

hammond
POWER SOLUTIONS



AUTOTRANSFORMERS



General Purpose Autotransformers

HPS three phase autotransformers are available for applications where small voltage corrections are necessary in a distribution system. They are frequently used as an economical alternative to general purpose distribution isolation transformers to adjust the supply voltage to match specific load requirements when load isolation from the supply line is not required. Autotransformers can be used as either a step-up or step-down transformer.

Standard Specifications



3 TO (15)(30)(45) kVA



(30)(45)(75) to 500 kVA



Three Phase Standard Specifications

UL Listed:	File: E258346 (UL1604, Class I, Division 2)
CSA Certified:	File: LR3902
ABS Type Approval:	Certificate No.: 04-HS435190/1-PDA
Frequency:	60 Hz
Insulation System:	130°C (80°C rise) standard on all units 180°C (115°C rise) standard on all encapsulated units
Encapsulation:	Select units are encapsulated with electrical grade silica sand and resin compounds
Enclosure Type:	Heavy duty type 3R Optional type 4, 4X (Stainless steel) and 12
Termination:	Top accessible separate high and low voltage lead wires or copper tabs
Conduit Knock-Outs:	Standard side and rear knock-outs on all units (no knock-outs on Stainless Steel enclosures)
Impedance:	Less than 3%
Mounting:	Refer to tables on the next page
Sound Level:	Meets NEMA ST-20 standards (Optional low noise available on request)

Three Phase Standard Specifications

UL Listed:	File: E112313
CSA Certified:	File: LR3902
ABS Type Approval:	Optional
Frequency:	60 Hz
Insulation System:	200°C (130°C rise) or 220°C (150°C rise) available
Encapsulation:	Not Applicable (ventilated core and coil)
Enclosure Type:	Heavy duty type 3R Optional type 4, 4X (Stainless steel) and 12
Termination:	Front accessible compartment with high and low voltage terminals; connectors suitable for copper cables provided where indicated
Conduit Knock-Outs:	Standard side knock-outs on all units (no knock-outs on Stainless Steel enclosures)
Impedance:	Less than 3%
Mounting:	Refer to tables on next page
Sound Level:	Meets NEMA ST-20 standards (Optional low noise available on request)

Other voltages not listed are available upon request. Please contact customer service for details, price and availability.
Note: Autotransformers incorporate a single winding design without isolation in a Wye configuration.

SELECTION TABLES

THREE PHASE, NEMA 3R STYLE ENCLOSURES

600Y - 480Y VOLTS

480Y - 380Y VOLTS** (ALTERNATE RATING)

60 HZ

50/60 HZ**

kVA		Catalog Number	Case Style	Approx. Dimensions (Inches)			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
60 Hz	50/60 Hz			Width	Depth	Height			
3	2.4	Y003PKCB3LOU	NQT2	9.38 [238]	4.94 [125]	8.63 [219]	19 [9]	W	SCD 24
6	4.8	Y006PKCB3LOU	NQT2	9.38 [238]	4.94 [125]	8.63 [219]	26 [12]	W	SCD 24
9	7.2	Y009PKCB3LOU	NQT3	12.38 [314]	5.44 [138]	11.13 [283]	50 [23]	W	SCD 24
15	12	Y015PKCB3LOU	NQT3	12.38 [314]	5.44 [138]	11.13 [283]	60 [27]	W	SCD 24
30	24	Y030PKCF3LOU	NQT4	15.19 [386]	6.94 [176]	16.39 [416]	135 [61]	W	SCD 24
45	36	Y045PKCN3LOU	NH5	19.40 [493]	20.20 [513]	21.50 [546]	130 [59]	F or W*	SCD 24
75	60	Y075PKCN3LOU	NH5	19.40 [493]	20.20 [513]	21.50 [546]	170 [77]	F or W*	SCD 24
112.5	90	Y112PKCH3LOU	NH6	23.90 [607]	25.00 [635]	28.75 [730]	245 [111]	F or W*	SCD 24
150	120	Y150PKCH3LOU	NH6	23.90 [607]	25.00 [635]	28.75 [730]	285 [129]	F or W*	SCD 24
225	180	Y225PKCH3LOU	NH6	23.90 [607]	25.00 [635]	28.75 [730]	360 [163]	F or W*	SCD 24
300	240	Y300PKCH3LOU	NH3	26.00 [660]	21.00 [533]	38.00 [965]	500 [227]	F or W*	SCD 24
500	400	Y500PKCH3LOU	NH3	26.00 [660]	21.00 [533]	38.00 [965]	650 [295]	F or W*	SCD 24

**Note: The kVA rating must be reduced for operation at the alternative rating 480Y, 380Y (50/60 Hz).

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

Please refer to the 50/60 Hz column under kVA in the above table. 50/60 Hz only available at 480-380Y rating.

Above units from 3 kVA to 30 kVA are encapsulated.

600Y, 480Y - 400Y, 240Y, 208Y VOLTS

60 HZ

kVA		Catalog Number	Case Style	Approx. Dimensions (Inches)			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
				Width	Depth	Height			
3		Y003QTCB3LOU	NQT3	12.38 [314]	5.44 [138]	11.13 [283]	49 [22]	W	SCD 14
6		Y006QTCB3LOU	NQT3	12.38 [314]	5.44 [138]	11.13 [283]	69 [31]	W	SCD 14
9		Y009QTCF3LOU	NQT4	15.19 [386]	6.94 [176]	16.39 [416]	138 [62]	W	SCD 14
15		Y015QTCF3LOU	NQT4	15.19 [386]	6.94 [176]	16.39 [416]	170 [77]	W	SCD 14
30		Y030QTCN3LOU	NH5	19.40 [493]	20.20 [513]	21.50 [546]	210 [95]	F or W*	SCD 14
45		Y045QTCN3LOU	NH6	23.90 [607]	25.00 [635]	28.75 [730]	305 [138]	F or W*	SCD 14
75		Y075QTCN3LOU	NH6	23.90 [607]	25.00 [635]	28.75 [730]	400 [181]	F or W*	SCD 14
112.5		Y112QTCN3LOU	NH3	26.00 [660]	21.00 [533]	38.00 [965]	585 [270]	F or W*	SCD 14
150		Y150QTCN3LOU	NH3	26.00 [660]	21.00 [533]	38.00 [965]	685 [311]	F or W*	SCD 14
225		Y225QTCN3LOU	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	980 [444]	F	SCD 14

Above units from 3 kVA to 15 kVA are encapsulated.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

240Y, 216Y - 208Y VOLTS

60 HZ

kVA		Catalog Number	Case Style	Approx. Dimensions (Inches)			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
				Width	Depth	Height			
3		Y003CECB3LOU	NQT2	9.38 [238]	4.94 [125]	8.63 [219]	19 [9]	W	SCD 15
6		Y006CECB3LOU	NQT2	9.38 [238]	4.94 [125]	8.63 [219]	28 [13]	W	SCD 15
9		Y009CECB3LOU	NQT3	12.38 [314]	5.44 [138]	11.13 [283]	49 [22]	W	SCD 15
15		Y015CECB3LOU	NQT3	12.38 [314]	5.44 [138]	11.13 [283]	58 [26]	W	SCD 15
30		Y030CECF3LOU	NQT4	15.19 [386]	6.94 [176]	16.39 [416]	115 [52]	W	SCD 15
45		Y045CECF3LOU	NQT4	15.19 [386]	6.94 [176]	16.39 [416]	130 [59]	W	SCD 15
75		Y075CECN3LOU	NH5	19.40 [493]	20.20 [513]	21.50 [546]	170 [77]	F or W*	SCD 15

Above units from 3 kVA to 15 kVA are encapsulated.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

Units provided with neutral terminals. Autotransformers without Neutrals are available. Please contact your HPS Sales Representative.

Products listed on this page are available with optional 'CE Mark'. Please consult our sales office.