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No.	Part Number	PHASE	KVA	TEMP RISE	PRI VOLTAGE	PRI AMPS	OL PROTECT	SEC VOLTAGE	SEC AMPS	FRAME?	NEMA	WIDTH (A)	HEIGHT (B)	DEPTH (C)	APPROX WEIGHT
1	TDU-1P100AB3R	1	100	150	480 D	207	300	240/120	415	N	3R	36.50	40.50	24.75	925
2	TDU-1P100AB3R-F	1	100	150	480 D	207	300	240/120	415	Y	3R	45.00	51.00	32.00	1425
3	TDU-1P100A03R	1	100	150	480 D	207	N/A	240/120	415	N	3R	36.50	40.50	24.75	905
4	TDU-1P100A03R-F	1	100	150	480 D	207	N/A	240/120	415	Y	3R	45.00	51.00	32.00	1405
5	TDU-3P112CB3R	3	112.5	150	480 D	135	175	208Y/120	312	N	3R	31.50	40.50	24.75	925
6	TDU-3P112CB3R-F	3	112.5	150	480 D	135	175	208Y/120	312	Y	3R	40.00	51.00	32.00	1425
7	TDU-3P112C03R	3	112.5	150	480 D	135	N/A	208Y/120	312	N	3R	31.50	40.50	24.75	905
8	TDU-3P112C03R-F	3	112.5	150	480 D	135	N/A	208Y/120	312	Y	3R	40.00	51.00	32.00	1405
9	TDU-3P150CB3R	3	150	150	480 D	180	225	208Y/120	415	N	3R	36.50	40.50	24.75	1120
10	TDU-3P150CB3R-F	3	150	150	480 D	180	225	208Y/120	415	Y	3R	45.00	51.00	32.00	1605
11	TDU-3P150C03R	3	150	150	480 D	180	N/A	208Y/120	415	N	3R	36.50	40.50	24.75	1095
12	TDU-3P150C03R-F	3	150	150	480 D	180	N/A	208Y/120	415	Y	3R	45.00	51.00	32.00	1580
13	TDU-3P225CB3R	3	225	150	480 D	270	350	208Y/120	625	N	3R	40.50	51.50	35.50	1740
14	TDU-3P225CB3R-F	3	225	150	480 D	270	350	208Y/120	625	Y	3R	50.00	61.00	43.00	2260
15	TDU-3P225C03R	3	225	150	480 D	270	N/A	208Y/120	625	N	3R	40.50	51.50	35.50	1710
16	TDU-3P225C03R-F	3	225	150	480 D	270	N/A	208Y/120	625	Y	3R	50.00	61.00	43.00	2230
17	TDU-3P300CB3R	3	300	150	480 D	360	450	208Y/120	830	N	3R	40.50	51.50	35.50	2025
18	TDU-3P300CB3R-F	3	300	150	480 D	360	450	208Y/120	830	Y	3R	50.00	61.00	43.00	2635
19	TDU-3P300C03R	3	300	150	480 D	360	N/A	208Y/120	830	N	3R	40.50	51.50	35.50	1995
20	TDU-3P300C03R-F	3	300	150	480 D	360	N/A	208Y/120	830	Y	3R	50.00	61.00	43.00	2605

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UNLESS OTHERWISE SPECIFIED:		NAME		DATE		TITLE: TRANSFORMER DISTRIBUTION UNIT							
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		DRAWN		RC						7-09-18			
		CHECKED		JT						7-19-18			
		ENG APPR.		JT						7-19-18			
		MFG APPR.		JT						7-27-18			
INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.		JD		8-15-18							
MATERIAL								SIZE		DWG. NO.		REV	
FINISH								B		TDU-XPXXXXX3R-X			
DO NOT SCALE DRAWING		INNOVATIVE POWER SOLUTIONS						SCALE: 1:16		WEIGHT:		SHEET 2 OF 2	

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Transformer Distribution Units Specification Document

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes:

1. Transformer Distribution Units Specifications

B. Related Sections:

1. Division 00 – Bidding Requirements
2. Division 01 – General Requirements
3. Section 26 00 00 – Electrical: Basic Requirements

1.2 QUALITY ASSURANCE

A. Referenced Standards:

1. Underwriters Laboratories, Inc.
 - a. UL 1561 Listed – Dry Type General Purpose and Power Transformers

1.3 QUALIFICATIONS

- #### **A. Transformer distribution unit manufacturer shall provide a complete factory assembled and tested unit.**

1.4 SUBMITTALS

A. Shop Drawings

1. Product technical data:
 - a. Product dimensions with front and side elevation views
 - b. Enclosure type
 - c. Assembly ratings including amperage, voltage, OL protection

1.5 WARRANTY

A. Factory Warranty

1. Transformer Distribution Unit shall be covered by a manufacturer's warranty for a period of one (1) year from date of shipment from the manufacturer.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Power Assemblies LLC.
- B. No Substitutions

2.2 TRANSFORMER DISTRIBUTION UNITS

A. DRY TYPE TRANSFORMER

1. GENERAL

- a. Transforms are defined as 600V class, dry type general purpose distribution transformers

2. CONSTRUCTION

- a. Equipment shall be new
- b. Transformer enclosure shall be NEMA Type 3R
 1. Unit shall utilize aluminum or copper windings
 2. Transformer shall be UL listed
 3. Transformer will have removable panels front and rear

- c. ANSI-61 gray powder coating

3. ENCLOSURE

- a. Mount: Floor Mount
- b. Material: Steel
- c. Finish: ANSI 61 Gray
- d. Additional Requirements
 - 1. NEMA Type 3R
 - 2. UL506
 - 3. UL1561

4. CAMLOCKS

- a. Camlocks shall be male for input, female for output with clear snapback covers
- b. Camlocks shall be series 16 and 90 deg threaded post type
- c. Camlocks shall be color coded by standard voltage color coding
- d. Camlocks shall be provided in appropriate configuration to support required amperage

B. MOLDED CASE CIRCUIT BREAKER

1. GENERAL

- a. The molded case circuit breaker is defined as a single enclosed 2 or 3 pole overload electrical protection device designed to protect down stream conductors.

2. CONSTRUCTION

- a. Equipment shall be new
- b. Breaker shall include dual aluminum lugs suitable for 90 deg rated cable
- c. Breaker shall be molded case thermal magnetic overload type
- d. Breaker shall be 80% rated

C. FRAME

1. GENERAL

- a. The frame is defined as the protective welded steel enclosure that all previous equipment is mounted.

2. CONSTRUCTION

- a. Equipment shall be new
- b. The frame shall be constructed of 1.5'' x 1.5'' x .125'' steel
- c. The frame shall be outfitted with (2) ridged and (2) swivel casters
- d. The frame shall be coated with ArmorTek protective coating