 480 Volts	120/240 Volts	10	60	No Taps	1	198	19400	9T21B1006G02
240 x 480 Volts	120/240 Volts	10	50	No Taps	1	198	19400	9T21B1057G02
240 x 480 Volts	120/240 Volts	15	60	No Taps	1	220	19500	9T21B9103
240 x 480 Volts	120/240 Volts	15	50	No Taps	1	233	19550	9T21B9133
240 x 480 Volts	120/240 Volts	25	60	No Taps	1	388	50500	9T21B9104
240 x 480 Volts	120/240 Volts	25	50	No Taps	1	428	50600	9T21B9134
480 Volts	120/240 Volts	5	60	(-2 5.0%)	2	103	16350	9T21B1007G02
480 Volts	120/240 Volts	5	60	(+2,-2 2.5%)	3	103	16350	9T21B1013G02
480 Volts	120/240 Volts	7.5	60	(-2 5.0%)	2	147	16600	9T21B1008G02
480 Volts	120/240 Volts	7.5	60	(+2,-2 2.5%)	3	147	16600	9T21B1014G02
480 Volts	120/240 Volts	10	60	(-2 4.9%)	2	198	19400	9T21B1009G02
480 Volts	120/240 Volts	10	60	(+2,-2 2.6%)	3	198	19400	9T21B1015G02
480 Volts	120/240 Volts	15	60	(-2 5.0%)	2	220	19500	9T21B9105
480 Volts	120/240 Volts	15	60	(+2,-2 2.5%)	3	220	19500	9T21B9109
480 Volts	120/240 Volts	25	60	(-2 5.0%)	2	388	50500	9T21B9106
480 Volts	120/240 Volts	25	60	(+2,-2 2.5%)	3	388	50500	9T21B9110
600 Volts	120/240 Volts	5	60	No Taps	5	103	16350	9T21B1016G02
600 Volts	120/240 Volts	5	60	(-2 5.0%)	2	103	16350	9T21B1019G02
600 Volts	120/240 Volts	5	60	(+2,-2 2.5%)		107	16350	9T21B1025G02
600 Volts	120/240 Volts	7.5	60	(-2 5.0%)	2	147	16600	9T21B1020G02
600 Volts	120/240 Volts	10	60	(-2 4.9%)	2	198	19400	9T21B1021G02
600 Volts	120/240 Volts	15	60	No Taps	5	220	19500	9T21B9111
600 Volts	120/240 Volts	15	60	(-2 4.8%)	2	220	19500	9T21B9113
600 Volts	120/240 Volts	25	60	(-2 5.0%)	2	388	50500	9T21B9114

¹See page 10-45 for wiring diagrams..

