



Line Card – Electrical Equipment for Industry, Commerce & Renewables



Power Quality

3-Phase UPS

- 3-Phase UPS Systems
- Precision Cooling & Containment
- 1-Phase UPS Systems



Switchgear

- Medium Voltage Switchgear
- Padmounted Switchgear
- Switchboards
- Disconnects
- Panels
- Mini Power Centers
- Isolated Power Panels
- Transfer Switches
- Generator Connection Cabinets
- Secondary Termination Cabinets



Overhead Distribution

- Gang-Operated Air Break Switches
- Reclosers
- Customer Metering
- Fusible Cutouts
- Power Fuse Holders & Refills
- Disconnect & Bypass Switches
- Arresters
- Insulators
- Crossarms



Transformers

Liquid Filled Transformers

- Substation Transformers
- Voltage Regulators

Medium Voltage Switchgear

- Unit Substations
- Cast Coil Transformers
- 600VAC Dry Type Transformers
- Grounding Transformers
- Reactors
- Neutral Grounding Resistors



Cable Accessories

- Junction Enclosures
- Junctions
- Termination Kits
- Splice Kits
- Loadbreak Connectors
- Deadbreak Connectors
- Cable Fault Indicators
- Elbow Arresters



Services

Transformer Repairs

Rental Transformers & Switchgear

Buy-Back...

We'll buy your surplus!

- Switchgear
- Transformers
- UPS Systems
- Fuses



Substations

- Structural Steel
- Overhead Vertical Break Switches
- Circuit Breakers
- Power Transformers
- Voltage Transformers
- Relay Control Panels
- Grounding Material
- Substation Connectors



Accessories & Parts

- Fuses
- Switchgear Parts
- Relays
- Meters
- Power Sensing Transformers
- Transformer Parts
- Breakers



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Solving unsolvable medium voltage problems for 75+ years

Low-Voltage Quick Reference

Single Phase Transformers				
KVA Rating	Full Load Current (Amperes)			
	120 V	240 V	480 V	600 V
0.050	0.42	0.21	0.1	0.08
0.075	0.63	0.31	0.16	0.13
0.100	0.83	0.42	0.21	0.17
0.150	1.25	0.63	0.31	0.25
0.250	2.08	1.04	0.52	0.42
0.500	4.17	2.08	1.04	0.83
0.750	6.25	3.13	1.56	1.25
1	8.33	4.17	2.08	1.67
1.5	12.5	6.25	3.13	2.5
2	16.7	8.33	4.17	3.33
3	25	12.5	6.25	5
5	41.7	20.8	10.4	8.33
7.5	62.5	31.3	15.6	12.5
10	83.3	41.7	20.8	16.7
15	125	62.5	31.2	25
25	208	104	52	41.7
37.5	312	156	78.1	62.5
50	417	208	104	83.3
75	625	312	156	125
100	833	417	208	167
167	1392	696	348	278
333	2775	1387	694	555

Three Phase Transformers				
KVA Rating	Full Load Current (Amperes)			
	208 V	240 V	480 V	600 V
3	8.33	7.22	3.61	2.89
6	16.6	14.4	7.22	5.77
9	25	21.6	10.8	8.66
15	41.6	36.1	18	14.4
25	69.4	60.1	30.1	24.1
30	83.3	72.2	36.1	28.9
37.5	104	90.2	45.1	36.1
45	125	108	54.1	43.3
50	139	120	60.1	48.1
60	166	144	72.2	57.7
75	208	180	90.2	72.2
100	278	241	120	96.2
112.5	312	271	135	108
150	416	361	180	144
225	625	541	271	217
300	833	722	361	289
400	1110	962	481	385
500	1388	1203	601	481
750	2082	1804	902	722
1000	2776	2406	1203	962

Formulas for Calculation

I_{Line} Line Current (Amps)
 V_{Line} Line-to-Line Voltage (Volts)
 KVA Power in kilovoltamperes

Three Phase

$$I_{Line} = \frac{KVA \cdot 1000}{\sqrt{3} \cdot V_{Line}}$$

$$KVA = \frac{\sqrt{3} \cdot V_{Line} \cdot I_{Line}}{1000}$$

Single Phase

$$I_{Line} = \frac{KVA \cdot 1000}{V_{Line}}$$

$$KVA = \frac{V_{Line} \cdot I_{Line}}{1000}$$

Medium-Voltage Quick Reference

KVA Rating	Primary Full Load Current (Amperes)									
	2400 V	4160 V	4800 V	7200 V	12000 V	12470 V	13200 V	13800 V	14400 V	34500 V
112.5	27.1	15.6	13.5	9	5.4	5.2	4.9	4.7	4.5	2
150	36.1	20.8	18	12	7.2	6.9	6.6	6.3	6	3
225	54.1	31.2	27.1	18	10.8	10.4	9.8	9.4	9	4
300	72.2	41.6	36.1	24.1	14.4	13.9	13.1	12.6	12	5
500	120	69.4	60.1	40.1	24.1	23.1	21.9	20.9	20	8
750	180	104	90.2	60.1	36.1	34.7	32.8	31.4	30.1	13
1000	241	139	120	80.2	48.1	46.3	43.7	41.8	40.1	17
1500	361	208	180	120	72.2	69.4	65.6	62.8	60.1	25
2000	481	278	241	160	96.2	92.6	87.5	83.7	80.2	33
2500	601	347	301	200	120	116	109	105	100	42
3000	722	416	361	241	144	139	131	126	120	50
3750	902	520	451	301	180	174	164	157	151	63
5000	1203	694	601	401	241	232	219	209	201	84

KVA Rating	Secondary Full Load Current (Amperes)			
	208 V	240 V	480 V	600 V
112.5	312	271	135	108
150	416	361	180	144
225	625	541	271	217
300	833	722	361	289
500	1388	1203	601	481
750	2082	1804	902	722
1000	2776	2406	1203	962
1500	4164	3608	1804	1443
2000	5551	4811	2406	1925
2500	6939	6014	3007	2406
3000	8327	7217	3608	2887

Quick Turn-Around Items

- Pad Mount Transformers
- Dry Type Transformers
- Medium Voltage Fusible Switchgear
- GOAB Switches
- Station Breakers
- Arresters
- Fuses
- Termination Kits
- Splice Kits
- Loadbreak & Deadbreak Elbows
- Sectionalizing Cabinets