3 Phase Overhead Distribution Pole Mounted Transformer Part Number: CWS-75-3PP-13.8-120

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	Description	Unit	Specifications
	General		
1.1	Manufacturer		CWS Engineering
1.2	Transformer Type	1	Overhead Distribution Transformer, Conventional Type
1.3 1.4	Transformer Configuration  Mounting Type		Liquid Filled Pole Mounted Pole-Mounted
1.5	Phase		Three-Phase Units
1.6	Polarity Type		Subtractive
	Electrical Characteristics		
2.1	Capacity	KVA	75 KVA
2.2	Primary Voltage	V	13800 V
2.2a 2.2b	Primary Voltage Switch Primary Voltage Class	1-37	N/A
2.2b 2.2c	Primary Voltage Class Primary Phasor	kV	15 kV Class Delta
2.2d	Primary BIL	kV	90 kV
2.3a	Secondary Voltage		208Y/120
2.3b	Secondary Voltage Class Secondary Phasor		1.2 kV Class
2.3c 2.3d	Secondary Phasor Secondary BIL	KV	Wye-N 30 KV
2.4	Frequency	Hz	60 Hz
2.5	Temperature Rise	°C	65°C
2.6	Insulation Rating Forced Air (Fans)	°C, °F	Class E Insulation - 120°C, 248°F None
2.7	Cooling Class		ONAN; Self-Cooled
2.9a	Tap Changer		5-Position Tap Changer w/ External Operating Handle
2.9b	Tap Qty	0/	(2) FCAN Above, (2) FCBN Below
2.9c 2.9d	Tap % Tap Changer Switch Location	%	2.5% Middle of Tank Body, Left of Mounting Provisions
2.70	Tap Changer Switch Location		Windle of Tank Body, Left of Wodining Flovisions
	Ratings		
3.1	Efficiency Ratings	1	Meets/Exceeds DOE 2016
3.2	Complies with		ANSI / IEEE #C57.12.00 ANSI / IEEE #C57.12.20
			ANSI / IEEE #C57.12.28
			ANSI / IEEE #C57.12.31
			ANSI / IEEE C57.12.70 ANSI / IEEE C57.12.80
			ASTM D3487
3.3	Insulating Fluid		Non-PCB
3.4	Lifting Lugs Efficiency	%	Included 99%
3.3	Efficiency	70	9970
	Load Losses Based on 85°C Reference Temp.		
4.1	No Load Loss (in watts):	W	± 247W
4.2	Full Load Loss (in watts): Total Load Loss (in watts)	W	$\pm 845W$ $\pm 1.092W$
5	Total Bott Bots (III wates)		- 1,00 <u>2</u> H
	Connections		
5.1 5.2a	Impedance Primary Connection Type	%	1.0-5.0% Typical Live Bushing Lug
5.2a 5.2b	Primary Termination	-	Porcelain High Voltage Bushing
5.2c	Primary Connection Qty		3
5.2d	Primary Lightning Arrestors	ļ	N/A Mayurting Dusyisiana for Installing Lightning America on III II2 & II2 Dringery Tomainale
5.2e 5.2f	Primary Lightning Mounting Provision Primary Lightning Arrestors Voltage Rating		Mounting Provisions for Installing Lightning Arrestor on H1, H2 & H3 Primary Terminals N/A
5.2g	Primary Lightning Arrestors WCOV Rating		N/A
5.3a	Secondary Connection Type		Live Bushing Lug
5.3b 5.3c	Secondary Connections Secondary Connection Qty	-	Threaded Stud Terminals 4
5.3d	Secondary Connection Qty Secondary Neutral Connection	"	Secondary X2 Neutral Grounded to Tank via 1/2"-13 UNC Tapped Hole, 7/16" Deep Bung & Copper Ground
5.4	Terminals		Tin Plated Primary and Secondary - Accepts Copper or Aluminum Connections
5.5	Grounding Provisions		(1) Lug w/ Grounding Strap, Tank Grounding Lug
5.6 5.7	Transformer Protection Load Break Switch	+	N/A N/A
5.8	Efficiency Standard(s)		Meets DOE 2016 Standards, Meets ANSI/IEEE Standards
5.9a	K-Factor Rating (Harmonic Mitigation)		K-1 (Standard)
5.9b	Pulse Drive Rating		N/A
+	Physical Characteristics / Accessories		
6.1	Insulation Fluid		Mineral Oil - Non PCB Fluid
6.2a	Fluid Capacity	Gallons	60 Gallons
6.2b 6.3	Fluid Weight Liquid Level Indicator	lbs	540.90 lbs Internal In-Tank Oil Level Line
6.4	Temperature Indicator	<del>                                     </del>	Internal In-Tank Oil Level Line N/A
6.5a	Pressure/Vacuum Indicator		N/A
6.5b	Pressure Relief Device		Included, Automatic Action
6.6 6.7a	Fault Indicator Oil Level Marking	-	N/A Internal
6.7b	Fill Valve	1	N/A (Tank Filled via Removable Lid)
6.7c	Drain Valve	"	1/2" NPT Port w/ Removable Bolt

		Aluminum
ent Temperature Rating	°C	40°C
Level	dBA	51 dBA
ion Level	ft	3,300ft above Sea Level
Material		Grain Oriented Steel
Material		Coated Steel
ng Material		Coated Steel w/ Corrosion Resistant Cover Band, Removable Top Cover
vare Material		Stainless Steel Hardware
Гуре		Weatherproof and UV Resistant Epoxy Coating and Undercoating
Color		Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
ting		Double Hanger Bracket
ting		Pole Mount via Hangar Brackets
g Lugs		Included
nsions*	"	25"-W x 32"-D x 64"-H
Diameter*	"	20"-OD
/eight*	lbs	/
Weight (Liquid Filled)*	lbs	1,393 lbs
ti S D	Ing Lugs sions* biameter* eight*	ing Lugs sions* "" biameter* eight* lbs