

Dry Type Transformers

Low Noise

Aluminum

Three-Phase TP-1

Product Description

These low noise transformers are designed to operate at reduced noise levels. The vibrations within the magnetic steel core were greatly reduced, thus lowering the humming of the transformer from 3 to 5 dB less than NEMA/ANSI standards. Available in Aluminum or Copper windings, with either a 150°C, 115°C or 80°C rise.

Application

Type QL low noise transformers are ideal when quiet operation is required such as near offices, in school buildings, or hospitals. Although they are inherently quieter, installation can greatly influence their noise level and therefore care should be taken in following acoustical principles as well as proper installation procedures. Closets and corners should be avoided as they act as megaphones by seemingly increasing noise levels.



Type QL Low Noise Transformer (front panel removed)

150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No. ¹	Approx Net Weight (Lbs)	Frame Size	Product Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4 2.5%)	12	240	XV371	9T83B3141
480 Volts Delta	208Y/120 Volts	30	(+2, -4 2.5%)	12	334	Y372A	9T83B3142
480 Volts Delta	208Y/120 Volts	45	(+2, -4 2.5%)	12	415	XV373	9T83B3143
480 Volts Delta	208Y/120 Volts	75	(+2, -4 2.5%)	12	620	XV374	9T83B3144
480 Volts Delta	208Y/120 Volts	112.5	(+2, -4 2.5%)	12	765	XV375	9T83B3145
480 Volts Delta	208Y/120 Volts	150	(+2, -4 2.5%)	12	1070	XV376	9T83B3146
480 Volts Delta	208Y/120 Volts	225	(+2, -4 2.5%)	12	1590	XV377	9T83B3147
480 Volts Delta	208Y/120 Volts	300	(+2, -4 2.5%)	12	1820	YF378	9T83B3148
480 Volts Delta	208Y/120 Volts	500	(+2, -2 2.5%)	12	3400	YF379	9T83B3149

115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No. ¹	Approx Net Weight (Lbs)	Frame Size	Product Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4 2.5%)	12	240	XV371	9T83B3141G15
480 Volts Delta	208Y/120 Volts	30	(+2, -4 2.5%)	12	334	XV372	9T83B3142G15
480 Volts Delta	208Y/120 Volts	45	(+2, -4 2.5%)	12	415	XV373	9T83B3143G15
480 Volts Delta	208Y/120 Volts	75	(+2, -4 2.5%)	12	620	XV374	9T83B3144G15
480 Volts Delta	208Y/120 Volts	112.5	(+2, -4 2.5%)	12	1070	XV376	9T83B3145G15
480 Volts Delta	208Y/120 Volts	150	(+2, -4 2.5%)	12	1590	XV377	9T83B3146G15
480 Volts Delta	208Y/120 Volts	225	(+2, -4 2.5%)	12	1820	YF378	9T83B3147G15
480 Volts Delta	208Y/120 Volts	300	(+2, -4 2.5%)	12			

80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No. ¹	Approx Net Weight (Lbs)	Frame Size	Product Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4 2.5%)	12	334	XV372	9T83B3141G80
480 Volts Delta	208Y/120 Volts	30	(+2, -4 2.5%)	12	415	XV373	9T83B3142G80
480 Volts Delta	208Y/120 Volts	45	(+2, -4 2.5%)	12	620	XV374	9T83B3143G80
480 Volts Delta	208Y/120 Volts	75	(+2, -4 2.5%)	12	765	XV375	9T83B3144G80
480 Volts Delta	208Y/120 Volts	112.5	(+2, -4 2.5%)	12			
480 Volts Delta	208Y/120 Volts	150	(+2, -4 2.5%)	12			
480 Volts Delta	208Y/120 Volts	225	(+2, -4 2.5%)	12	1820	YF378	9T83B3147G80
480 Volts Delta	208Y/120 Volts	75	(+2, -4 2.5%)	12	765	XV375	9T83B3874G90

¹See page 10-45 for wiring diagrams.



Dry Type Transformers

Low Noise

Copper

Three-Phase TP-1

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150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No. ¹	Approx Net Weight (Lbs)	Frame Size	Product Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4 2.5%)	12	250	XV371	9T83C9141
480 Volts Delta	208Y/120 Volts	30	(+2, -4 2.5%)	12	377	XV372	9T83C9142
480 Volts Delta	208Y/120 Volts	45	(+2, -4 2.5%)	12	490	XV373	9T83C9143
480 Volts Delta	208Y/120 Volts	75	(+2, -4 2.5%)	12	710	XV374	9T83C9144
480 Volts Delta	208Y/120 Volts	112.5	(+2, -4 2.5%)	12	949	XV375	9T83C9145
480 Volts Delta	208Y/120 Volts	150	(+2, -4 2.5%)	12	1190	XV376	9T83C9146
480 Volts Delta	208Y/120 Volts	225	(+2, -4 2.5%)	12	1710	XV377	9T83C9147
480 Volts Delta	208Y/120 Volts	300	(+2, -4 2.5%)	12	3150	YF378	9T83C9148
480 Volts Delta	208Y/120 Volts	500	(+2, -2 2.5%)	12	4050	YF379	9T83C9149

115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No. ¹	Approx Net Weight (Lbs)	Frame Size	Product Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4 2.5%)	12	250	XV371	9T83C9141G15
480 Volts Delta	208Y/120 Volts	30	(+2, -4 2.5%)	12	377	XV372	9T83C9142G15
480 Volts Delta	208Y/120 Volts	45	(+2, -4 2.5%)	12	490	XV373	9T83C9143G15
480 Volts Delta	208Y/120 Volts	75	(+2, -4 2.5%)	12	710	XV374	9T83C9144G15
480 Volts Delta	208Y/120 Volts	112.5	(+2, -4 2.5%)	12	949	XV375	9T83C9145G15
480 Volts Delta	208Y/120 Volts	150	(+2, -4 2.5%)	12	1710	XV377	9T83C9146G15
480 Volts Delta	208Y/120 Volts	225	(+2, -4 2.5%)	12	3150	YF378	9T83C9147G15
480 Volts Delta	208Y/120 Volts	75	(+2, -4 2.5%)	12	710	XV374	9T83C9874G20
480 Volts Delta	208Y/120 Volts	112.5	(+2, -4 2.5%)	12	949	XV375	9T83C9875G20
480 Volts Delta	208Y/120 Volts	300	(+2, -4 2.5%)	12	4050	L39AA	9T83C9878G20

80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No. ¹	Approx Net Weight (Lbs)	Frame Size	Product Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4 2.5%)	12	377	XV372	9T83C9141G80
480 Volts Delta	208Y/120 Volts	30	(+2, -4 2.5%)	12	490	XV373	9T83C9142G80
480 Volts Delta	208Y/120 Volts	45	(+2, -4 2.5%)	12	710	XV374	9T83C9143G80
480 Volts Delta	208Y/120 Volts	75	(+2, -4 2.5%)	12	949	XV375	9T83C9144G80
480 Volts Delta	208Y/120 Volts	112.5	(+2, -4 2.5%)	12	1190	XV376	9T83C9145G80
480 Volts Delta	208Y/120 Volts	150	(+2, -4 2.5%)	12			
480 Volts Delta	208Y/120 Volts	225	(+2, -4 2.5%)	12	3150	YF378	9T83C9147G80
480 Volts Delta	208Y/120 Volts	300	(+2, -4 2.5%)	12			

¹See page 10-45 for wiring diagrams.



Dry Type Transformers Noise Isolation – Guard I (Electrostatic Shield)

Section 10

Aluminum Three-Phase TP-1

150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No. ¹	Approx Net Weight (Lbs)	Frame Size	Product Number
480	208Y/120	15	(+2, -4 2.5%)	12	240	XV371	9T83B3871G03
480	208Y/120	30	(+2, -4 2.5%)	12	334	XV372	9T83B3872G03
480	208Y/120	45	(+2, -4 2.5%)	12	415	XV373	9T83B3873G03
480	208Y/120	75	(+2, -4 2.5%)	12	620	XV374	9T83B3874G03
480	208Y/120	112.5	(+2, -4 2.5%)	12	765	XV375	9T83B3875G03
480	208Y/120	150	(+2, -4 2.5%)	12	1070	XV376	9T83B3876G03
480	208Y/120	225	(+2, -4 2.5%)	12	1590	XV377	9T83B3877G03
480	208Y/120	300	(+2, -4 2.5%)	12	1820	YF378	9T83B3878G03
480	208Y/120	500	(+2, -2 2.5%)	12	3400	YF379	9T83B3879G03
480	208Y/120	750	(+2, -2 2.5%)	12	3250	FC67	9T40G0010G03
480	208Y/120	1000	(+2, -2 2.5%)	12	3250	FC68	9T40G0011G03

115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No. ¹	Approx Net Weight (Lbs)	Frame Size	Product Number
480	208Y/120	15	(+2, -4 2.5%)	12	240	XV371	9T83B3871G13
480	208Y/120	30	(+2, -4 2.5%)	12	334	XV372	9T83B3872G13
480	208Y/120	45	(+2, -4 2.5%)	12	415	XV373	9T83B3873G13
480	208Y/120	75	(+2, -4 2.5%)	12	620	XV374	9T83B3874G13
480	208Y/120	112.5	(+2, -4 2.5%)	12	1070	XV376	9T83B3875G13
480	208Y/120	150	(+2, -4 2.5%)	12	1590	XV377	9T83B3876G13
480	208Y/120	225	(+2, -4 2.5%)	12	1820	YF378	9T83B3877G13
480	208Y/120	300	(+2, -4 2.5%)	12	3400	L39AA	9T83B3878G13
480	208Y/120	500	(+2, -2 2.5%)	12	3250	FC67	9T40G0009G53

80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No. ¹	Approx Net Weight (Lbs)	Frame Size	Product Number
480	208Y/120	15	(+2, -4 2.5%)	12	334	XV372	9T83B3871G83
480	208Y/120	30	(+2, -4 2.5%)	12	415	XV373	9T83B3872G83
480	208Y/120	45	(+2, -4 2.5%)	12	620	XV374	9T83B3873G83
480	208Y/120	75	(+2, -4 2.5%)	12	765	XV375	9T83B3874G83
480	208Y/120	112.5	(+2, -4 2.5%)	12	1590	XV377	9T83B3875G83
480	208Y/120	150	(+2, -4 2.5%)	12	850	FC77	9T40G0006G83
480	208Y/120	225	(+2, -4 2.5%)	12	1820	YF378	9T83B3877G83
480	208Y/120	300	(+2, -4 2.5%)	12	3400	L39AA	9T83B3878G83

¹See page 10-45 for wiring diagrams.

Note: Product numbers beginning with 9T4 have fan-assisted cooling.



Dry Type Transformers Noise Isolation – Guard I (Electrostatic Shield)

Section 10

Copper

Three-Phase TP-1

150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No. ¹	Approx Net Weight (Lbs)	Frame Size	Product Number
480	208Y/120	15	(+2, -4 2.5%)	12	250	XV371	9T83C9871G03
480	208Y/120	30	(+2, -4 2.5%)	12	377	XV372	9T83C9872G03
480	208Y/120	45	(+2, -4 2.5%)	12	490	XV373	9T83C9873G03
480	208Y/120	75	(+2, -4 2.5%)	12	710	XV374	9T83C9874G03
480	208Y/120	112.5	(+2, -4 2.5%)	12	949	XV375	9T83C9875G03
480	208Y/120	150	(+2, -4 2.5%)	12	1190	XV376	9T83C9876G03
480	208Y/120	225	(+2, -4 2.5%)	12	1710	XV377	9T83C9877G03
480	208Y/120	300	(+2, -4 2.5%)	12	3150	YF378	9T83C9878G03
480	208Y/120	500	(+2, -2 2.5%)	12	4050	YF379	9T83C9879G03
480	208Y/120	750	(+2, -2 2.5%)	12	4030	FC67	9T45G0010G03
480	208Y/120	1000	(+2, -2 2.5%)	12	4030	FC68	9T45G0011G03

115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No. ¹	Approx Net Weight (Lbs)	Frame Size	Product Number
480	208Y/120	15	(+2, -4 2.5%)	12	250	XV371	9T83C9871G13
480	208Y/120	30	(+2, -4 2.5%)	12	377	XV372	9T83C9872G13
480	208Y/120	45	(+2, -4 2.5%)	12	490	XV373	9T83C9873G13
480	208Y/120	75	(+2, -4 2.5%)	12	710	XV374	9T83C9874G13
480	208Y/120	112.5	(+2, -4 2.5%)	12	949	XV375	9T83C9875G13
480	208Y/120	150	(+2, -4 2.5%)	12	1710	XV377	9T83C9876G13
480	208Y/120	225	(+2, -4 2.5%)	12	3150	YF378	9T83C9877G13
480	208Y/120	300	(+2, -4 2.5%)	12	4050	L39AA	9T83C9878G13

80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No. ¹	Approx Net Weight (Lbs)	Frame Size	Product Number
480	208Y/120	15	(+2, -4 2.5%)	12	377	XV372	9T83C9871G83
480	208Y/120	30	(+2, -4 2.5%)	12	490	XV373	9T83C9872G83
480	208Y/120	45	(+2, -4 2.5%)	12	710	XV374	9T83C9873G83
480	208Y/120	75	(+2, -4 2.5%)	12	949	XV375	9T83C9874G83
480	208Y/120	112.5	(+2, -4 2.5%)	12	1190	XV376	9T83C9875G83
480	208Y/120	150	(+2, -4 2.5%)	12	1710	XV377	9T83C9876G83
480	208Y/120	225	(+2, -4 2.5%)	12	3150	YF378	9T83C9877G83
480	208Y/120	300	(+2, -4 2.5%)	12	4050	L39AA	9T83C9878G83

¹See page 10-45 for wiring diagrams.

