

3PH Series

Three Phase Transformers

The 3PH Series of Three Phase Dry Type Transformers offers mechanically rigid units in a durable construction, adaptable to multiple industrial, commercial, manufacturing and medical requirements.

These rugged and robust isolation transformers are designed and configured for DELTA primary and WYE secondary. DELTA supplies greater current balance from the source and WYE provides a neutral point to supply line- neutral voltages. WYE also offers multiple voltages without the need for additional transformers.

A value-added electrostatic shield (ESS) between primary and secondary, attenuates line noise by preventing feed-through of undesirable signals, while the inherent input to output isolation provision enables safe operation for other circuits away from power ground.



General Features

- Laminations of high quality silicon steel to minimize core loss and optimize performance
- Copper magnet wire for efficient operation
- UL 1015 600 V 105°C PVC stranded lead wires
- CBB where applicable
- Copper foil shield (ESS)
- Small footprint

Specifications

- 130°C max. temperature rise
- 4 kVAC hi-pot
- 50/60 Hz frequency operation
- 180°C insulation system
- 2 - 35 kVA ratings
- 500 VAC max. input
- 70 Arms max. load current
- >93% efficiency

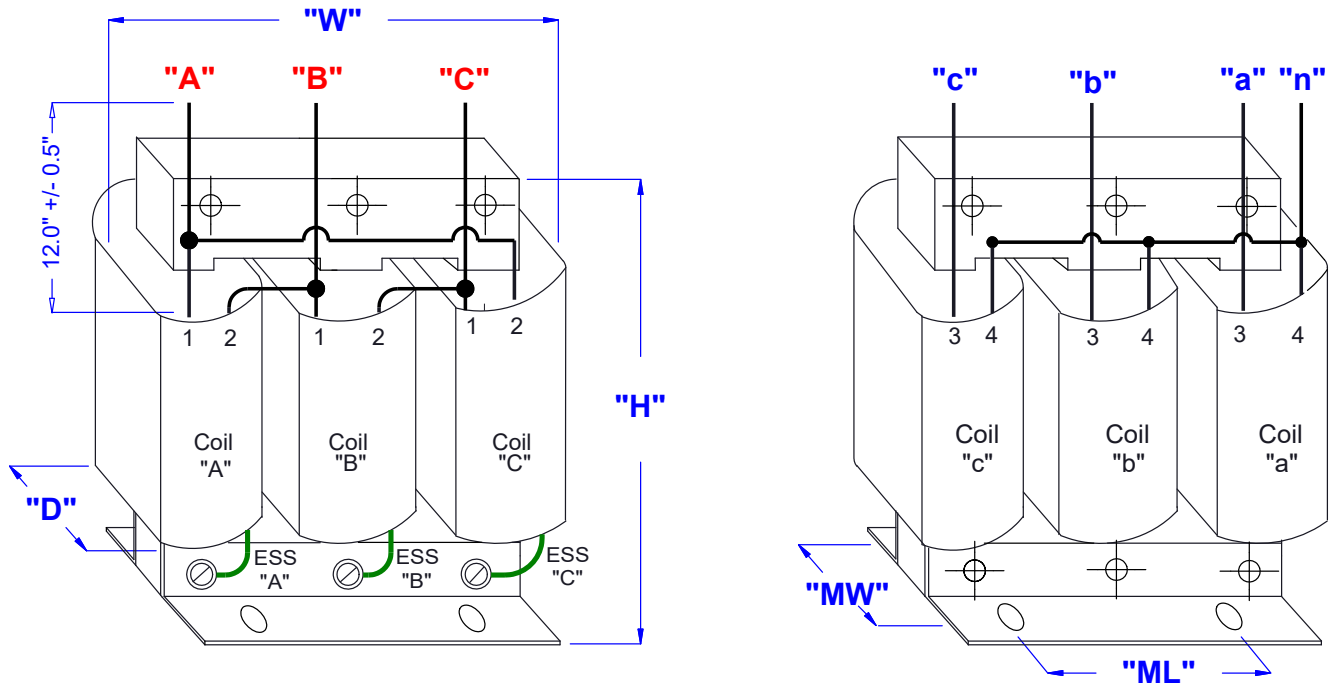
Standards & Certifications

- UL Recognized to UL 60601, File #E151299 (construction only)
- UL Recognized Class H 180°C insulation system, File #E66312

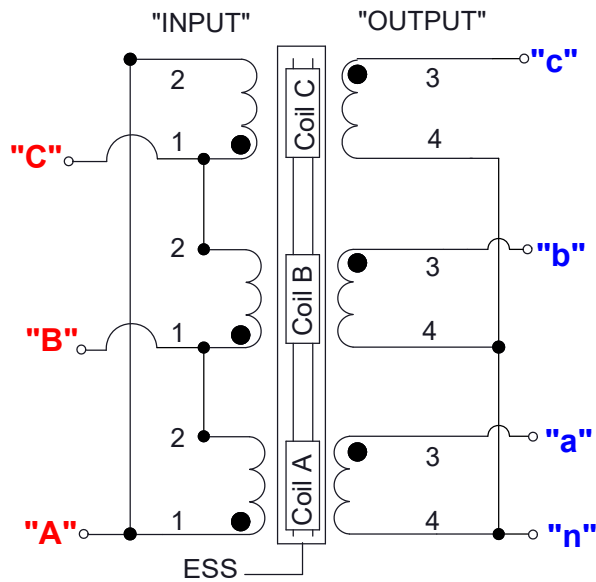
Industry Standards

- Performance meets/exceeds requirements of ANSI/NEMA ST-1
- Regulation exceeds ANSI/NEMA requirements for all ratings
- All 3PH Series transformers are built and tested in accordance with applicable ANSI & IEEE standards

MECHANICAL SKETCH



ELECTRICAL DIAGRAM



Custom versions available upon request.



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PRODUCT SELECTION GUIDE

PART NUMBER	INPUT	OUTPUT	POWER	“W”	“D”	“H”	“ML”	“MW”	WEIGHT
	(DELTA)	(WYE)	(kVA)	(inch)	(inch)	(inch)	(inch)	(inch)	(lb)
	50/60 Hz L-L (V)	L-L (V) / L-N (V)	nom	max	max	max	range	range	max
3PH-2-1208-208/120	208	208/120	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-1220-360/208	220	360/208	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-1240-416/240	240	416/240	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-1380-480/277	380	480/277	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-1416-380/220	416	380/220	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-1440-400/230	440	400/230	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-1480-480/277	480	480/277	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-1220T-360/208	220/208	360/208	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-1240T-416/240	240/220	416/240	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-1416T-380/220	416/380	380/220	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-1440T-400/230	440/416	400/230	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-1480T-480/277	480/440	480/277	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-2208-208/120	2 x 208	208/120	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-2220-360/208	2 x 220	360/208	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-2240-400/230	2 x 240	400/230	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-2-2240-480/277	2 x 240	480/277	2	9.13	6.13	6.93	4.37 - 4.51	4.50 - 4.76	58
3PH-4-1208-208/120	208	208/120	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-1220-360/208	220	360/208	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-1240-416/240	240	416/240	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-1380-480/277	380	480/277	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-1416-380/220	416	380/220	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-1440-400/230	440	400/230	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-1480-480/277	480	480/277	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-1220T-360/208	220/208	360/208	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-1240T-416/240	240/220	416/240	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-1416T-380/220	416/380	380/220	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-1440T-400/230	440/416	400/230	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-1480T-480/277	480/440	480/277	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-2208-208/120	2 x 208	208/120	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-2220-360/208	2 x 220	360/208	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-2240-400/230	2 x 240	400/230	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-4-2240-480/277	2 x 240	480/277	4	9.13	9.50	6.93	4.37 - 4.51	7.87 - 8.13	108
3PH-8-1208-208/120	208	208/120	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-1220-360/208	220	360/208	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-1240-416/240	240	416/240	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-1380-480/277	380	480/277	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-1416-380/220	416	380/220	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-1440-400/230	440	400/230	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-1480-480/277	480	480/277	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-1220T-360/208	220/208	360/208	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-1240T-416/240	240/220	416/240	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-1416T-380/220	416/380	380/220	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-1440T-400/230	440/416	400/230	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-1480T-480/277	480/440	480/277	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-2208-208/120	2 x 208	208/120	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-2220-360/208	2 x 220	360/208	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-2240-400/230	2 x 240	400/230	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183
3PH-8-2240-480/277	2 x 240	480/277	8	12.73	10.85	8.28	7.13 - 7.33	9.12 - 9.38	183

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PART NUMBER	INPUT	OUTPUT	POWER	"W"	"D"	"H"	"ML"	"MW"	WEIGHT
	DELTA	WYE	(kVA)	(inch)	(inch)	(inch)	(inch)	(inch)	(lb)
	50/60 Hz L-L (V)	L-L (V) / L-N (V)	nom	max	max	max	range	range	max
3PH-12-1208-208/120	208	208/120	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-1220-360/208	220	360/208	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-1240-416/240	240	416/240	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-1380-480/277	380	480/277	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-1416-380/220	416	380/220	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-1440-400/230	440	400/230	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-1480-480/277	480	480/277	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-1220T-360/208	220/208	360/208	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-1240T-416/240	240/220	416/240	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-1416T-380/220	416/380	380/220	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-1440T-400/230	440/416	400/230	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-1480T-480/277	480/440	480/277	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-2208-208/120	2 x 208	208/120	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-2220-360/208	2 x 220	360/208	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-2240-400/230	2 x 240	400/230	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-12-2240-480/277	2 x 240	480/277	12	14.63	9.00	11.13	7.93 - 8.07	7.93 - 8.07	220
3PH-16-1208-208/120	208	208/120	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-1220-360/208	220	360/208	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-1240-416/240	240	416/240	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-1380-480/277	380	480/277	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-1416-380/220	416	380/220	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-1440-400/230	440	400/230	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-1480-480/277	480	480/277	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-1220T-360/208	220/208	360/208	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-1240T-416/240	240/220	416/240	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-1416T-380/220	416/380	380/220	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-1440T-400/230	440/416	400/230	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-1480T-480/277	480/440	480/277	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-2208-208/120	2 x 208	208/120	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-2220-360/208	2 x 220	360/208	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-2240-400/230	2 x 240	400/230	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-16-2240-480/277	2 x 240	480/277	16	14.63	11.00	11.13	7.93 - 8.07	9.87 - 10.13	308
3PH-20-1208-208/120	208	208/120	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-1220-360/208	220	360/208	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-1240-416/240	240	416/240	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-1380-480/277	380	480/277	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-1416-380/220	416	380/220	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-1440-400/230	440	400/230	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-1480-480/277	480	480/277	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-1220T-360/208	220/208	360/208	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-1240T-416/240	240/220	416/240	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-1416T-380/220	416/380	380/220	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-1440T-400/230	440/416	400/230	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-1480T-480/277	480/440	480/277	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-2208-208/120	2 x 208	208/120	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-2220-360/208	2 x 220	360/208	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-2240-400/230	2 x 240	400/230	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381
3PH-20-2240-480/277	2 x 240	480/277	20	14.63	13.00	11.13	7.93 - 8.07	11.87 - 12.13	381

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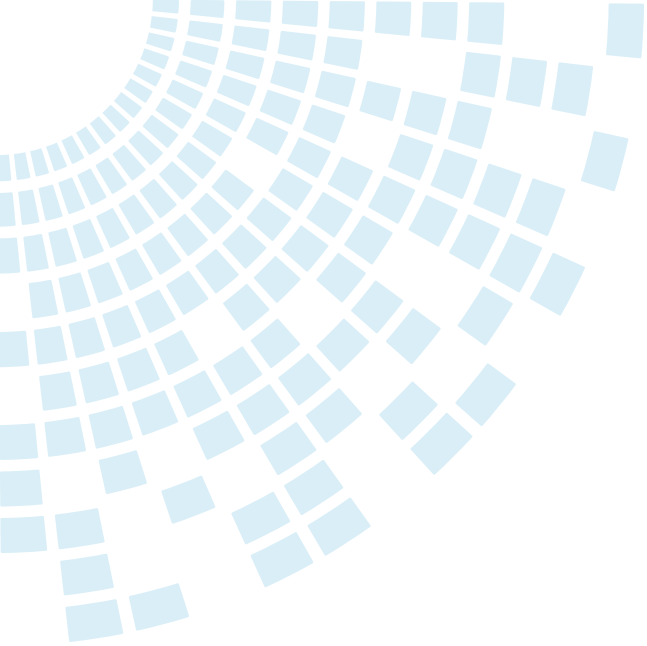
PART NUMBER	INPUT	OUTPUT	POWER	"W"	"D"	"H"	"ML"	"MW"	WEIGHT
	DELTA	WYE	(kVA)	(inch)	(inch)	(inch)	(inch)	(inch)	(lb)
	50/60 Hz L-L (V)	L-L (V) / L-N (V)	nom	max	max	max	range	range	max
3PH-25-1208-208/120	208	208/120	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-1220-360/208	220	360/208	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-1240-416/240	240	416/240	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-1380-480/277	380	480/277	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-1416-380/220	416	380/220	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-1440-400/230	440	400/230	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-1480-480/277	480	480/277	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-1220T-360/208	220/208	360/208	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-1240T-416/240	240/220	416/240	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-1416T-380/220	416/380	380/220	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-1440T-400/230	440/416	400/230	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-1480T-480/277	480/440	480/277	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-2208-208/120	2 x 208	208/120	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-2220-360/208	2 x 220	360/208	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-2240-400/230	2 x 240	400/230	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-25-2240-480/277	2 x 240	480/277	25	19.63	9.00	14.88	8.93 - 9.07	6.87 - 7.13	360
3PH-30-1208-208/120	208	208/120	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-1220-360/208	220	360/208	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-1240-416/240	240	416/240	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-1380-480/277	380	480/277	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-1416-380/220	416	380/220	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-1440-400/230	440	400/230	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-1480-480/277	480	480/277	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-1220T-360/208	220/208	360/208	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-1240T-416/240	240/220	416/240	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-1416T-380/220	416/380	380/220	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-1440T-400/230	440/416	400/230	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-1480T-480/277	480/440	480/277	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-2208-208/120	2 x 208	208/120	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-2220-360/208	2 x 220	360/208	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-2240-400/230	2 x 240	400/230	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-30-2240-480/277	2 x 240	480/277	30	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	450
3PH-35-1208-208/120	208	208/120	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-1220-360/208	220	360/208	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-1240-416/240	240	416/240	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-1380-480/277	380	480/277	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-1416-380/220	416	380/220	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-1440-400/230	440	400/230	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-1480-480/277	480	480/277	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-1220T-360/208	220/208	360/208	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-1240T-416/240	240/220	416/240	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-1416T-380/220	416/380	380/220	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-1440T-400/230	440/416	400/230	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-1480T-480/277	480/440	480/277	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-2208-208/120	2 x 208	208/120	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-2220-360/208	2 x 220	360/208	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-2240-400/230	2 x 240	400/230	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460
3PH-35-2240-480/277	2 x 240	480/277	35	19.63	10.50	14.88	8.93 - 9.07	8.37 - 8.63	460

Custom versions available upon request.



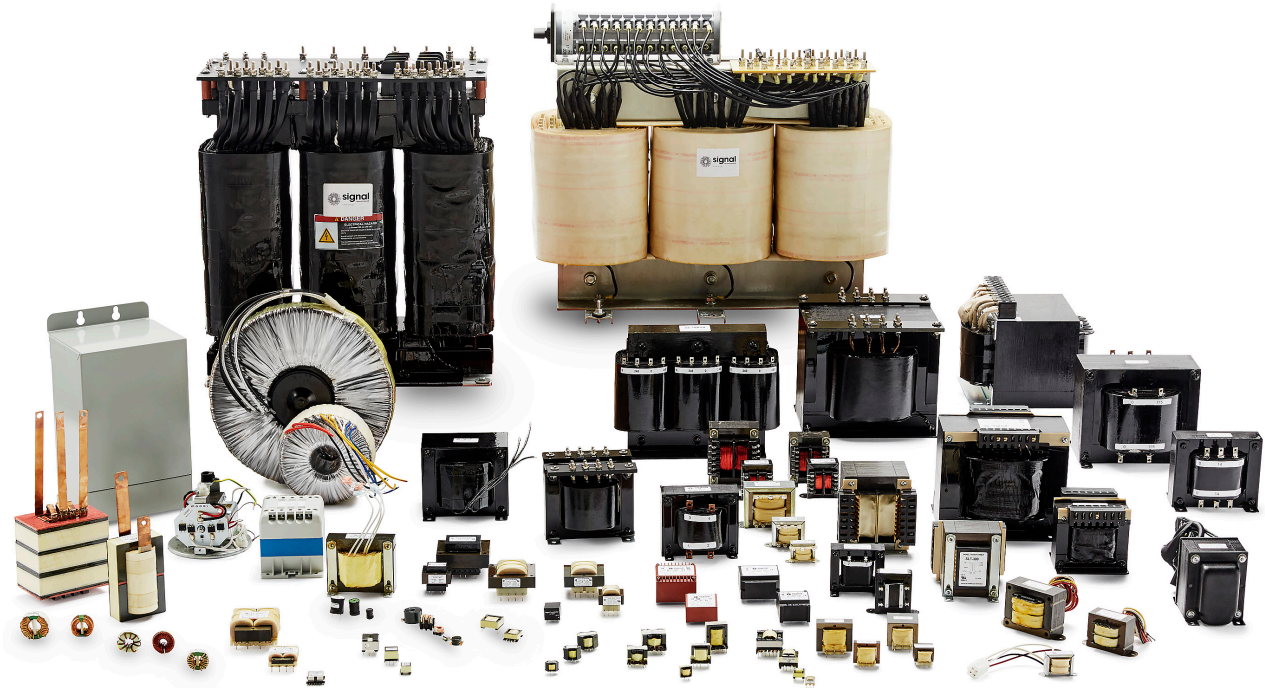
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About Signal Transformer

Signal Transformer is known as the world's leader of wire wound magnetic solutions since 1959. With over 50 years of experience manufacturing transformers, chokes, inductors and custom or modified standard products. Signal offers not only the most comprehensive line of certified standard power conversion products, with our vast engineering, manufacturing and regulatory resources; Signal Transformer excels in the design and manufacturer of cost effective, specialized platforms.



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