

Product Overview

General Purpose and Industrial Control Transformers Selection Guide



Description	General Purpose Transformers	Industrial Control Transformers
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General applications	Typically used to step-down voltage from a high voltage to a lower, safer voltage. Commonly installed in or on other electrical equipment, such as machinery, switchboards, and motor control centers. Also installed as loose equipment.	Typically used to step-down voltage to a level suitable to operate a variety of electrically controlled devices. Must be installed inside an enclosure, panel, or other structure to provide protection from the surroundings.
Maximum primary voltage rating	600 Vac	600 Vac
Frequency	60 Hz standard (50/60 Hz optional)	50/60 Hz
Enclosure rating	Type 3R raintight	Open
Insulation system	180°C (356°F)	105°C (221°F)/130°C (266°F)/180°C (356°F)
Temperature rise		
Standard	115°C (239°F)	55°C (131°F)/80°C (176°F)/120°C (248°F)
Optional	80°C (176°F)	—
Approvals	UL® 506, UL 1561, CSA® C22.2	UL 506, CSA C22.2
Ratings		
50 VA	37.5 kVA single-phase	50 to 5,000 VA
3 kVA	75 kVA three-phase	—

General Purpose Transformers



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Features

- Totally enclosed non-ventilated Type 3R enclosure
- 180°C insulation system
- Suitable for indoor or outdoor applications
- UL listed and CSA certified

Catalog Number Selection

General Purpose Transformers

General Purpose

Prefix Options				Prefix Options			
C = CSA labeled ventilated transformer				C = CSA labeled ventilated transformer			
Marine Duty				Marine Duty			
QS = EPM marine (1-Ph encapsulated)				QS = EPM marine (1-Ph encapsulated)			
LY = EPTM Marine (3-Ph encapsulated)				LY = EPTM Marine (3-Ph encapsulated)			
RT = DS-3M marine (1-Ph ventilated)				RT = DS-3M marine (1-Ph ventilated)			
MV = DT-3M marine (3-Ph ventilated)				MV = DT-3M marine (3-Ph ventilated)			
Type				Type			
S = EP (single-phase encapsulated)				S = EP (single-phase encapsulated)			
Y = EPT (three-phase encapsulated)				Y = EPT (three-phase encapsulated)			
T = DS-3 (single-phase ventilated)				T = DS-3 (single-phase ventilated)			
V = DT-3 (three-phase ventilated)				V = DT-3 (three-phase ventilated)			
P = Mini-power center				P = Mini-power center			
Z = Class 1 Division 2 Groups C and D				Z = Class 1 Division 2 Groups C and D			
X = Harmonic mitigating (three-phase ventilated)				X = Harmonic mitigating (three-phase ventilated)			
Nonlinear (three-phase ventilated)		Nonlinear (single-phase ventilated)		Nonlinear (three-phase ventilated)		Nonlinear (single-phase ventilated)	
H = KT-4		J = KT-30		HT = KT-4		JT = KT-30	
B = KT-9		A = KT-40		NT = KT-13		AT = KT-40	
N = KT-13		K = KT-50		GT = KT-20		KT = KT-50	
G = KT-20							
Primary Voltage				Primary Voltage			
13 = 110 x 220		23 = 230		43 = 416		42 = 2400	
12 = 120		24 = 240		44 = 440		46 = 4160	
10 = 120 x 240		20 = 240 x 480		45 = 450		49 = 4800	
29 = 208		27 = 277		48 = 480		40 = Export model	
72 = 200		38 = 380		57 = 575		54 = 120/208/240/277	
25 = 220		39 = 400		60 = 600			
Secondary Voltage				Secondary Voltage			
04 = 12/24		28 = 208Y/120		21 = 240/480		48 = 480 delta	
06 = 16/32		29 = 208		27 = 277		60 = 600 delta	
08 = 24/48		25 = 220 delta		38 = 380 delta		61 = 600Y/346	
14 = 110/220		31 = 220Y/127		37 = 380Y/220		42 = 2400	
12 = 120		26 = 220 delta/110 midtap		34 = 400Y/231		41 = 4160Y/2400	
10 = 120 x 240		22 = 240 delta/120 midtap		51 = 416Y/240		46 = 4160	
11 = 120/240		64 = 240Y/139		35 = 440Y/254		49 = 4800	
54 = 127/254		24 = 240 delta		62 = 460Y/266			
19 = 190Y/110		20 = 240 x 480		47 = 480Y/277			
kVA				kVA			
81 = 0.05		07 = 7.5		12 = 112.5			
85 = 0.075		09 = 9		49 = 150			
82 = 0.10		10 = 10		67 = 167			
83 = 0.15		15 = 15		22 = 225			
26 = 0.25		21 = 22.5		52 = 250			
51 = 0.50		25 = 25		33 = 300			
76 = 0.75		30 = 30		54 = 333			
01 = 1		37 = 37.5		55 = 500			
16 = 1.5		45 = 45		60 = 600			
02 = 2		50 = 50		77 = 750			
03 = 3		75 = 75		11 = 1000			
05 = 5		99 = 100		14 = 1500			
06 = 6							
Phase				Phase			
A = Buck and boost		F = 115°C rise		S = Single		T = Three	
B = 80°C rise		E = Electrostatic shield					
Suffix Options				Suffix Options			
A...Y = ①		SR = ⑩		A...Y = ①		SR = ⑩	
CU = ②		CE = ⑪		CU = ②		CE = ⑪	
SS = ③		T = ⑫		SS = ③		T = ⑫	
ZZ = ④		EE = ⑬		ZZ = ④		EE = ⑬	
NV = ⑤		NON = ⑭		NV = ⑤		NON = ⑭	
X = ⑥		POS = ⑮		X = ⑥		POS = ⑮	
LS_ = ⑦		NEG = ⑯		LS_ = ⑦		NEG = ⑯	
AF = ⑧		THR = ⑰		AF = ⑧		THR = ⑰	
TR = ⑨				TR = ⑨			

Notes

- Model number is not used on newly designed/redesigned transformers.
- Copper windings.
- Stainless steel enclosure (uses 316 stainless steel, does not imply a NEMA 4X rating).
- Open type core and coil assembly.
- Totally enclosed non-ventilated DS-3 or DT-3.
- 50/60 Hz.
- Low sound design. LS47 indicates low sound equal to 47 dB; LS42 indicates 42 dB.
- Fungus proof.
- Certified test report of standard production tests for the specific serial number to be shipped.
- Certified sound level report.
- CE Marked.
- Thermal indicator embedded in center coil. Suffix "TT" indicates two thermal indicators of different temperature ratings, are installed.
- NEMA TP-1 Energy Star energy efficient.
- 0° phase-shift (used with HMTs).
- +15° phase-shift (used with HMTs).
- 15° phase-shift (used with HMTs).
- 30° phase-shift (used with HMTs).