

Single-phase overhead transformers

CROP manufactures a complete line of single-phase overhead type distribution transformers. Single-phase transformers are available as conventional (5-167kVA), completely self-protected (CSP 5-75kVA), or CROP-X™ interrupter-protected (5-167kVA) in a variety of ratings to meet or exceed the requirements of applicable ANSI® and NEMA® standards. Units designed per Rural Utilities Service (RUS) standards are also available. CSP transformers have direct connected primary arresters, secondary circuit breakers, and internal primary voltage fuses. This eliminates the need for separately mounted protective devices and provides reduced installation costs.

The CROP-X interrupter is an overcurrent protective device that protects distribution transformers from damaging overloads and secondary faults, and is also used for switching the transformer "on" or "off." Transformers shown include, first and second, single-phase overhead conventional transformers, and third, CROP-X interrupter-protected transformer.



Up-to 36KV class single phase pole-mounted distribution transformer
Production capability: 800units/month
Standard: GB/IEC/ANSI/By Customer

C800 Single-phase overhead transformers

Standard features

- Meet or exceed ANSI and NEMA standards
- EPRI recommended interlaced core-type design (5-75 kVA)
- Tank coating exceeds IEEE Std C57.12.31™ -2010 standard
- Cover with a minimum dielectric strength of 8 kV
- Tin-plated high and low-voltage bushing terminals to accommodate aluminum or copper conductors
- Laser-engraved nameplate
- Wet process porcelain high-voltage bushings resistant to high voltage corona
- Tank grounding provisions
- Envirotemp™ FR3™ fluid or electrical grade mineral oil
- Heavy-duty lifting lugs and hanger brackets per ANSI requirements
- Visible cover ground on units with cover-mounted bushings
- Recessed tank bottom that offers protection when sliding over rough surfaces
- Automatic pressure relief device
- Porcelain low-voltage bushings (5-75 kVA)
- Arrester mounting and grounding provisions
- Internal mark indicating the proper oil level
- Permanently stamped secondary leads to ensure proper identification
- Corrosion-resistant cover band
- Both Silicon steel core and amorphous core are available.
- Both Copper winding and Aluminum winding are available.
- Quality System ISO 9001 certified

Optional accessories

- Taps either two 2.5 % above and below; four 2.5% below; NEMA taps or special taps
- Externally-operable tap changer switches for safe operation
- Multiple voltage primaries (5-75kVA)
- Externally-operable multiple voltage switches for safe operation
- High corrosion area protection with 304 or 409 stainless steel hardware and tanks
- Cover with a minimum dielectric strength of 15 kV
- Extra creep high voltage bushings (up to 150 kV BIL)
- Porcelain low-voltage bushings
- Special designs conforming to international specifications
- Drain/sampling valve
- Pressure vacuum gauge (tank size limitations apply)
- Filter press connections
- Temperature gauge (tank size limitations apply)
- Liquid level gauge (tank size limitations apply)

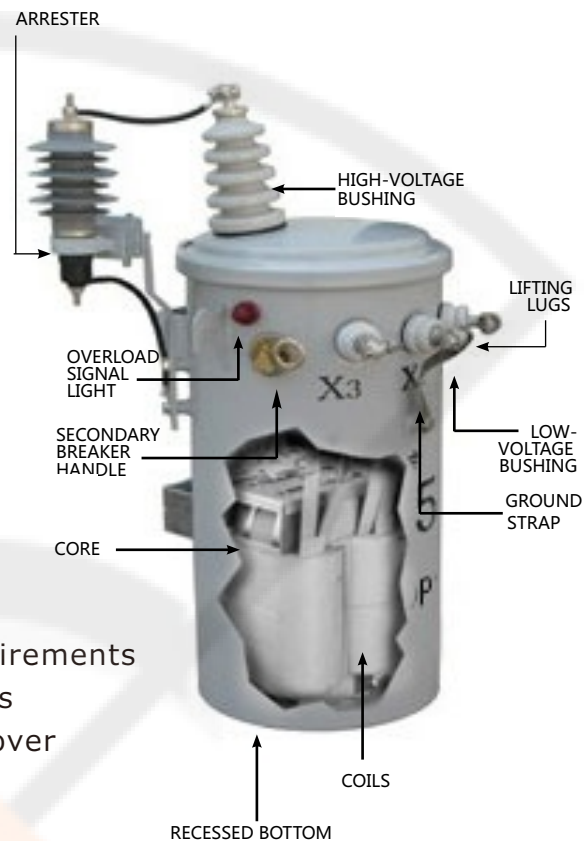


Figure 1. Single-phase overhead CSP transformer.

C800 Single-phase overhead transformers

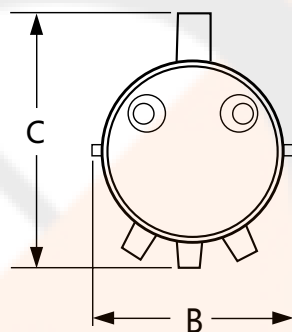
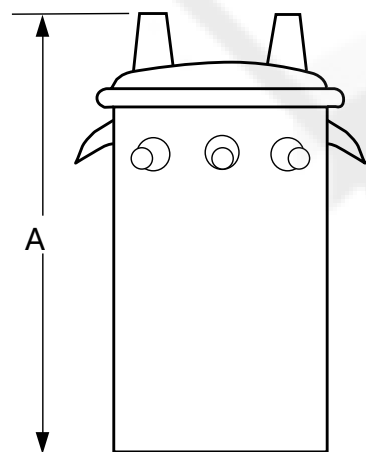
Single-phase overhead
conventional

Product Scope:

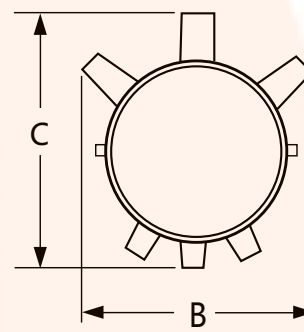
kVA: 5-167

Primary Voltage: 2400-19,920 V / 4160-34500YY

Secondary Voltage: 120-600 V



≥95 kV BIL



≤75 kV BIL

Table 1. Typical dimensions and Weights

kVA	Dimensions (in.)						Approx. Weight (lbs.)	
	"A"				"B"			"C"
	≤75 kV BIL	95 kV BIL	125 kV BIL	150 kV BIL	≤75 kV BIL	≥95 kV BIL		
5	26	32	42	45	28	17	20	220
10	26	32	42	45	28	17	20	220
15	30	35	46	49	28	17	20	280
25	31	38	48	51	30	20	22	350
37.5	33	40	52	55	31	20	24	450
50	36	44	52	55	33	22	25	600
75	39	51	54	57	33	24	28	820
100	40	55	58	61	33	27	31	1100
167	47	55	58	61	35	35	37	1400

* Detail Dimensions and weight will according to your power system required.

C800 Single-phase overhead transformers

completely self protected
(CSP)

Product Scope:

kVA: 5-75

Primary Voltage: 2400-19,920 V / 4160-34500 YY

Secondary Voltage: 120-600V

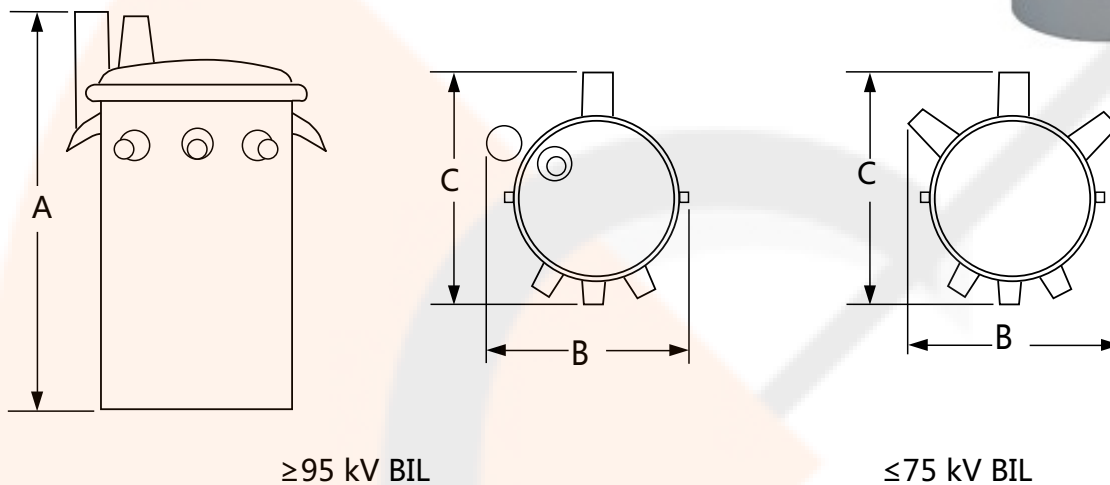
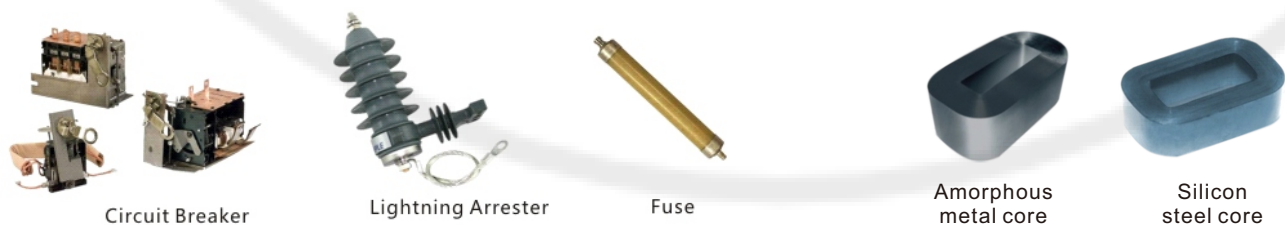


Table 2. Typical Dimensions and Weights

kVA	Dimensions (in.)							Approx Weight (lbs.)
	"A"				"B"		"C"	
	≤75 kV BIL	95 kV BIL	125 kV BIL	150 kV BIL	≤75 kV BIL	≥95 kV BIL		
5	26	36	42	45	28	17	20	240
10	26	36	42	45	28	17	20	240
15	30	42	46	49	28	17	20	300
25	31	44	48	51	30	20	22	400
37.5	33	46	52	55	31	20	25	500
50	36	46	52	55	33	22	26	600
75	39	51	54	57	33	24	30	900
100	40	55	58	61	33	27	34	1100
167	47	55	58	61	35	35	40	1600

* Detail Dimensions and weight will according to your power system required.

Accessories



Circuit Breaker

Lightning Arrester

Fuse

Amorphous metal core

Silicon steel core

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Contact us

**CROP TECHNOLOGY GROUP
CHINA**

www.crop-group.cn
www.cncropgroup.com

info@cncropgroup.com

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