



## **SECTION 10**

# **AUTOTRANSFORMERS**

### **600 Volt Class, Three Phase**

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## 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.

### THREE PHASE STANDARD SPECIFICATIONS

#### 3 TO (15)(30)(45) KVA



#### (30)(45)(75) TO 500 KVA



	3 kVA to (15)(30)(45) kVA	(30)(45)(75) to 500 kVA
<b>UL Listed</b>	File: E258346 (UL1604, Class I, Division 2)	File: E112313
<b>CSA Certified</b>	File: LR3902	File: LR3902
<b>ABS Type Approval</b>	Certificate No.: 04-HS435190/1-PDA	Optional
<b>Frequency</b>	60 Hz	60 Hz
<b>Insulation System</b>	130°C (80°C rise) standard on all units	180°C (115°C rise) or 200°C (130°C rise) or 220°C (150°C rise) available.
<b>Encapsulation</b>	Select units are encapsulated with electrical grade silica sand and resin compounds.	Not Applicable (ventilated core and coil)
<b>Enclosure Type</b>	Heavy Duty NEMA Type 3R Optional NEMA 4, 4X (Stainless steel) and 12.	Heavy Duty NEMA Type 3R Optional NEMA 4, 4X (Stainless steel) and 12.
<b>Termination</b>	Top accessible separate high and low voltage lead wires or copper tabs.	Front accessible compartment with high and low voltage terminals; connectors suitable for copper provided where indicated.
<b>Conduit Knock-Outs</b>	Standard side and rear knock-outs on all units.	Standard side knock-outs on all units.
<b>Impedance</b>	Less than 3%.	Less than 3%.
<b>Mounting</b>	Refer to tables on the next page.	Refer to tables on next page.
<b>Sound Level</b>	Meets NEMA ST-20 standards. (Optional low noise available on request)	Meets NEMA ST-20 standards. (Optional low noise available on request)

**Other voltages not listed in this section 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.**

# SECTION 10

# AUTOTRANSFORMERS

## THREE PHASE, NEMA 3R STYLE ENCLOSURE



600Y, 480Y Volts  
480Y, 380Y Volts (Alternate Rating)

60 Hz  
50/60 Hz

kVA	Catalog Number	Case Style (Pages 260 - 267)	Approx. Dimensions (Inches)			Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 276 - 288)
			Width	Depth	Height			
3	Y003PKCB	NQT2	9.38	4.94	8.63	19	W	SCD 24
6	Y006PKCB	NQT2	9.38	4.94	8.63	26	W	SCD 24
9	Y009PKCB	NQT3	12.38	5.44	11.13	50	W	SCD 24
15	Y015PKCB	NQT3	12.38	5.44	11.13	60	W	SCD 24
30	Y030PKCF	NQT4	15.19	6.94	16.39	135	W	SCD 24
45	Y045PKCN	NH5	19.40	20.20	21.50	130	F or W*	SCD 24
75	Y075PKCN	NH5	19.40	20.20	21.50	170	F or W*	SCD 24
112.5	Y112PKC	NH6	23.90	25.00	28.75	245	F or W*	SCD 24
150	Y150PKC	NH6	23.90	25.00	28.75	285	F or W*	SCD 24
225	Y225PKC	NH6	23.90	25.00	28.75	360	F or W*	SCD 24
300	Y300PKC	NH3	26.00	21.00	38.00	500	F or W*	SCD 24
500	Y500PKC	NH3	26.00	21.00	38.00	650	F or W*	SCD 24

Above units from 3 kVA to 30 kVA are encapsulated.  
OPTIONAL NEUTRAL AVAILABLE UPON REQUEST.

\*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.  
REFER TO PAGES 271 TO 273 FOR DETAILS.

600Y, 480Y, 400Y, 240Y 208Y Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 260 - 267)	Approx. Dimensions (Inches)			Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 276 - 288)
			Width	Depth	Height			
3	Y003QTCB	NQT3	12.38	5.44	11.13	49	W	SCD 14
6	Y006QTCB	NQT3	12.38	5.44	11.13	69	W	SCD 14
9	Y009QTCF	NQT4	15.19	6.94	16.39	138	W	SCD 14
15	Y015QTCF	NQT4	15.19	6.94	16.39	170	W	SCD 14
30	Y030QTCN	NH5	19.40	20.20	21.50	210	F or W*	SCD 14
45	Y045QTC	NH6	23.90	25.00	28.75	305	F or W*	SCD 14
75	Y075QTC	NH6	23.90	25.00	28.75	400	F or W*	SCD 14
112.5	Y112QTC	NH3	26.00	21.00	38.00	585	F or W*	SCD 14
150	Y150QTC	NH3	26.00	21.00	38.00	685	F or W*	SCD 14
225	Y225QTC	NH4	32.00	29.50	41.00	980	F	SCD 14

Above units from 3 kVA to 15 kVA are encapsulated.  
OPTIONAL NEUTRAL AVAILABLE UPON REQUEST.

\*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.  
REFER TO PAGES 271 TO 273 FOR DETAILS.

240Y, 216Y, 208Y

60 Hz

kVA	Catalog Number	Case Style (Pages 260 - 267)	Approx. Dimensions (Inches)			Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 276 - 288)
			Width	Depth	Height			
3	Y003CECB	NQT2	9.38	4.94	8.63	19	W	SCD 15
6	Y006CECB	NQT2	9.38	4.94	8.63	25	W	SCD 15
9	Y009CECB	NQT3	12.38	5.44	11.13	49	W	SCD 15
15	Y015CECB	NQT3	12.38	5.44	11.13	58	W	SCD 15
30	Y030CECF	NQT4	15.19	6.94	16.39	115	W	SCD 15
45	Y045CECF	NQT5	16.63	10.25	17.89	130	F or W*	SCD 15
75	Y075CECN	NH5	19.40	20.20	21.50	170	F or W*	SCD 15

Above units from 3 kVA to 45 kVA are encapsulated.  
OPTIONAL NEUTRAL AVAILABLE UPON REQUEST.

\*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.  
REFER TO PAGES 271 TO 273 FOR DETAILS.

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



