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14 TRANSFORMERS

Public Law 109-58 of the Energy Policy Act of 2005 requires the manufacturing of Energy Efficient Transformers after January 1, 2007 for all General Purpose Distribution applications. Energy Efficient Transformers meet Table 4-2 of *The Guide for Determining Energy Efficiency for Distribution Transformers*, published by the National Electrical Manufacturers Association® (NEMA TP1-2002), set at 24-hour average loading of 35 percent.

Table 14.1: EE Single-Phase Transformers

kVA	Catalog No.	\$ Price	Full Capacity Taps	Degree C Temp. Rise	Weight (lbs) ▲	Enclosure ■
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**Single Phase—240 X 480 V Primary
120/240 V Secondary 60 Hz;
cULus Listed through 167 kVA**

15	EE15S3H	3072.00	6-2.5%2+4-◆	150	215	17D
25	EE25S3H	4151.00	6-2.5%2+4-◆	150	275	17H
37.5	EE37S3H	5534.00	6-2.5%2+4-◆	150	340	18H
50	EE50S3H	6731.00	6-2.5%2+4-◆	150	395	18H
75	EE75S3H	9128.00	6-2.5%2+4-◆	150	619	21D
100	EE100S3H	15091.00	6-2.5%2+4-◆	150	682	22D
167	EE167S3H	17333.00	6-2.5%2+4-◆	150	982	24D
250	EE250S3H	35837.00	6-2.5%2+4-◆	150	1060	25D
333	EE333S3H	44586.00	6-2.5%2+4-◆	150	1854	31D

**Single Phase—600 V Primary 120/240 V Secondary
60 Hz; cULus Listed through 167 kVA**

15	EE15S3S34H	3733.00	6-2.5%2+4-◆	150	215	17D
25	EE25S3S34H	5044.00	6-2.5%2+4-◆	150	275	17H
37.5	EE37S3S34H	6723.00	6-2.5%2+4-◆	150	400	18H
50	EE50S3S34H	8177.00	6-2.5%2+4-◆	150	450	18H
75	EE75S3S34H	11089.00	6-2.5%2+4-◆	150	605	21D
100	EE100S3S34H	18332.00	6-2.5%2+4-◆	150	795	22D
167	EE167S3S34H	21056.00	6-2.5%2+4-◆	150	985	24D
250	EE250S3S34H	43535.00	6-2.5%2+4-◆	150	1065	25D
333	EE333S3S34H	50383.00	6-2.5%2+4-◆	150	1865	31D

**Single Phase—208 V Primary 120/240 V Secondary
60 Hz; cULus Listed through 167 kVA**

15	EE15S60H	4506.00	2-5%FCBN	150	200	17D
25	EE25S60H	5866.00	2-5%FCBN	150	275	17H
37.5	EE37S60H	7818.00	2-5%FCBN	150	397	18H
50	EE50S60H	9508.00	2-5%FCBN	150	420	18H
75	EE75S60H	12890.00	2-5%FCBN	150	621	21D
100	EE100S60H	19613.00	2-5%FCBN	150	795	22D
167	EE167S60H	24484.00	2-5%FCBN	150	985	24D

**Single Phase—277 V Primary 120/240 V Secondary
60 Hz; cULus Listed through 167 kVA**

15	EE15S61H	4506.00	2-5%FCBN	150	225	17D
25	EE25S61H	5866.00	2-5%FCBN	150	285	17H
37.5	EE37S61H	7818.00	2-5%FCBN	150	410	18H
50	EE50S61H	9508.00	2-5%FCBN	150	460	18H
75	EE75S61H	12890.00	2-5%FCBN	150	630	21D
100	EE100S61H	19613.00	2-5%FCBN	150	695	22D
167	EE167S61H	24484.00	2-5%FCBN	150	995	24D

▲ Not for construction. Contact your local Schneider Electric sales office or your local Schneider Electric distributor.

■ For enclosure styles, see Dimensions on page 14-10.

◆ When 240 V tap is used, there will be 3-5% taps: 1 above and 2 below.

NOTE: FCBN = full capacity below normal
Lugs are furnished by customer
Refer to www.squared.com/exfmr for additional information.

Table 14.2: EE Three-Phase Transformers

kVA	Catalog No.	\$ Price	Full Capacity Taps	Degree C Temp. Rise	Weight (lbs) ★	Enclosure ★▼
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**Three Phase—480 V Delta Primary
208Y/120 V Secondary 60 Hz; cULus Listed**

15	EE15T3H	3941.00	6-2.5%2+4-	150	220	17D
30	EE30T3H	5181.00	6-2.5%2+4-	150	260	17D
45	EE45T3H	6234.00	6-2.5%2+4-	150	368	18D
75	EE75T3H	9393.00	6-2.5%2+4-	150	585	20D
112.5	EE112T3H	12513.00	6-2.5%2+4-	150	620	21D
150	EE150T3H	16334.00	6-2.5%2+4-	150	835	22D
225	EE225T3H	21776.00	6-2.5%2+4-	150	1110	24D
300	EE300T3H	27924.00	6-2.5%2+4-	150	1350	25D
500	EE500T68H	39052.00	4-2.5%2+2-	150	1875	30D
750	EE750T68H	75516.00	4-2.5%2+2-	150	2965	31D
1000	EE1000T77H	121263.00	2-5%1+1-	150	5200	△

**Three Phase—600 V Delta Primary
208Y/120 V Secondary 60 Hz; cULus Listed**

15	EE15T65H	5011.00	6-2.5%2+4-	150	240	17D
30	EE30T65H	6586.00	6-2.5%2+4-	150	290	17D
45	EE45T65H	7925.00	6-2.5%2+4-	150	372	18D
75	EE75T65H	11941.00	6-2.5%2+4-	150	585	20D
112.5	EE112T65H	15907.00	6-2.5%2+4-	150	712	21D
150	EE150T65H	20765.00	6-2.5%2+4-	150	790	22D
225	EE225T65H	27683.00	6-2.5%2+4-	150	945	24D
300	EE300T65H	35498.00	6-2.5%2+4-	150	1305	25D
500	EE500T79H	49645.00	4-2.5%2+2-	150	1870	30D
750	EE750T79H	96000.00	4-2.5%2+2-	150	2990	31D
1000	EE1000T79H	154157.00	4-2.5%2+2-	150	5800	△

**Three-Phase—208 V Delta Primary
208Y/120 V Secondary 60 Hz; cULus Listed**

15	EE15T211H	5011.00	3-5%1+2-	150	210	17D
30	EE30T211H	6586.00	3-5%1+2-	150	210	17D
45	EE45T211H	7925.00	3-5%1+2-	150	374	18D
75	EE75T211H	11941.00	3-5%1+2-	150	575	20D
112.5	EE112T211H	15907.00	3-5%1+2-	150	604	21D
150	EE150T211H	20765.00	3-5%1+2-	150	795	22D
225	EE225T211H	27683.00	3-5%1+2-	150	1000	24D
300	EE300T211H	35498.00	3-5%1+2-	150	1425	25D
500	EE500T211H	49645.00	3-5%1+2-	150	1870	30D

**Three-Phase—240 V Delta Primary
208Y/120 V Secondary 60 Hz; cULus Listed**

15	EE15T67H	5011.00	6-2.5%2+4-	150	240	17D
30	EE30T67H	6586.00	6-2.5%2+4-	150	260	17D
45	EE45T67H	7925.00	6-2.5%2+4-	150	379	18D
75	EE75T67H	11941.00	6-2.5%2+4-	150	590	20D
112.5	EE112T67H	15907.00	6-2.5%2+4-	150	620	21D
150	EE150T67H	20765.00	6-2.5%2+4-	150	805	22D
225	EE225T67H	27683.00	6-2.5%2+4-	150	972	24D
300	EE300T239H	35498.00	3-5%1+2-	150	1360	25D
500	EE500T239H	49645.00	3-5%1+2-	150	1900	25D

**Three-Phase—480 V Primary
240 V Delta Secondary w/120 Center Tap 60 Hz;
cULus Listed**

240 Delta with 120 center taps have historically been limited to 5% capacity on the center tap. The new units from Schneider Electric offer greater limits on 120 V center tap. Limits are determined by the total transformer loading and the following formula used to size new 120 V center tap units:
(240 V balanced loads) + 2.5 x (120 V loads) = kVA required

15	EE15T151HCT	5117.00	2-5%-	150	220	17D
30	EE30T151HCT	6726.00	2-5%-	150	295	17D
45	EE45T151HCT	8093.00	2-5%-	150	385	18D
75	EE75T151HCT	12193.00	2-5%-	150	590	19D
112.5	EE112T151HCT	16243.00	2-5%-	150	635	21D
150	EE150T151HCT	21202.00	2-5%-	150	783	22D
225	EE225T151HCT	28266.00	2-5%-	150	1080	24D
300	EE300T151HCT	36247.00	2-5%-	150	1355	25D
500	EE500T151HCT	50691.00	2-5%-	150	2137	30D
750	EE750T151HCT	98020.00	2-5%-	150	2982	31D
1000	EE1000T151HCT	149905.00	2-5%-	150	5800	△

★ Not for construction. Contact your local Schneider Electric sales office or your local Schneider Electric distributor.

▼ For enclosure styles, see Dimensions on page 14-10.

△ Contact factory.

NOTE: Lugs are furnished by customer

Table 14.3: EE Three-Phase Transformers (cont.)

kVA	Catalog No.	\$ Price	Full Capacity Taps	Deg. C Temp. Rise	Weight (lbs) ▲	Enclosure ▲ ■
Three-Phase—208 V Delta Primary						
480Y/277 V Secondary 60 Hz; cULus Listed						
15	EE15T212H	5011.00	3-5%1+2-	150	230	17D
30	EE30T212H	6586.00	3-5%1+2-	150	260	17D
45	EE45T212H	7925.00	3-5%1+2-	150	375	18D
75	EE75T212H	11941.00	3-5%1+2-	150	550	20D
112.5	EE112T212H	15907.00	3-5%1+2-	150	615	21D
150	EE150T212H	20765.00	3-5%1+2-	150	800	22D
225	EE225T212H	27683.00	3-5%1+2-	150	991	24D
300	EE300T212H	35498.00	3-5%1+2-	150	1425	25D
500	EE500T212H	49645.00	3-5%1+2-	150	1919	30D
Three Phase—480 V Delta Primary						
480Y/277 V Secondary 60 Hz; cULus Listed						
15	EE15T1814H	5011.00	6-2.5%2+4-	150	215	17D
30	EE30T1814H	6586.00	6-2.5%2+4-	150	260	17D
45	EE45T1814H	7925.00	6-2.5%2+4-	150	385	18D
75	EE75T1814H	11941.00	6-2.5%2+4-	150	660	20D
112.5	EE112T1814H	15907.00	6-2.5%2+4-	150	615	21D
150	EE150T1814H	20765.00	6-2.5%2+4-	150	820	22D
225	EE225T1814H	27683.00	6-2.5%2+4-	150	998	24D
300	EE300T1814H	35498.00	6-2.5%2+4-	150	1500	25D
500	EE500T76H	49645.00	4-2.5%2+2-	150	2040	30D
Three Phase—480 V Delta Primary						
240 V Delta Secondary 60 Hz; cULus Listed						
15	EE15T6H	4651.00	6-2.5%2+4-	150	220	17D
30	EE30T6H	6114.00	6-2.5%2+4-	150	260	17D
45	EE45T6H	7357.00	6-2.5%2+4-	150	368	18D
75	EE75T6H	11084.00	6-2.5%2+4-	150	585	20D
112.5	EE112T6H	14766.00	6-2.5%2+4-	150	620	21D
150	EE150T6H	19274.00	6-2.5%2+4-	150	835	22D
225	EE225T6H	25696.00	6-2.5%2+4-	150	1110	24D
300	EE300T6H	32951.00	6-2.5%2+4-	150	1350	25D
500	EE500T63H	46082.00	4-2.5%2+2-	150	1875	30D
750	EE750T63H	89109.00	4-2.5%2+2-	150	2965	31D
1000	EE1000T78H	143091.00	2-5%1+1-	150	5200	◆

- ▲ Not for construction. Contact your local Schneider Electric sales office or your local Schneider Electric distributor.
- For enclosure styles, see Dimensions Table, on page 14-10.
- ◆ Contact factory.

NOTE: FCBN = full capacity below normal
Lugs are furnished by customer

EE Three-Phase Copper Wound Transformers

All Square D transformers are available with optional copper windings. Contact your nearest Schneider Electric sales office for voltage or kVA not listed below.

Table 14.4: EE Three-Phase Copper Wound Transformers

kVA	Catalog No.	\$ Price	Full Capacity Taps	Deg. C Temp. Rise	Weight (lbs) ★	Enclosure ★ ▼
Three-Phase—480 V Delta Primary						
208Y/120 V Secondary 60 Hz; cULus Listed. Copper Windings						
15	EE15T3HCU	5912.00	6-2.5%2+4-	150	310	17D
30	EE30T3HCU	8261.00	6-2.5%2+4-	150	340	17D
45	EE45T3HCU	9943.00	6-2.5%2+4-	150	418	18D
75	EE75T3HCU	14979.00	6-2.5%2+4-	150	642	20D
112.5	EE112T3HCU	19955.00	6-2.5%2+4-	150	725	21D
150	EE150T3HCU	26049.00	6-2.5%2+4-	150	915	22D
225	EE225T3HCU	34725.00	6-2.5%2+4-	150	1125	24D
300	EE300T3HCU	44531.00	6-2.5%2+4-	150	1535	25D
500	EE500T68HCU	62277.00	4-2.5%2+2-	150	2350	30D
750	EE750T68HCU	114674.00	4-2.5%2+2-	150	3485	31D

- ★ Not for construction. Contact your local Schneider Electric sales office or your local Schneider Electric distributor.
- ▼ For enclosure styles, see Dimensions Table, on page 14-10.

NOTE: FCBN = full capacity below normal
Lugs are furnished by customer

EE Single- and Three-Phase Watchdog® Low Temperature Rise Transformers

Designed to maximize energy efficiency, supplies highest efficient levels for 24 hour loading greater than 50%. Extra long life expectancy using 220 °C insulation system designed for full load operation at a maximum temperature rise of 115 °C or 80 °C instead of 150 °C. Continuous emergency overload capability of 15% on 115 °C rise and 30% on 80 °C rise.

Table 14.5: EE Watchdog Transformers

kVA	Catalog No.	\$ Price	Full Capacity Taps	Weight (lbs) ▲	Enclosure ▲ □
115 °C Rise Single-Phase—240x480 V Primary					
120/240 V Secondary 60 Hz; cULus Listed					
15	EE15S3HF	4453.00	6-2.5%2+4-◇	275	17H
25	EE25S3HF	5797.00	6-2.5%2+4-◇	340	18H
37.5	EE37S3HF	7726.00	6-2.5%2+4-◇	395	18H
50	EE50S3HF	9396.00	6-2.5%2+4-◇	620	21D
75	EE75S3HF	12738.00	6-2.5%2+4-◇	685	22D
100	EE100S3HF	19381.00	6-2.5%2+4-◇	985	24D
80 °C Rise Single-Phase—240x480 V Primary					
120/240 V Secondary 60 Hz; cULus Listed					
15	EE15S3HB	4918.00	6-2.5%2+4-◇	280	17H
25	EE25S3HB	6403.00	6-2.5%2+4-◇	345	18H
37.5	EE37S3HB	8533.00	6-2.5%2+4-◇	400	18H
50	EE50S3HB	10378.00	6-2.5%2+4-◇	625	21D
75	EE75S3HB	14069.00	6-2.5%2+4-◇	690	22D
100	EE100S3HB	21406.00	6-2.5%2+4-◇	995	24D
115 °C Rise Three-Phase—480 V Delta Primary					
208Y/120 V Secondary 60 Hz; cULus Listed					
15	EE15T3HF	4861.00	6-2.5%2+4-	220	17D
30	EE30T3HF	7292.00	6-2.5%2+4-	368	18D
45	EE45T3HF	8777.00	6-2.5%2+4-	585	20D
75	EE75T3HF	13222.00	6-2.5%2+4-	620	21D
112.5	EE112T3HF	17614.00	6-2.5%2+4-	835	22D
150	EE150T3HF	22993.00	6-2.5%2+4-	980	24D
225	EE225T3HF	30652.00	6-2.5%2+4-	1349	25D
300	EE300T68HF	39094.00	6-2.5%2+4-	2050	30D
500	EE500T68HF	54673.00	6-2.5%2+2-	2330	30D

115 °C Rise Three-Phase—480 V Delta Primary 208Y/120 V Secondary 60 Hz; cULus Listed. Copper Windings

15	EE15T3HFUCU	7292.00	6-2.5%2+4-	260	17D
30	EE30T3HFUCU	10938.00	6-2.5%2+4-	420	18D
45	EE45T3HFUCU	13164.00	6-2.5%2+4-	642	20D
75	EE75T3HFUCU	19833.00	6-2.5%2+4-	675	20D
112.5	EE112T3HFUCU	26421.00	6-2.5%2+4-	741	21D
150	EE150T3HFUCU	34491.00	6-2.5%2+4-	1050	22D
225	EE225T3HFUCU	45978.00	6-2.5%2+4-	1220	24D
300	EE300T68HFUCU	58641.00	6-2.5%2+4-	2300	30D
500	EE500T68HFUCU	82010.00	6-2.5%2+2-	2409	30D

80 °C Rise Three-Phase—480 V Delta Primary 208Y/120 V Secondary 60 Hz; cULus Listed

15	EE15T3HB	5304.00	6-2.5%2+4-	220	17D
30	EE30T3HB	7956.00	6-2.5%2+4-	368	18D
45	EE45T3HB	9574.00	6-2.5%2+4-	585	20D
75	EE75T3HB	14424.00	6-2.5%2+4-	620	21D
112.5	EE112T3HB	19215.00	6-2.5%2+4-	835	22D
150	EE150T3HB	24641.00	6-2.5%2+4-	980	24D
225	EE225T3HB	33438.00	6-2.5%2+4-	1349	25D
300	EE300T68HB	43282.00	6-2.5%2+4-	2400	30D
500	EE500T68HB	60531.00	6-2.5%2+2-	2964	31D

80 °C Rise Three-Phase—480 V Delta Primary 208Y/120 V Secondary 60 Hz; cULus Listed. Copper Windings

15	EE15T3HBUCU	7956.00	6-2.5%2+4-	260	17D
30	EE30T3HBUCU	11934.00	6-2.5%2+4-	418	18D
45	EE45T3HBUCU	14361.00	6-2.5%2+4-	642	20D
75	EE75T3HBUCU	21636.00	6-2.5%2+4-	725	21D
112.5	EE112T3HBUCU	28823.00	6-2.5%2+4-	910	21D
150	EE150T3HBUCU	36962.00	6-2.5%2+4-	1125	24D
225	EE225T3HBUCU	45143.00	6-2.5%2+4-	1425	24D
300	EE300T68HBUCU	64923.00	6-2.5%2+4-	2400	30D
500	EE500T68HBUCU	90797.00	6-2.5%2+2-	2578	30D

- ◇ Not for construction. Contact your local Schneider Electric sales office or your local Schneider Electric distributor.
- For enclosure styles, see Dimensions Table, on page 14-10.
- ◇ When 240 V tap is used, there will be 3-5% taps: 1 above and 2 below.

NOTE: FCBN = full capacity below normal
Lugs are furnished by customer

TRANSFORMERS 14

Sealed Single- and Three-Phase Transformers

Table 14.6: Sealed Transformers

kVA	Catalog No.	\$ Price	Full Capacity Taps	Degree C Temp. Rise	Weight (lbs) ▲	Enclosure ▼
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**Single Phase—240 X 480 V Primary
120/240 V Secondary; 60 Hz; cULus Listed**

0.05	50SV1A	182.00	None	55	4.2	1A
0.10	100SV1A	214.00	None	55	4.5	2A
0.15	150SV1A	254.00	None	55	6.2	3A
0.25	250SV1B	270.00	None	80	10.5	4A
0.50	500SV1B	386.00	None	80	13.8	5A
0.75	750SV1F	460.00	None	115	15.5	6A
1	1S1F	602.00	None	115	21.2	7A
1.5	1.5S1F	724.00	None	115	30.1	8A
2	2S1F	896.00	None	115	39.1	9A
3	3S1F	1144.00	None	115	60	10A
5	5S1F	1556.00	None	115	115	13B
7.5	7S1F	2188.00	None	115	135	13B
10	10S1F	2712.00	None	115	165	13B

**Single Phase—600 V Primary
120/240 V Secondary; 60 Hz; cULus Listed**

0.05	50SV51A	182.00	None	55	4.2	1A
0.10	100SV51A	214.00	None	55	4.5	2A
0.15	150SV51A	262.00	None	55	6.2	3A
0.25	250SV51B	290.00	None	80	10.5	4A
0.50	500SV51B	408.00	None	80	13.8	5A
0.75	750SV51F	486.00	None	115	15.5	6A
1	1S51F	634.00	None	115	21.2	7A
1.5	1.5S51F	758.00	None	115	30.1	8A
2	2S51F	940.00	None	115	39.1	9A
3	3S4F	1240.00	2-5%FCBN	115	60	10A
5	5S4F	1676.00	2-5%FCBN	115	115	13B
7.5	7S4F	2348.00	2-5%FCBN	115	135	13B
10	10S4F	2922.00	2-5%FCBN	115	165	13B

**Single Phase—120x240 V Primary
120/240 V Secondary; 60 Hz; cULus Listed**

1	1S6F	1090.00	None	115	21.2	7A
1.5	1.5S6F	1558.00	None	115	30.1	8A
2	2S6F	1746.00	None	115	39.1	9A
3	3S6F	1892.00	None	115	60	10A
5	5S6F	2418.00	None	115	110	13B
7.5	7S6F	3216.00	None	115	135	13B
10	10S6F	3992.00	None	115	150	13B

**Single Phase—208 V Primary
120/240 V Secondary; 60 Hz; cULus Listed**

1	1S7F	1090.00	None	115	21.2	7A
1.5	1.5S7F	1558.00	None	115	30.1	8A
2	2S7F	1746.00	None	115	39.1	9A
3	3S7F	1892.00	None	115	60	10A
5	5S7F	2418.00	None	115	110	13B
7.5	7S7F	3216.00	None	115	135	13B
10	10S7F	3992.00	None	115	150	13B

**Single Phase—277 V Primary
120/240 V Secondary; 60 Hz; cULus Listed**

1	1S8F	1090.00	None	115	21.2	7A
1.5	1.5S8F	1558.00	None	115	30.1	8A
2	2S8F	1746.00	None	115	39.1	9A
3	3S8F	1892.00	None	115	60	10A
5	5S8F	2418.00	None	115	110	13B
7.5	7S8F	3216.00	None	115	135	13B
10	10S8F	3992.00	None	115	150	13B

**Three Phase—480 V Delta Primary
208Y/120 V Secondary; 60 Hz; UL/cULus Listed;
Copper Windings**

3	3T2F	2016.00	2-5%FCBN	115	120	12C
6	6T2F	2310.00	2-5%FCBN	115	145	12C
9	9T2F	3088.00	2-5%FCBN	115	235	14C
15	15T2F	4644.00	2-5%FCBN	115	300	14C
30	30T2F	8536.00	2-5%FCBN	115	660	16C

**Three Phase—480 V Delta Primary
240 V Delta Secondary; 60 Hz; UL/cULus Listed;
Copper Windings**

3	3T5F	2016.00	2-5%FCBN	115	120	12C
6	6T5F	2310.00	2-5%FCBN	115	145	12C
9	9T5F	3088.00	4-2.5%FCBN	115	235	14C
15	15T5F	4644.00	4-2.5%FCBN	115	300	14C
30	30T5F	8536.00	4-2.5%FCBN	115	660	16C

▲ Not for construction. Contact your local Schneider Electric sales office or your local Schneider Electric distributor.

■ For enclosure styles, see Dimensions Table, on page 14-10.

NOTE: FCBN = full capacity below normal

Sealed Single-Phase Export Model Transformers

These general purpose transformers are designed to accommodate voltage systems worldwide. Export model transformers 10 kVA and smaller, certified by TUV (File no. E9571881.01) to meet EN61558-1, are CE marked in addition to being UL and cULus Listed. For CE marked transformers in other ratings, contact your nearest Schneider Electric sales office for CE marked transformers up to 300 kVA, single and three phase. See page 14-11 for optional Fingersafe® terminal block cover kit.

Table 14.7: Sealed Export Model Transformers

kVA	Catalog No.	\$ Price	Full Capacity Taps	Deg. C Temp. Rise	Weight (lbs) ◆	Enclosure ◆★
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Single Phase—190/200/208/220/380/400/416/440 V Primary; 110/220 V Secondary; 60 Hz; cULus Listed

1e	1S67F	1180.00	None	115	21.2	7A
2	2S67F	1716.00	None	115	39.1	9A
3	3S67F	2290.00	None	115	55.2	10A
5	5S67F	2554.00	None	115	135	13B
7.5	7S67F	3314.00	None	115	165	13B
10	10S67F	4004.00	None	115	165	13B

◆ Not for construction. Contact your local Schneider Electric sales office or your local Schneider Electric distributor.

★ For enclosure styles, see Dimensions Table, on page 14-10.

Sealed Single-Phase Buck and Boost Transformers

Buck and boost transformers are isolating transformers that have 120 x 240 volt primaries and either 12/24 or 16/32 volt secondaries. When used as isolating transformers they carry the full load stated on the nameplate. By special interconnection of the windings, an autotransformer is obtained.

NOTE: When used to supply a 3-phase, 4-wire load, the source must be 3-phase, 4-wire.

Table 14.8: Sealed Buck and Boost Transformers

kVA	120 x 240 V Primary 60 Hz		240 x 480 V Primary 60 Hz		Degree C Temp. Rise	Weight (lbs) ▼	Enclosure ▼▲	
	12/24 V Secondary	16/32 V Secondary	\$ Price	24/48 V Secondary				\$ Price
.05	50SV43A	50SV46A	206.00	50SV82A	284.00	55	4.2	1A
.10	100SV43A	100SV46A	246.00	100SV82A	344.00	55	4.5	2A
.15	150SV43A	150SV46A	276.00	150SV82A	386.00	55	6.2	3A
.25	250SV43B	250SV46B	328.00	250SV82B	460.00	80	10.5	4A
.50	500SV43B	500SV46B	420.00	500SV82B	588.00	80	13.8	5A
.75	750SV43F	750SV46F	552.00	750SV82F	774.00	115	15.5	6A
1.0	1S43F	1S46F	676.00	1S82F	948.00	115	21.2	7A
1.5	1.5S43F	1.5S46F	830.00	1.5S82F	1162.00	115	30.1	8A
2.0	2S43F	2S46F	1072.00	2S82F	1500.00	115	39.1	9A
3.0	3S43F	3S46F	1480.00	3S82F	2072.00	115	60	10A

▼ Not for construction. Contact your local Schneider Electric sales office or your local Schneider Electric distributor.

▲ For enclosure styles, see Dimensions Table, on page 14-10.

□ Dimensions: 14.50 (H) x 8.60 (W) x 6.50 (D).

NOTE: Refer to www.us.squared.com/buckboost for additional information.

14 TRANSFORMERS

Sealed Single- and Three-Phase Stainless Steel Enclosed Transformers

Stainless steel enclosures provide better corrosion resistance than standard painted enclosures. Schneider Electric has a complete line of stainless steel transformers to meet demands for extra protection in corrosive environments.

The transformers listed below are built with an epoxy-resin encapsulated core and coil assembly inside of a non-ventilated #316 stainless steel enclosure. Terminals are flexible copper lead wire. When connections are made using an appropriate method, the final transformer installation is virtually impervious to contamination from materials such as acids, food products, organic solvents, salt water, or similar. Transformers are cULus Listed for NEMA 3R indoor or outdoor use.

Ventilated and non-ventilated transformers built using #316 stainless steel enclosures are also available. These are well suited for moderately corrosive locations where enclosure protection and appearance are important. Contact your nearest Schneider Electric sales office for details.

Table 14.9: Stainless Steel Enclosed Transformers

kVA	Catalog No.	\$ Price	Full Capacity Taps	Degree C Temp. Rise	Weight (lbs)	Enclosure
Single-Phase—240x480 V Primary						
120/240 V Secondary 60 Hz; cULus Listed						
1	1S1FSS	1274.00	None	115	21	7A
1.5	1.5S1FSS	1778.00	None	115	30	8A
2	2S1FSS	1914.00	None	115	39	9A
3	3S1FSS	2684.00	None	115	60	10A
5	5S1FSS	3880.00	None	115	110	13B
7.5	7.5S1FSS	4164.00	None	115	135	13B
10	10S1FSS	4764.00	None	115	150	13B
15	15S1FSS	7036.00	None	115	225	15B
25	25S1FSS	9606.00	None	115	300	15B
Single-Phase—480 V Primary						
120/240 V Secondary 60 Hz; cULus Listed						
3	3S40FSS	2684.00	2-5% FCBN	115	60	10A
5	5S40FSS	3880.00	2-5% FCBN	115	110	13B
7.5	7.5S40FSS	4164.00	2-5% FCBN	115	135	13B
10	10S40FSS	4764.00	2-5% FCBN	115	150	13B
15	15S40FSS	7036.00	2-5% FCBN	115	225	15B
25	25S40FSS	9606.00	2-5% FCBN	115	300	15B
Three-Phase—480 V Delta Primary						
208Y/120 V Secondary 60 Hz; cULus Listed						
3	3T2FSS	4116.00	2-5% FCBN	115	120	12C
6	6T2FSS	4924.00	2-5% FCBN	115	145	12C
9	9T2FSS	6072.00	2-5% FCBN	115	234	14C
15	15T2FSS	7726.00	2-5% FCBN	115	300	14C
30	30T2FSS	13022.00	2-5% FCBN	115	660	16C

- ▲ Not for construction. Contact your local Schneider Electric sales office for certified prints.
- For enclosure styles, see Dimensions on page 14-10.

NOTE: FCBN = full capacity below normal
Lugs are furnished by customer

Additional voltages not listed below are available. Contact your nearest Schneider Electric sales office for details. Stainless steel is painted.

Table 14.10: NEMA 4X Stainless Steel Enclosed

kVA	Catalog No.	\$ Price	Full Capacity Taps	Degree C Temp. Rise
Single-Phase—480 V Primary, 120/240 V Secondary 60 Hz				
1	1S40F4XSS	9920.00	2-5% FCBN	115
2	2S40F4XSS	10380.00	2-5% FCBN	115
3	3S40F4XSS	10816.00	2-5% FCBN	115
5	5S40F4XSS	12332.00	2-5% FCBN	115
7.5	7.5S40F4XSS	13426.00	2-5% FCBN	115
10	10S40F4XSS	14460.00	2-5% FCBN	115
15	15S40F4XSS	18496.00	2-5% FCBN	115
25	25S40F4XSS	27720.00	2-5% FCBN	115
Three-Phase—480 V Delta Primary, 208Y/120 V Secondary 60 Hz				
3	3T2F4XSS	12676.00	2-5% FCBN	115
6	6T2F4XSS	13906.00	2-5% FCBN	115
9	9T2F4XSS	17506.00	2-5% FCBN	115
15	15T2F4XSS	30540.00	2-5% FCBN	115
30	30T2F4XSS	41612.00	2-5% FCBN	115

NOTE: FCBN = full capacity below normal
Lugs are furnished by customer

Non-Ventilated Single- and Three-Phase Transformers

Non-ventilated enclosures are used in environments where large quantities of dust, airborne contaminants, metal particles, or moisture make ventilated transformers impractical. These transformers are also used when water spray from any direction is possible.

The 150 °C rise transformers listed below are built using 220 class insulated core and coil assemblies similar to ventilated units. However, the core and conductors are oversized to maintain proper temperature rise with the limited cooling capacity of a non-ventilated enclosure. Therefore, non-ventilated transformers are larger and heavier than the same kVA and voltage ventilated equivalent.

The 115 °C rise epoxy-resin encapsulated transformers listed below are furnished non-ventilated at standard price.

Non-ventilated enclosures meet protection code IP55 (dust and jetting water protection) per standard IEC-605.29. While not listed to a specific NEMA standard, they are suitable for indoor or outdoor use.

Table 14.11: Non-Ventilated Transformers

kVA	Catalog No.	\$ Price	Full Capacity Taps	Degree C Temp. Rise	Weight (lbs)	Enclosure
Single-Phase—240X480 V Primary						
120/240 V Secondary 60 Hz						
15	15S3HNV	5042.00	6-2.5%2 + 4-▼	150	230	17E
25	25S3HNV	7562.00	6-2.5%2 + 4-▼	150	310	18E
37.5	37.5S3HNV	11248.00	6-2.5%2 + 4-▼	150	350	18E
50	50S3HNV	14384.00	6-2.5%2 + 4-▼	150	450	21E
75	75S3HNV	17600.00	6-2.5%2 + 4-▼	150	880	24E
100	100S3HNV	22286.00	6-2.5%2 + 4-▼	150	975	25E
Three-Phase—480 V Delta Primary						
208Y/120 V Secondary 60 Hz						
30	30T3HNV	8090.00	6-2.5%2 + 4-	150	340	19E
45	45T3HNV	12396.00	6-2.5%2 + 4-	150	510	19E
75	75T3HNV	19118.00	6-2.5%2 + 4-	150	1025	22E
112.5	112.5T3HNV	25848.00	6-2.5%2 + 4-	150	1250	24E
150	150T3HNV	33348.00	6-2.5%2 + 4-	150	2000	25E
225	225T3HNV	50238.00	6-2.5%2 + 4-	150	2100	30E
300	300T3HNV	55152.00	6-2.5%2 + 4-	150	3950	31E

- ◆ Not for construction. Contact your local Schneider Electric sales office for certified prints.
- ★ For enclosure styles, see Dimensions on page 14-10.
- ▼ When 240 V tap is used, there will be 3-5% taps: 1 above and 2 below.

NOTE: FCBN = full capacity below normal
Lugs are furnished by customer



EE NL and NLP Series Transformers

- Three-phase dry type transformers, 480 Delta—208Y/120
- Aluminum or copper windings
- Electrostatic shield
- Class 220 insulation
- Double size neutral terminal for additional customer neutral cables
- Additional coil capacity to compensate for higher non-linear load loss
- cULus Listed

Table 14.12: EE NL and NLP Series Transformers

kVA	Catalog No.	\$ Price	Taps	Weight (lbs) ▲	Enclosure ▲ ■
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NL Series for Typical Non-Linear Load Service—K-4 Rated—Aluminum Windings; 150 °C Rise

15	EE15T3HISNL	5253.00	6-2.5% 2+4-	266	17D
30	EE30T3HISNL	7880.00	6-2.5% 2+4-	360	18D
45	EE45T3HISNL	9484.00	6-2.5% 2+4-	515	20D
75	EE75T3HISNL	14287.00	6-2.5% 2+4-	560	21D
112.5	EE112T3HISNL	19033.00	6-2.5% 2+4-	800	22D
150	EE150T3HISNL	24845.00	6-2.5% 2+4-	1150	24D
225	EE225T3HISNL	34567.00	6-2.5% 2+4-	1349	25D
300	EE300T68HISNL	47885.00	4-2.5% 2+2-	2125	30D
500	EE500T68HISNL	66168.00	4-2.5% 2+2-	2595	31D

NLP Series for More Severe Non-Linear Load Service—K-13 Rated—Aluminum Windings; 150 °C Rise

15	EE15T3HISNLP	5976.00	6-2.5% 2+4-	261	17D
30	EE30T3HISNLP	8963.00	6-2.5% 2+4-	365	18D
45	EE45T3HISNLP	10789.00	6-2.5% 2+4-	415	20D
75	EE75T3HISNLP	17876.00	6-2.5% 2+4-	535	21D
112.5	EE112T3HISNLP	21650.00	6-2.5% 2+4-	750	22D
150	EE150T3HISNLP	28261.00	6-2.5% 2+4-	755	24D
225	EE225T3HISNLP	38507.00	6-2.5% 2+4-	775	25D
300	EE300T68HISNLP	51295.00	4-2.5% 2+2-	2350	30D
500	EE500T68HISNLP	71277.00	4-2.5% 2+2-	3150	31D

NL Series for Typical Non-Linear Load Service—K-4 Rated—Aluminum Windings; 115 °C Rise

15	EE15T3HFISNL	5834.00	6-2.5% 2+4-	256	17D
30	EE30T3HFISNL	8751.00	6-2.5% 2+4-	320	18D
45	EE45T3HFISNL	10533.00	6-2.5% 2+4-	515	20D
75	EE75T3HFISNL	15866.00	6-2.5% 2+4-	535	21D
112.5	EE112T3HFISNL	21137.00	6-2.5% 2+4-	800	22D
150	EE150T3HFISNL	27592.00	6-2.5% 2+4-	1110	24D
225	EE225T3HFISNL	38389.00	6-2.5% 2+4-	1349	25D
300	EE300T68HFISNL	53179.00	4-2.5% 2+2-	1750	30D
500	EE500T68HFISNL	73483.00	4-2.5% 2+2-	2295	31D

NLP Series for More Severe Non-Linear Load Service—K-13 Rated—Aluminum Windings; 115 °C Rise

15	EE15T3HFISNLP	6636.00	6-2.5% 2+4-	256	17D
30	EE30T3HFISNLP	9954.00	6-2.5% 2+4-	375	18D
45	EE45T3HFISNLP	11981.00	6-2.5% 2+4-	500	20D
75	EE75T3HFISNLP	18048.00	6-2.5% 2+4-	560	21D
112.5	EE112T3HFISNLP	24043.00	6-2.5% 2+4-	800	22D
150	EE150T3HFISNLP	31386.00	6-2.5% 2+4-	1110	24D
225	EE225T3HFISNLP	42764.00	6-2.5% 2+4-	1335	25D
300	EE300T68HFISNLP	56966.00	4-2.5% 2+2-	2350	30D
500	EE500T68HFISNLP	79157.00	4-2.5% 2+2-	3200	31D

kVA	Catalog No.	\$ Price	Taps	Weight (lbs) ▲	Enclosure ▲ ■
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NL Series for Typical Non-Linear Load Service—K-4 Rated—Copper Windings; 150 °C Rise

15	EE15T3HISCUNL	8838.00	6-2.5% 2+4-	260	17D
30	EE30T3HISCUNL	13258.00	6-2.5% 2+4-	395	18D
45	EE45T3HISCUNL	15957.00	6-2.5% 2+4-	730	20D
75	EE75T3HISCUNL	24040.00	6-2.5% 2+4-	640	20D
112.5	EE112T3HISCUNL	32025.00	6-2.5% 2+4-	935	22D
150	EE150T3HISCUNL	41806.00	6-2.5% 2+4-	1300	24D
225	EE225T3HISCUNL	56073.00	6-2.5% 2+4-	1450	24D
300	EE300T68HISCUNL	80447.00	4-2.5% 2+2-	2450	25D

NLP Series for More Severe Non-Linear Load Service—K-13 Rated—Copper Windings; 150 °C Rise

15	EE15T3HISCUNLP	9744.00	6-2.5% 2+4-	260	17D
30	EE30T3HISCUNLP	14618.00	6-2.5% 2+4-	430	18D
45	EE45T3HISCUNLP	17594.00	6-2.5% 2+4-	730	20D
75	EE75T3HISCUNLP	26506.00	6-2.5% 2+4-	640	20D
112.5	EE112T3HISCUNLP	35310.00	6-2.5% 2+4-	985	22D
150	EE150T3HISCUNLP	46094.00	6-2.5% 2+4-	1135	24D
225	EE225T3HISCUNLP	61448.00	6-2.5% 2+4-	1477	25D
300	EE300T68HISCUNLP	81560.00	4-2.5% 2+2-	2650	30D

NL Series for Typical Non-Linear Load Service—K-4 Rated—Copper Windings; 115 °C Rise

15	EE15T3HFISCUNL	8751.00	6-2.5% 2+4-	260	17D
30	EE30T3HFISCUNL	13127.00	6-2.5% 2+4-	395	18D
45	EE45T3HFISCUNL	15801.00	6-2.5% 2+4-	730	20D
75	EE75T3HFISCUNL	23799.00	6-2.5% 2+4-	640	20D
112.5	EE112T3HFISCUNL	31706.00	6-2.5% 2+4-	935	22D
150	EE150T3HFISCUNL	41388.00	6-2.5% 2+4-	1300	24D
225	EE225T3HFISCUNL	57584.00	6-2.5% 2+4-	1450	25D
300	EE300T68HFISCUNL	79769.00	4-2.5% 2+2-	2450	25D

NLP Series for More Severe Non-Linear Load Service—K-13 Rated—Copper Windings; 115 °C Rise

15	EE15T3HFISCUNLP	9954.00	6-2.5% 2+4-	260	17D
30	EE30T3HFISCUNLP	14931.00	6-2.5% 2+4-	430	18D
45	EE45T3HFISCUNLP	17972.00	6-2.5% 2+4-	730	20D
75	EE75T3HFISCUNLP	27072.00	6-2.5% 2+4-	640	20D
112.5	EE112T3HFISCUNLP	36065.00	6-2.5% 2+4-	985	22D
150	EE150T3HFISCUNLP	47079.00	6-2.5% 2+4-	1135	24D
225	EE225T3HFISCUNLP	64146.00	6-2.5% 2+4-	1477	25D
300	EE300T68HFISCUNLP	85449.00	4-2.5% 2+2-	2650	30D

- ▲ Not for construction. Contact your local Schneider Electric sales office for certified prints.
- For enclosure styles, see Dimensions Table, page 14-10.

NOTE: Available with optional 80 °C temperature rise via product selector.

Lugs are furnished by customer.



14 TRANSFORMERS

New!

EE Harmonic Mitigating Transformers

Harmonic mitigating transformers use phase shifting, electromagnetic flux, and source impedance to help reduce harmonics in electrical distribution systems.

- Meet NEMA Standard TPI for energy efficiency
- Copper windings (aluminum windings optional)
- Class 200 insulation
- Double size neutral terminal for additional customer neutral cables
- cULus Listed
- Available with a 600 V, 240 V, or 208 V primary—Use the Product Selector to derive the part number
- Schneider Electric offers harmonic profile testing on all harmonic mitigating transformers, as well as on all standard transformers. Testing includes scoping the harmonic profile on the secondary winding to show the new reduced harmonic wave form on the primary winding. The impact of harmonics on transformer losses via modified NEMA ST-20 testing to include harmonic profile current.

Table 14.13: EE Harmonic Mitigating Transformers

kVA	Catalog No.	\$ Price	Full Capacity Taps	Weight (lbs) ▲	Enclosure ◆
480 V Delta Primary to 208/120 Secondary					
0° Phase Shift, 130 °C Rise					
15	HM15T208NCU	12670.00	6-2.5% 2+4-	310	17D
30	HM30T208NCU	19416.00	6-2.5% 2+4-	340	17D
45	HM45T208NCU	23364.00	6-2.5% 2+4-	418	18D
75	HM75T208NCU	35204.00	6-2.5% 2+4-	642	20D
112.5	HM112T208NCU	46900.00	6-2.5% 2+4-	725	21D
150	HM150T208NCU	61226.00	6-2.5% 2+4-	915	22D
225	HM225T208NCU	81616.00	6-2.5% 2+4-	1125	24D
300	HM300T208NCU	104664.00	6-2.5% 2+4-	1535	25D
+30° Phase Shift, 130 °C Rise					
15	HM15T255NCU	12670.00	3-5% 1+3-	310	17D
30	HM30T255NCU	19416.00	3-5% 1+3-	340	17D
45	HM45T255NCU	23364.00	3-5% 1+3-	418	18D
75	HM75T255NCU	35204.00	3-5% 1+3-	642	20D
112.5	HM112T255NCU	46900.00	3-5% 1+3-	725	21D
150	HM150T255NCU	61226.00	3-5% 1+3-	915	22D
225	HM225T255NCU	81616.00	3-5% 1+3-	1125	24D
300	HM300T255NCU	104664.00	3-5% 1+3-	1535	25D
+15° Phase Shift, 130 °C Rise					
15	HM15T251NCU	12670.00	6-2.5% 2+4-	310	17D
30	HM30T251NCU	19416.00	6-2.5% 2+4-	340	17D
45	HM45T251NCU	23364.00	6-2.5% 2+4-	418	18D
75	HM75T251NCU	35204.00	6-2.5% 2+4-	642	20D
112.5	HM112T251NCU	46900.00	6-2.5% 2+4-	725	21D
150	HM150T251NCU	61226.00	6-2.5% 2+4-	915	22D
225	HM225T251NCU	81616.00	6-2.5% 2+4-	1125	24D
300	HM300T251NCU	104664.00	4-2.5% 2+2-	1535	25D
-15° Phase Shift, 130 °C Rise					
15	HM15T259NCU	12670.00	6-2.5% 2+4-	310	17D
30	HM30T259NCU	19416.00	6-2.5% 2+4-	340	17D
45	HM45T259NCU	23364.00	6-2.5% 2+4-	418	18D
75	HM75T259NCU	35204.00	6-2.5% 2+4-	642	20D
112.5	HM112T259NCU	46900.00	6-2.5% 2+4-	725	21D
150	HM150T259NCU	61226.00	6-2.5% 2+4-	915	22D
225	HM225T259NCU	81616.00	6-2.5% 2+4-	1125	24D
300	HM300T259NCU	104664.00	4-2.5% 2+2-	1535	25D

▲ Not for construction. Contact your local Schneider Electric sales office for certified prints.
◆ For enclosure styles, see Dimensions Table, page 14-10.

NOTE: Lugs are furnished by customer.



Drive Isolation Transformers

Special design considerations must be made for the requirements of both adjustable frequency and dc motor drive power isolation. Allowance for high surge, harmonic and offset currents are taken into account in the design of Square D® brand drive isolation transformers. Drive isolation transformers are not shielded isolation transformers, but act to lessen transient generation into the supply power and act as a buffer for SCR current surges.

Table 14.14: Drive Isolation Transformers

kVA	Catalog No.	\$ Price	Full Capacity Taps	Weight (lbs) ◆	Enclosure ◆★
Three-Phase 60 Hz; Class B (IEEE Standard 597-1983)					
460 V Delta Primary 460Y/265 V Secondary 60 Hz, 150 °C Rise					
7.5	7T145HDIT	4464.00	2-5% 1+1-	180	17D
11	11T145HDIT	5302.00	2-5% 1+1-	180	17D
15	15T145HDIT	5464.00	2-5% 1+1-	190	17D
20	20T145HDIT	6550.00	2-5% 1+1-	210	17D
27	27T145HDIT	6722.00	2-5% 1+1-	250	17D
34	34T145HDIT	7392.00	2-5% 1+1-	295	18D
40	40T145HDIT	8406.00	2-5% 1+1-	350	18D
51	51T145HDIT	9830.00	2-5% 1+1-	445	20D
63	63T145HDIT	10694.00	2-5% 1+1-	465	20D
75	75T145HDIT	12500.00	2-5% 1+1-	550	20D
93	93T145HDIT	16026.00	2-5% 1+1-	845	22D
118	118T145HDIT	17848.00	2-5% 1+1-	920	22D
145	145T145HDIT	20014.00	2-5% 1+1-	1025	22D
175	175T145HDIT	23096.00	2-5% 1+1-	1120	25D
220	220T145HDIT	28228.00	2-5% 1+1-	1200	25D
275	275T145HDIT	37720.00	2-5% 1+1-	1500	25D
330	330T145HDIT	39694.00	2-5% 1+1-	1390	25D
440	440T145HDIT	48660.00	2-5% 1+1-	2700	30D
550	550T145HDIT	60456.00	2-5% 1+1-	3800	30D
460 V Delta Primary 230Y/132 V Secondary 60 Hz, 150 °C Rise					
7.5	7T144HDIT	4464.00	2-5% 1+1-	180	17D
11	11T144HDIT	5302.00	2-5% 1+1-	180	17D
15	15T144HDIT	5464.00	2-5% 1+1-	190	17D
20	20T144HDIT	6550.00	2-5% 1+1-	210	17D
27	27T144HDIT	6722.00	2-5% 1+1-	250	17D
34	34T144HDIT	7392.00	2-5% 1+1-	295	18D
40	40T144HDIT	8406.00	2-5% 1+1-	350	18D
51	51T144HDIT	9830.00	2-5% 1+1-	445	20D
63	63T144HDIT	10694.00	2-5% 1+1-	465	20D
75	75T144HDIT	12500.00	2-5% 1+1-	550	20D
93	93T144HDIT	16026.00	2-5% 1+1-	845	22D
118	118T144HDIT	17848.00	2-5% 1+1-	920	22D
145	145T144HDIT	20014.00	2-5% 1+1-	1025	22D
175	175T144HDIT	23096.00	2-5% 1+1-	1120	25D
220	220T144HDIT	28228.00	2-5% 1+1-	1200	25D
275	275T144HDIT	37720.00	2-5% 1+1-	1500	25D
330	330T144HDIT	39694.00	2-5% 1+1-	1390	25D
440	440T144HDIT	48660.00	2-5% 1+1-	2700	30D
550	550T144HDIT	60456.00	2-5% 1+1-	3800	30D

◆ Not for construction. Contact your local Schneider Electric sales office for certified prints.
★ For enclosure styles, see Dimensions Table, page 14-10.

NOTE: Lugs are furnished by customer.

14 TRANSFORMERS

1201–15,000 Volts, Three-Phase, Indoor Transformers

All transformers are built with 220 °C insulation and 150 °C temperature rise. For 115 °C rise add 10% to price and F to catalog number. For 80 °C rise add 20% to price and B to catalog number. Check with factory to verify dimensional changes and weights. For copper windings, consult the factory.

Standard high voltage taps: 4-2.5%, 2AN and 2BN. For 4-2.5% FCBN, add BN to catalog number.

Table 14.15: Three-Phase Transformers

kVA	Catalog No.	\$ Price	Weight (lbs)	Enclosure ▲ See 14-10
2.4 kV and 5 kV Voltage Class 60 Hz 150 °C Rise				
112.5	112T()H	42603.00	1400	36D
150	150T()H	52338.00	1600	37D
225	225T()H	70422.00	1900	37D
300	300T()H	84972.00	2100	37D
500	500T()H	99231.00	3200	38D
750 ■	750T()H	124257.00	3900	39F
1000 ■	1000T()H	154230.00	7400	40F
1500 ■	1500T()H	185367.00	9000	40F
2000 ■	2000T()H	212721.00	10900	41F
2500 ■	2500T()H	257244.00	12200	34F
15 kV Voltage Class 60 Hz 150 °C Rise				
112.5	112T()H	48822.00	2000	30D
150	150T()H	60033.00	2200	30D
225	225T()H	81771.00	2800	31D
300	300T()H	95448.00	3300	31D
500	500T()H	116400.00	5000	32F
750 ■	750T()H	138225.00	6000	33F
1000 ■	1000T()H	175764.00	7400	33F
1500 ■	1500T()H	201081.00	9000	33F
2000 ■	2000T()H	235710.00	10900	34F
2500 ■	2500T()H	272958.00	12200	34F
3000 ■	3000T()H	351528.00	15400	35F

▲ Enclosures for indoor use only. Letters in parenthesis refer to enclosure styles on page 14-10. Transformers suitable for outdoor use are available on special order. Adding a weather shield will not make medium voltage transformer suitable for outdoor use.

■ Dimensions and prices listed for 480 volt secondary only. For 240 V or 208 V, contact your local Schneider Electric sales office.

NOTE: Lugs are furnished by customer

Table 14.16: Three-Phase Voltage Codes

kV Class	Code	Primary	Secondary
2.4 30 kV BIL	13	2400 Delta	208Y/120
	14	2400 Delta	480Y/277
	15	2400 Delta	240 Delta
	16	2400 Delta	480 Delta
	17	2400 Delta	600 Delta
	5 30 kV BIL	18	4160 Delta
19		4160 Delta	480Y/277
20		4160 Delta	240 Delta
21		4160 Delta	480 Delta
22		4160 Delta	600 Delta
23		4160Y/2400	240 Delta
25		4160Y/2400	480 Delta
26		4160/2400	600 Delta
27		4800 Delta	208Y/120
28		4800 Delta	480Y/277
29		4800 Delta	240 Delta
30		4800 Delta	480 Delta
31		4800 Delta	600 Delta
15 60 kV BIL		32	7200 Delta
	33	7200 Delta	480Y/277
	34	7200 Delta	240 Delta
	35	7200 Delta	480 Delta
	36	7200 Delta	600 Delta
	37	12000 Delta	208Y/120
	38	12000 Delta	480Y/277
	39	12000 Delta	240 Delta
	40	12000 Delta	480 Delta
	41	12000 Delta	600 Delta
	42	12470 Delta	208Y/120
	43	12470 Delta	480Y/277
	44	12470 Delta	240 Delta
	45	12470 Delta	480 Delta
	46	12470 Delta	600 Delta
	47	12470Y/7200	240 Delta
	48	12470Y/7200	480 Delta
	49	12470Y/7200	600 Delta
	50	13200 Delta	208Y/120
	51	13200 Delta	480Y/277
52	13200 Delta	240 Delta	
53	13200 Delta	480 Delta	
54	13200 Delta	600 Delta	
55	13200Y/7620	240 Delta	
56	13200Y/7620	480 Delta	
57	13200Y/7620	600 Delta	
58	13800 Delta	208Y/120	
59	13800 Delta	480Y/277	
60	13800 Delta	240 Delta	
61	13800 Delta	480 Delta	
62	13800 Delta	600 Delta	

1201–15,000 Volts, Single-Phase, Indoor Transformers

All transformers are built with 220 °C insulation and 150 °C temperature rise. For 115 °C rise add 10% to price and F to catalog number. For 80 °C rise add 20% to price and B to catalog number, and check with factory for dimensional changes.

Standard high voltage taps: 4–2.5%, 2AN and 2BN. For 4-2.5% FCBN, add BN to catalog number.

Table 14.17: Single-Phase Transformers

kVA	Catalog No.	\$ Price	Weight (lbs)	Enclosure ♦ See 14-10
2.4 kV Voltage Class 60 Hz 150 °C Rise				
167	167S()H	45444.00	1500	37D
250	250S()H	59253.00	2200	38D
333	333S()H	72783.00	3000	38D
5 kV Voltage Class 60 Hz 150 °C Rise				
167	167S()H	48777.00	1500	37D
250	250S()H	63312.00	2200	38D
333	333S()H	77478.00	3200	38D
15 kV Voltage Class 60 Hz 150 °C Rise				
167	167S()H	56136.00	2400	38D
250	250S()H	72705.00	3400	38D
333	333S()H	86835.00	5000	43F

♦ Enclosures for indoor use only. Letters in parenthesis refer to enclosure styles on page 14-10. Transformers suitable for outdoor use are available on special order. Adding a weather shield will not make medium voltage transformer suitable for outdoor use.

NOTE: Lugs are furnished by customer

Table 14.18: Single-Phase Voltage Codes

kV Class	Code	Primary	Secondary
2.4	14	2400 Delta	120/240
	25	2400 Delta	277
30 kV BIL	13	2400/4160Y	120/240
	15	4800 Delta	20/240
	16	4160 Delta	20/240
	24	2400/4160Y	277
	26	4800 Delta	277
	27	4160 Delta	277
15 60 kV BIL	17	4160/7200Y	120/240
	18	7200	120/240
	28	4160/7200Y	277
	29	7200	277
	19	4160/12470Y	120/240
	20	7620/13200Y	120/240
	21	12470	120/240
	22	13200	120/240
	23	13800	120/240
	30	4160/12470Y	277
	31	7620/13200Y	277
	32	12470	277
	33	13200	277
	34	13800	277

Special Notes

- Distribution class lightning arresters are recommended as good practice, but are not included in the above prices. Arrester addition may affect dimensions. Contact your nearest Schneider Electric sales office.
- For 15 kV transformers requiring bottom entrance or exit, a separate compartment is required for adequate termination space and clearance. Transformers 1500 kVA and above with top entrance or exit may require a separate compartment to provide adequate wiring space. Contact your nearest Schneider Electric sales office for special requirements.
- If the transformer requires a 94-inch high enclosure for a switchgear line-up, or if a special enclosure is required, contact your nearest Schneider Electric sales office.
- For 95 kV BIL, consult your nearest Schneider Electric sales office. (May affect dimensions.)

Ordering Information

To complete the three- or single-phase catalog numbers on this page:

- Select the voltage you require from the charts above.
- Insert the voltage code number in place of the () in the catalog number.

Example 1: 1000 kVA, 3Ø, 60 Hz, 150 °C temp. rise, 60 kV BIL, NEMA sound level, ventilated indoor enclosure, 13.2 kV delta 480Y/277, with 2-2.5% full capacity taps. 2AN and 2BN = 1000T51H.

Example 2: 750 kVA 3Ø, 60 Hz, 80 °C temp. rise, 60 kV BIL, NEMA sound level, ventilated indoor enclosure, 4160 V Delta, 480Y/277, 2-2.5% full capacity taps. 2AN and 2BN = Part number 750T19HB. Add 20% to listed price.

Example 3: 167 kVA, 2400/4160Y-120/240, 1Ø 60 Hz unit is 167S13H. The unit would be supplied with 2–2.5% above and 2–2.5% full capacity below normal taps on the primary.

14 TRANSFORMERS



1201–15,000 Volts, Three-Phase, Indoor Transformers

Department of Energy 10 CFR Part 431 Energy Conservation Program for Commercial Equipment requires the shipment of Energy Efficient, Medium Voltage Transformers starting January 1, 2010.

All transformers are built with 220 °C insulation and 150 °C temperature rise. For 115 °C rise add 10% to price and F to catalog number. For 80 °C rise add 20% to price and B to catalog number. Check with factory to verify dimensional changes and weights. For copper windings, consult the factory.

Standard high voltage taps: 4–2.5%, 2AN and 2BN. For 4–2.5% FCBN, add BN to catalog number.

Table 14.19: EE Three-Phase Transformers

kVA	Catalog No.	\$ Price	Weight (lbs)	Enclosure See 14-10
2.4 kV and 5 kV Voltage Class, 60 Hz, 150 °C Rise				
112.5	EE112T(J)H	51125.00	1540	36D
150	EE150T(J)H	62805.00	1760	37D
225	EE225T(J)H	84500.00	2090	37D
300	EE300T(J)H	101965.00	2310	37D
500	EE500T(J)H	119077.00	3520	38D
750	EE750T(J)H	149110.00	4290	39F
1000	EE1000T(J)H	185080.00	8140	40F
1500	EE1500T(J)H	222440.00	9900	40F
2000	EE2000T(J)H	255265.00	11990	42F
2500	EE2500T(J)H	308692.00	13420	34F
15 kV Voltage Class, 60 Hz, 150 °C Rise				
112.5	EE112T(J)H	58586.00	2200	38D
150	EE150T(J)H	72309.00	2420	38D
225	EE225T(J)H	98125.00	3080	38D
300	EE300T(J)H	137445.00	3630	45D
500	EE500T(J)H	139650.00	5500	44F
750	EE750T(J)H	165870.00	6600	39F
1000	EE1000T(J)H	210915.00	8140	40F
1500	EE1500T(J)H	241298.00	9900	40F
2000	EE2000T(J)H	282852.00	11990	41F
2500	EE2500T(J)H	327549.00	13420	42F
3000	EE3000T(J)H	421833.00	16940	42F

NOTE: Lugs are furnished by customer
See page 14-8 for voltage codes and Special Notes.



1201–15,000 Volts, Single-Phase, Indoor Transformers

All transformers are built with 220 °C insulation and 150 °C temp. rise. For 115 °C rise add 10% to price and F to catalog number. For 80 °C rise add 20% to price and B to catalog number, and check with factory for dimensional changes.

Standard high voltage taps: 4–2.5%, 2AN and 2BN. For 4–2.5% FCBN, add BN to catalog number.

Table 14.20: EE Single-Phase Transformers

kVA	Catalog No.	\$ Price	Weight (lbs)	Enclosure See 14-10
2.4 kV Voltage Class, 60 Hz, 150 °C Rise				
167	EE167S(J)H	45444.00	1650	37D
250	EE250S(J)H	59253.00	2420	38D
333	EE333S(J)H	72783.00	3300	38D
5 kV Voltage Class, 60 Hz, 150 °C Rise				
167	EE167S(J)H	48777.00	1650	37D
250	EE250S(J)H	63312.00	2420	38D
333	EE333S(J)H	77478.00	3520	38D
15 kV Voltage Class, 60 Hz, 150 °C Rise				
167	EE167S(J)H	56136.00	2640	38D
250	EE250S(J)H	72705.00	3740	38D
333	EE333S(J)H	86835.00	5500	43F

NOTE: Lugs are furnished by customer
See page 14-8 for voltage codes and Special Notes.

Ordering Information

To complete the three- or single-phase catalog numbers on this page:

1. Select the voltage you require from the charts above.
2. Insert the voltage code number (from page 14-8) in place of the () in the catalog number.

Example 1: 1000 kVA, 3Ø, 60 Hz, 150 °C temp. rise, 60 kV BIL, NEMA sound level, ventilated indoor enclosure, 13.2 kV delta 480Y/277, with 2-2.5% full capacity taps. 2AN and 2BN = 1000T51H.

Example 2: 750 kVA 3Ø, 60 Hz, 80 °C temp. rise, 60 kV BIL, NEMA sound level, ventilated indoor enclosure, 4160 V Delta, 480Y/277, 2-2.5% full capacity taps. 2AN and 2BN = Part number 750T19HB. Add 20% to listed price.

Example 3: 167 kVA, 2400/4160Y-120/240, 1Ø 60 Hz unit is 167S13H. The unit would be supplied with 2–2.5% above and 2–2.5% full capacity below normal taps on the primary.

The Department of Energy (DOE) has determined that energy conservation standards for MV Distribution Transformers will result in significant conservation of energy, so they have passed the DOE 10 CFR Part 431 Energy Conservation program for Commercial Equipment. Starting January 1, 2010, all medium voltage distribution transformers with ratings of 2500 kVA and below, 34.5 kV primary and below, and 600 V class secondary voltages must meet minimum efficiency requirements. Liquid Filled Padmounts, Liquid Filled Substations, Dry Type VPI, and Power Cast products shipped after January 1, 2010 will all be included. The minimum efficiency tables are listed below. Please contact your nearest Schneider Electric Sales Office for more information.

Table 14.21: Standard Efficiency Levels for Liquid Immersed Distribution Transformers ▲

Single Phase		Three Phase	
KVA	Efficiency %	KVA	Efficiency %
10	98.67	15	98.36
15	98.76	30	98.62
25	98.91	45	98.76
37.5	99.01	75	98.91
50	99.08	112.5	99.01
75	99.17	150	99.08
100	99.23	225	99.17
167	99.25	300	99.23
250	99.32	500	99.25
333	99.36	750	99.32
500	99.42	1000	99.36
667	99.46	1500	99.42
833	99.49	2000	99.46
—	—	2500	99.49

▲ All Efficiency values are at 50% of nameplate-rated load, determined according to the DOE Test Procedure 10 CFR 431, Subpart K, Appendix A.

Table 14.22: Standard Levels for Medium Voltage Dry Type Distribution Transformers, Tabular Form ■

Single Phase			Three Phase				
BIL kVA	Efficiency (%) (in kV)		BIL kVA	Efficiency (%) (in kV)			
	20-45	46-95		≥96	20-45	46-95	≥96
15	98.1	97.86	—	15	97.5	97.18	—
25	98.33	98.12	—	30	97.9	97.63	—
37.5	98.49	98.3	—	45	98.1	97.86	—
50	98.6	98.42	—	75	98.33	98.12	—
75	98.73	98.57	98.53	112.5	98.49	98.3	—
100	98.82	98.67	98.63	150	98.6	98.42	—
167	98.96	98.83	98.8	225	98.73	98.57	98.53
250	99.07	98.95	98.91	300	98.82	98.67	98.63
333	99.14	99.03	98.99	500	98.96	98.83	98.8
500	99.22	99.12	99.09	750	99.07	98.95	98.91
667	99.27	99.18	99.15	1000	99.14	99.03	98.99
833	99.31	99.23	99.2	1500	99.22	99.12	99.09
—	—	—	—	2000	99.27	99.18	99.15
—	—	—	—	2500	99.31	99.23	99.2

■ All Efficiency values are at 50% of nameplate-rated load, determined according to the DOE Test Procedure 10 CFR 431, Subpart K, Appendix A.

NOTE: BIL = Basic Impulse Level

Enclosures and Accessories

Table 14.23: Enclosure Dimensions and Accessories ▲

Enclosure Number/Style	Height		Width		Depth		Mounting	Weathershield	Wall Mounting Bracket	Ceiling Mounting Bracket	Insulation Class °C	
	In.	mm	In.	mm	In.	mm						
1	A	5.00	127	4.47	114	3.44	87	Wall	■	◆	—	105
2	A	5.50	140	4.47	114	3.44	87	Wall	■	◆	—	105
3	A	5.00	127	4.85	123	3.75	95	Wall	■	◆	—	105
4	A	5.50	140	5.23	133	4.06	103	Wall	■	◆	—	130
5	A	6.19	157	6.19	157	4.69	119	Wall	■	◆	—	130
6	A	6.69	170	6.19	157	4.69	119	Wall	■	◆	—	180
7	A	8.13	270	6.94	176	5.31	135	Wall	■	◆	—	180
8	A	8.25	210	8.68	220	6.56	167	Wall	■	◆	—	180
9	A	9.56	243	8.68	220	6.56	167	Wall	■	◆	—	180
10	A	10.50	267	8.62	219	6.50	165	Wall	■	◆	—	180
11	A	12.56	319	8.62	219	6.50	165	Wall	■	◆	—	180
12	C	13.50	343	14.75	375	9.00	229	Wall	■	◆	—	180
13	B	14.75	375	9.75	248	11.75	298	Wall	■	◆	—	180
14	C	14.75	375	19.10	485	12.25	311	Wall	■	◆	—	180
15	B	20.00	508	15.00	381	13.50	343	Wall	■	◆	—	180
16	C	22.00	559	25.00	635	13.50	343	Wall	■	◆	—	180
17	D	27.00	686	20.00	508	16.00	406	Floor	WS363	WMB361362	CMB363	220
	E	27.00	686	20.00	508	16.00	406	Floor	▼	WMB361362	CMB363	220
18	H	37.00	940	20.00	508	16.00	406	Floor	WS363	WMB361362	CMB363	220
	D	30.00	762	20.00	508	20.00	508	Floor	WS363	WMB363364	CMB363	220
19	E	30.00	762	20.00	508	20.00	508	Floor	▼	WMB363364	CMB363	220
	H	37.00	940	20.00	508	20.00	508	Floor	WS363	WMB363364	CMB363	220
20	D	30.00	762	30.00	762	20.00	508	Floor	WS364	WMB363364	CMB364	220
	E	30.00	762	30.00	762	20.00	508	Floor	▼	WMB363364	CMB364	220
21	D	37.00	940	30.00	762	24.00	610	Floor	WS364	—	CMB364	220
	E	37.00	940	30.00	762	24.00	610	Floor	▼	—	CMB364	220
22	D	43.75	1111	32.00	813	27.00	686	Floor	WS380	—	CMB380	220
	E	43.75	1111	32.00	813	27.00	686	Floor	▼	—	CMB380	220
23	E	48	1219	48	1219	29.5	749	Floor	▼	—	—	220
24	D	49.5	1257	35	889	28.5	724	Floor	WS381	—	CMB381	220
	E	49.5	1257	35	889	28.5	724	Floor	Note 5	—	CMB381	220
25	D	49.5	1257	41	1041	32	813	Floor	WS382	—	—	220
	E	49.5	1257	41	1041	32	813	Floor	▼	—	—	220
26	D	57.5	1461	41	1041	32	813	Floor	WS382	—	—	220
28	D	60	1524	56	1422	36	914	Floor	WS370A	—	—	220
	E	60	1524	56	1422	36	914	Floor	▼	—	—	220
29	D	68	1727	56	1422	36	914	Floor	WS370A	—	—	220
30	D	71	1803	48	1219	36	914	Floor	WS383	—	—	220
31	D	74	1880	56	1422	40.5	1029	Floor	WS384	—	—	220
31	E	60	1524	56	1422	36	914	Floor	▼	—	—	220
32	F	91.5	2388	56	1422	54	1372	Floor	★	—	—	220
33	F	94	2388	72	1829	54	1372	Floor	★	—	—	220
34	F	94	2388	84	2134	54	1372	Floor	★	—	—	220
35	F	94	2388	96	2438	54	1372	Floor	★	—	—	220
36	D	40.5	1031	36	916	21.75	553	Floor	★	—	—	220
37	D	51.5	1310	40.5	1031	26.5	674	Floor	★	—	—	220
38	D	66	1679	50.5	1285	32	814	Floor	★	—	—	220
39	F	90	2290	80	2036	50	1272	Floor	★	—	—	220
40	F	90	2290	90	2290	50	1272	Floor	★	—	—	220
41	F	100	2545	100	2545	60	1527	Floor	★	—	—	220
42	F	108	2748	108	2748	60	1527	Floor	★	—	—	220
43	F	90	2290	64	1628	44	1120	Floor	★	—	—	220
44	F	90	2290	72	1832	50	1272	Floor	★	—	—	220
45	D	80	2036	64	1628	44	1120	Floor	★	—	—	220

- ▲ These dimensions are not for construction. Contact your local Schneider Electric sales office for certified prints.
- ◆ Transformer is NEMA 3R Standard. Weathershield not required for outdoor use.
- ◆ Wall mounting brackets are a standard part of transformer enclosure. Accessory not required.
- ★ Special outdoor construction required for NEMA 3R applications. Contact your local Schneider Electric sales office for details.
- ▼ Indoor/outdoor enclosure standard. Weathershield not required.

NOTE: Wall mounting brackets can only be used with units weighing no more than 700 lbs.
Ceiling mounting brackets can only be used with units weighing no more than 1200 lbs.
Weathershields are only available for units 600 Volts and below. For 2.4 kV, 5 kV, and 15 kV units suitable for outdoor use, contact the factory.



Style A—NEMA 3R Rated Style B—NEMA 3R Rated



Style C—NEMA 3R Rated



Styles D and H—NEMA 2 Rated
Converts to NEMA 3R with Weathershield



Style E—IP55 Rated



Style F—NEMA 1 Rated

Lugs are not supplied with transformer units. They must be purchased separately.

Table 14.24: Lug Kits

Catalog No. ▲	\$ Price Per Kit	Lugs Per Kit	Wire Range	Cap Screws	Current Range	Bonding Lugs per Kit	Wire Range
Single-Phase Primary, Single-Phase Secondary, Three-Phase Delta Primary, Three-Phase Delta Secondary							
DASKP100	28.00	3	1/0–14 STR.	1/4 x 1 in	Up to 100 A	Not applicable	Not applicable
DASKP250	51.00	3	350 kcmil–6 STR.	1/4 x 1 in	101 to 250 A		
DASKP400	91.00	3	600 kcmil–4 STR. (2) 250 kcmil–1/0 STR.	1/4 x 1 3/4 in	201 to 400 A		
DASKP600	182.00	6	600 kcmil–4 STR. (2) 250 kcmil–1/0 STR.	1/4 x 1 3/4 in	601 to 800 A		
DASKP1000	272.00	9	600 kcmil–2 STR.	3/8 x 2 in	601 to 800 A		
DASKP1200	363.00	12	600 kcmil–2 STR.	3/8 x 2 in	801 to 1200 A		
Single-Phase Primary and Secondary, Three-Phase Wye Secondary, Three-Phase Delta with Center Tap							
DASKS100	47.00	5	1/0–14 STR.	1/4 x 1 in	Up to 100 A	1	2–14 STR.
DASKS250	109.00	5	350 kcmil–6 STR.	1/4 x 1 in	101 to 250 A	1	2–14 STR.
DASKS400	169.00	5	600 kcmil–4 STR. (2) 250 kcmil–1/0 STR.	1/4 x 1 3/4 in	201 to 400 A	1	1/0–14 STR.
DASKS600	320.00	10	600 kcmil–2 STR.	1/4 x 1 3/4 in	601 to 800 A	1	250 kcmil–6 STR.
DASKS1000	472.00	15	600 kcmil–2 STR.	3/8 x 2 in	601 to 800 A	1	250 kcmil–6 STR.
DASKS1200	622.00	20	600 kcmil–2 STR.	3/8 x 2 in	801 to 1200 A	1	250 kcmil–6 STR.
DASKS2000	774.00	25	600 kcmil–2 STR.	3/8 x 2 in	1201 to 2000 A	1	350 kcmil–6 STR.

▲ Subject to minimum billing and freight charges when not ordered with transformer.

Table 14.25: VERSAtile™ Compression Lugs and Mechanical Set-Screw Types—UL Listed Lugs AL9CU (90 °C Rated)

Transformer kVA Sizes	Kit Catalog No.	\$ Price Per Kit	Terminal Lugs		Aluminum or Copper Conductor Range (AWG or kcmil)	Hardware Included	
			Qty.	Catalog No.		Qty.	Cap Screws
15–37 1/2 1Ø 15–45 3Ø	VCELSK1	261.00	8	VCELO2114S1	#8–1/0 #4–300 kcmil	8	1/4 x 1 in
			5	VCELO30516H1		1	1/4 x 2 in
50–75 1Ø 75–112 1/2 3Ø	VCELSK2	424.00	13	VCELO30516H1	#4–300 kcmil	8	1/4 x 1 in
						8	1/4 x 2 in
100–167 1Ø 150–300 3Ø	VCELSK3	2407.00	3	VCELO30516H1	500–750 kcmil Al 500 kcmil Cu	3	1/4 x 3/4 in
			26	VCELO7512H1		16	3/8 x 2 in
500 3Ø	VCELSK4	2619.00	34	VCELO7512H1	500–750 kcmil Al 500 kcmil Cu	21	3/8 x 2 in

Fingersafe® terminal block cover kits for encapsulated transformers can be used to meet touch-safe requirements of EN60-204.

Table 14.26: Fingersafe Terminal Block Cover Kits

Fits Enclosure	Kit Catalog No.	\$ Price
7A (1 kVA)	7400ENT9	200.00
9A (2 kVA)	7400ENT11	200.00
10A (3 kVA)	7400ENT11	200.00
13B (5–10 kVA)	7400ENT13	284.00

Table 14.27: Weathershields; Wall and Ceiling Mounting Brackets

Weathershields		Wall Mounting Brackets ■	
Catalog No.	\$ Price	Catalog No.	\$ Price
WS363	299.00	WMB361362	663.00
WS364	299.00	WMB363364	663.00
WS370A	2325.00	Ceiling Mounting Brackets ♦	
WS380	682.00	Catalog No.	\$ Price
WS381	682.00	CMB363	300.00
WS382	1160.00	CMB364	300.00
WS383	2184.00	CMB380	748.00
WS384	2464.00	CMB381	748.00

- Wall mounting brackets may be prohibited in some California areas requiring 12-inch spacing from wall. Wall mounting brackets can only be used with units weighing no more than 700 lbs.
- ♦ Base channels are supplied for ceiling mounting; trapeze hangers must be furnished by customer. Ceiling mounting brackets can only be used with units weighing no more than 1200 lbs.

Table 14.28: Sound Levels

kVA	NEMA Standard Sound Level
0–9	40 dB
10–50	45 dB
51–150	50 dB
151–300	55 dB
301–500	60 dB
501–700	62 dB
701–1000	64 dB

★ Square D® brand transformers meet NEMA standards for sound level. Lower sound levels are available at an additional charge.

Sealed Mini Power-Zone® Transformers

The Square D® brand Mini Power-Zone® power supply from Schneider Electric provides the answer to requirements for a portable, compact power supply for small loads. Because the Mini Power-Zone is furnished as a complete package, considerable savings in installation time and costs can be realized. Its NEMA 3R enclosure is suitable for both indoor and outdoor use. The transformer is copper wound, 115 °C rise, and epoxy-resin encapsulated. The panel section has copper bus and uses Square D® brand QO® style circuit breakers.

NOTE: Mini Power-Zone units are UL listed per UL 1062 File E92978.

Mini Power-Zone centers are furnished with factory-installed primary main and secondary main circuit breakers only. Circuit breaker ratings are selected to meet National Electrical Code requirements and to coordinate with transformer magnetizing inrush current. Feeder circuit breakers are standard QO plug-on type, which should be ordered, as required, from your local Schneider Electric distributor's stock. If ground fault protection is required, Qwik-Gard® circuit breakers may be used in all sizes. Tandem breakers are not permitted.

The Mini Power-Zone uses a separate transformer and panel board section. This allows the panel section to be removed and wired first if desired. Also the transformer can be replaced without disturbing the panel section and associated wiring. The new transformer simply slides into the top of the panel section and primary and secondary leads are reconnected to the main circuit breakers.

Standard Enclosure (NEMA 3R)

Table 14.29: With QO Plug-On Feeder Circuit Breakers

Interrupting Rating: 18 kAIC

kVA	Catalog No.	\$ Price	Input Voltage	Full Capacity Taps	Weight (lbs)	Dimensions ▲						Primary Main Circuit Breaker Rating (A)	Secondary Main Circuit Breaker Rating (A)	Feeder Breakers	
						H		W		D				Max. No. 1- or 2-Pole	Max. A
						In.	mm	In.	mm	In.	mm				
Output Single-Phase Panel Rated 120/240															
5	MPZ5S40F	3890.00	480	2-5% FCBN	175	32.7	831	12.0	305	11.9	302	15	30	10 or 5	20
7.5	MPZ7S40F	4542.00	480	2-5% FCBN	200	32.7	831	12.0	305	11.9	302	20	40		30
10	MPZ10S40F	4938.00	480	2-5% FCBN	215	32.7	831	12.0	305	11.9	302	30	60		40
15	MPZ15S40F	6410.00	480	2-5% FCBN	390	42.9	1090	17.4	442	13.5	343	60	80	28 or 14	60
25	MPZ25S40F	9560.00	480	2-5% FCBN	390	42.9	1090	17.4	442	13.5	343	100	125		100
Output Three-Phase Panel Rated 208Y/120															
15	MPZ15T2F	10088.00	480	2-5% FCBN	710	44.6	1133	27.4	696	13.6	345	40	60	24 or 8	40
22.5	MPZ22T2F	12502.00	480	2-5% FCBN	725	44.6	1133	27.4	696	13.6	345	70	80		60
30	MPZ30T2F	15338.00	480	2-5% FCBN	755	44.6	1133	27.4	696	13.6	345	90	100		80

▲ Dimensions: DO NOT use for construction. Contact your local Schneider Electric sales office for certified prints.

NOTE: FCBN = full capacity below normal

Table 14.30: With QO Plug-On Feeder Circuit Breakers

Interrupting Rating: 25 kAIC

kVA	Catalog No.	\$ Price	Input Voltage	Full Capacity Taps	Weight (lbs)	Dimensions ■						Primary Main Circuit Breaker Rating (A)	Secondary Main Circuit Breaker Rating (A)	Feeder Breakers	
						H		W		D				Max. No. 1- or 2-Pole	Max. A
						In.	mm	In.	mm	In.	mm				
Output Single-Phase Panel Rated 120/240—Interrupting Rating 25 AIC															
5	MPZ5S40F25K	6197.00	480	2-5% FCBN	175	32.7	831	12.0	305	11.9	302	15	30	10 or 5	20
7.5	MPZ7S40F25K	6849.00	480	2-5% FCBN	200	32.7	831	12.0	305	11.9	302	20	40		30
10	MPZ10S40F25K	7245.00	480	2-5% FCBN	215	32.7	831	12.0	305	11.9	302	30	60		40
15	MPZ15S40F25K	8717.00	480	2-5% FCBN	390	42.9	1090	17.4	442	13.5	343	60	80	28 or 14	60
25	MPZ25S40F25K	11867.00	480	2-5% FCBN	390	42.9	1090	17.4	442	13.5	343	100	125		100
Output Three-Phase Panel Rated 208Y/120—Interrupting Rating 25 AIC															
15	MPZ15T2F25K	12395.00	480	2-5% FCBN	710	44.6	1133	27.4	696	13.6	345	40	60	24 or 8	40
22.5	MPZ22T2F25K	14809.00	480	2-5% FCBN	725	44.6	1133	27.4	696	13.6	345	70	80		60
30	MPZ30T2F25K	17645.00	480	2-5% FCBN	755	44.6	1133	27.4	696	13.6	345	90	100		80

■ Dimensions: DO NOT use for construction. Contact your local Schneider Electric sales office for certified prints.

NOTE: FCBN = full capacity below normal

Table 14.31: With QOB Bolt-On Feeder Circuit Breakers

Interrupting Rating: 18 kAIC

kVA	Catalog No.	\$ Price	Input Voltage	Full Capacity Taps	Weight (lbs)	Dimensions ♦						Primary Main Circuit Breaker Rating (A)	Secondary Main Circuit Breaker Rating (A)	Feeder Breakers	
						H		W		D				Max. No. 1- or 2-Pole	Max. A
						In.	mm	In.	mm	In.	mm				
Output Single-Phase Panel Rated 120/240															
5	MPZB5S40F	4860.00	480	2-5% FCBN	175	41.0	1041	12.0	305	11.9	302	15	30	10 or 5	20
7.5	MPZB7S40F	5680.00	480	2-5% FCBN	200	41.0	1041	12.0	305	11.9	302	20	40		30
10	MPZB10S40F	6170.00	480	2-5% FCBN	215	41.0	1041	12.0	305	11.9	302	30	60		40
15	MPZB15S40F	8010.00	480	2-5% FCBN	390	51.0	1295	17.4	442	13.5	343	60	80	28 or 14	60
25	MPZB25S40F	11950.00	480	2-5% FCBN	390	51.0	1295	17.4	442	13.5	343	100	125		100
Output Three-Phase Panel Rated 208Y/120															
15	MPZB15T2F	12610.00	480	2-5% FCBN	710	48.6	1234	27.4	696	13.6	345	40	60	24 or 8	40
22.5	MPZB22T2F	15624.00	480	2-5% FCBN	725	48.6	1234	27.4	696	13.6	345	70	80		60
30	MPZB30T2F	19176.00	480	2-5% FCBN	755	48.6	1234	27.4	696	13.6	345	90	100		80

♦ Dimensions: DO NOT use for construction. Contact your local Schneider Electric sales office for certified prints.

NOTE: Other input voltages are available. Contact local Schneider Electric office for part numbers and quotations.
Input voltages that are available: 600, 240, and 208, single- and three-phase.
FCBN = full capacity below normal

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Table 14.32: With QOB Bolt-On Feeder Circuit Breakers

Interrupting Rating: 25 kAIC

kVA	Catalog No.	\$ Price	Input Voltage	Full Capacity Taps	Weight (lbs)	Dimensions ▲						Primary Main Circuit Breaker Rating (A)	Secondary Main Circuit Breaker Rating (A)	Feeder Breakers	
						H		W		D				Max. No. 1- or 2-Pole	Max. A
						In.	mm	In.	mm	In.	mm				
Output Single-Phase Panel Rated 120/240															
5	MPZB5S40F25K	7168.00	480	2-5% FCBN	175	41.0	1041	12.0	305	11.9	302	15	30	10 or 5	20
7.5	MPZB7S40F25K	7987.00	480	2-5% FCBN	200	41.0	1041	12.0	305	11.9	302	20	40		30
10	MPZB10S40F25K	8478.00	480	2-5% FCBN	215	41.0	1041	12.0	305	11.9	302	30	60		40
15	MPZB15S40F25K	10317.00	480	2-5% FCBN	390	51.0	1295	17.4	442	13.5	343	60	80	28 or 14	60
25	MPZB25S40F25K	14257.00	480	2-5% FCBN	390	51.0	1295	17.4	442	13.5	343	100	125		100
Output Three-Phase Panel Rated 208Y/120															
15	MPZB15T2F25K	14917.00	480	2-5% FCBN	710	48.6	1234	27.4	696	13.6	345	40	60	24 or 8	40
22.5	MPZB22T2F25K	17931.00	480	2-5% FCBN	725	48.6	1234	27.4	696	13.6	345	70	80		60
30	MPZB30T2F25K	21483.00	480	2-5% FCBN	755	48.6	1234	27.4	696	13.6	345	90	100		80

▲ Dimensions: DO NOT use for construction. Contact your local Schneider Electric sales office for certified prints.

NOTE: FCBN = full capacity below normal

Table 14.33: With QOB Bolt-On Feeder Circuit Breakers

Interrupting Rating: 65 kAIC

kVA	Catalog No.	\$ Price	Input Voltage	Full Capacity Taps	Weight (lbs)	Dimensions ■						Primary Main Circuit Breaker Rating (A)	Secondary Main Circuit Breaker Rating (A)	Feeder Breakers	
						H		W		D				Max. No. 1- or 2-Pole	Max. A
						In.	mm	In.	mm	In.	mm				
Output Single-Phase Panel Rated 120/240															
5	MPZB5S40F65K	7889.00	480	2-5% FCBN	175	41.0	1041	12.0	305	11.9	302	15	30	10 or 5	20
7.5	MPZB7S40F65K	8708.00	480	2-5% FCBN	200	41.0	1041	12.0	305	11.9	302	20	40		30
10	MPZB10S40F65K	9799.00	480	2-5% FCBN	215	41.0	1041	12.0	305	11.9	302	30	60		40
15	MPZB15S40F65K	11038.00	480	2-5% FCBN	390	51.0	1295	17.4	442	13.5	343	60	80	28 or 14	60
25	MPZB25S40F65K	14978.00	480	2-5% FCBN	390	51.0	1295	17.4	442	13.5	343	100	125		100
Output Three-Phase Panel Rated 208Y/120															
15	MPZB15T2F65K	15638.00	480	2-5% FCBN	710	48.6	1234	27.4	696	13.6	345	40	60	24 or 8	40
22.5	MPZB22T2F65K	18652.00	480	2-5% FCBN	725	48.6	1234	27.4	696	13.6	345	70	80		60
30	MPZB30T2F65K	22204.00	480	2-5% FCBN	755	48.6	1234	27.4	696	13.6	345	90	100		80

■ Dimensions: DO NOT use for construction. Contact your local Schneider Electric sales office for certified prints.

NOTE: FCBN = full capacity below normal

Painted 316 Stainless Steel Enclosure (NEMA 3R)

Table 14.34: With QO Plug-On Feeder Circuit Breakers

Interrupting Rating: 18 kAIC

kVA	Catalog No.	\$ Price	Input Voltage	Full Capacity Taps	Weight (lbs)	Dimensions ♦						Primary Main Circuit Breaker Rating (A)	Secondary Main Circuit Breaker Rating (A)	Feeder Breakers	
						H		W		D				Max. No. 1- or 2-Pole	Max. A
						In.	mm	In.	mm	In.	mm				
Output Single-Phase Panel Rated 120/240															
5	MPZ5S40FSS	11030.00	480	2-5% FCBN	175	32.7	831	12.0	305	11.9	302	15	30	10 or 5	20
7.5	MPZ7S40FSS	12428.00	480	2-5% FCBN	200	32.7	831	12.0	305	11.9	302	20	40		30
10	MPZ10S40FSS	12920.00	480	2-5% FCBN	215	32.7	831	12.0	305	11.9	302	30	60		40
15	MPZ15S40FSS	14758.00	480	2-5% FCBN	390	42.9	1090	17.4	442	13.5	343	60	80	28 or 14	60
25	MPZ25S40FSS	17266.00	480	2-5% FCBN	390	42.9	1090	17.4	442	13.5	343	100	125		100
Output Three-Phase Panel Rated 208Y/120															
15	MPZ15T2FSS	20108.00	480	2-5% FCBN	710	44.6	1133	27.4	696	13.6	345	40	60	24 or 8	40
22.5	MPZ22T2FSS	23122.00	480	2-5% FCBN	725	44.6	1133	27.4	696	13.6	345	70	80		60
30	MPZ30T2FSS	24376.00	480	2-5% FCBN	755	44.6	1133	27.4	696	13.6	345	90	100		80

♦ Dimensions: DO NOT use for construction. Contact your local Schneider Electric sales office for certified prints.

NOTE: FCBN = full capacity below normal

Table 14.35: With QOB Bolt-On Feeder Circuit Breakers

Interrupting Rating: 18 kAIC

kVA	Catalog No.	\$ Price	Input Voltage	Full Capacity Taps	Weight (lbs)	Dimensions ★						Primary Main Circuit Breaker Rating (A)	Secondary Main Circuit Breaker Rating (A)	Feeder Breakers	
						H		W		D				Max. No. 1- or 2-Pole	Max. A
						In.	mm	In.	mm	In.	mm				
Output Single-Phase Panel Rated 120/240															
5	MPZB5S40FSS	13780.00	480	2-5% FCBN	175	41.0	1041	12.0	305	11.9	41.0	15	30	10 or 5	20
7.5	MPZB7S40FSS	15542.00	480	2-5% FCBN	200	41.0	1041	12.0	305	11.9	41.0	20	40		30
10	MPZB10S40FSS	16159.00	480	2-5% FCBN	215	41.0	1041	12.0	305	11.9	41.0	30	60		40
15	MPZB15S40FSS	18442.00	480	2-5% FCBN	390	51.0	1295	17.4	442	13.5	51.0	60	80	28 or 14	60
25	MPZB25S40FSS	21583.00	480	2-5% FCBN	390	51.0	1295	17.4	442	13.5	51.0	100	125		100
Output Three-Phase Panel Rated 208Y/120															
15	MPZB15T2FSS	25135.00	480	2-5% FCBN	710	48.6	1234	27.4	696	13.6	48.6	40	60	24 or 8	40
22.5	MPZB22T2FSS	28896.00	480	2-5% FCBN	725	48.6	1234	27.4	696	13.6	48.6	70	80		60
30	MPZB30T2FSS	30476.00	480	2-5% FCBN	755	48.6	1234	27.4	696	13.6	48.6	90	100		80

★ Dimensions: DO NOT use for construction. Contact your local Schneider Electric sales office for certified prints.

NOTE: FCBN = full capacity below normal

Type T and MultiTap™ Transformers

Type T transformers are designed with low impedance windings for excellent voltage regulation and can accommodate the high inrush current associated with contactors, starters, solenoids, and relays. As the most popular and complete line of control transformers with unmatched design innovations for top performance, Type Ts are manufactured using the most advanced insulating materials and are the best choice if size and cost are of concern. It is available in the MultiTap version, designed to respond to the increased need for voltage and stock flexibility. It combines multiple primary voltages with one or more secondary voltages, all in a single transformer.

Table 14.36: Type T Transformers

U.L./CSA/NOM	VA	CE	Catalog No.	\$ Price	H		W		D		Weight (lbs)
					In.	mm	In.	mm	In.	mm	
Primary 240 V x 480 V Secondary 120 V; Primary 230 V x 460 V Secondary 115 V; or Primary 220 V x 440 V Secondary 110 V											
25	25		9070T25D1	111.00	2.58	65.5	3.00	76.2	3.09	78.5	2.5
50	50		9070T50D1	116.00	2.58	65.5	3.00	76.2	3.09	78.5	2.5
75	75		9070T75D1	138.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
100	100		9070T100D1	155.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
150	150		9070T150D1	165.00	3.20	81.3	3.75	95.3	3.59	91.2	5.5
200	200		9070T200D1	204.00	3.20	81.3	3.75	95.3	3.59	91.2	5.5
250	160		9070T250D1	239.00	3.25	82.6	3.75	95.3	5.25	133.4	7.1
300	200		9070T300D1	264.00	3.80	96.5	4.50	114.3	4.70	119.4	8.5
350	250		9070T350D1	281.00	3.80	96.5	4.50	114.3	5.09	129.3	10.5
500	300		9070T500D1	350.00	3.80	6.5	4.50	114.3	5.46	138.7	11.9
750	500		9070T750D1	483.00	4.43	112.5	5.25	133.4	5.66	143.8	11.0
1000	630		9070T1000D1	585.00	4.43	112.5	5.25	133.4	6.04	153.4	20.6
1500	1000		9070T1500D1	837.00	6.16	156.5	7.06	179.3	5.81	147.6	34.0
2000	1500		9070T2000D1	1017.00	6.16	156.5	7.06	179.3	7.04	178.8	47.0
3000	2000		9070T3000D1	1412.00	8.46	214.9	9.00	228.6	6.86	174.2	60.0
5000	3000		9070T5000D1	2373.00	8.46	214.9	9.00	228.6	8.73	221.7	89.0
Primary 208 V Secondary 120 V											
50	50		9070T50D3	135.00	2.58	65.5	3.00	76.2	3.09	78.5	2.5
75	75		9070T75D3	162.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
100	100		9070T100D3	182.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
150	150		9070T150D3	230.00	3.20	81.3	3.75	95.3	3.59	91.2	5.5
200	200		9070T200D3	293.00	3.20	81.3	3.75	95.3	3.59	91.2	5.5
250	160		9070T250D3	363.00	3.25	82.6	3.75	95.3	5.25	133.4	7.1
300	200		9070T300D3	372.00	3.80	96.5	4.50	114.3	4.70	119.4	8.5
350	250		9070T350D3	432.00	3.80	96.5	4.50	114.3	5.09	129.3	10.5
500	300		9070T500D3	471.00	3.80	6.5	4.50	114.3	5.46	138.7	11.9
750	500		9070T750D3	665.00	4.43	112.5	5.25	133.4	5.66	143.8	11.0
1000	630		9070T1000D3	837.00	4.43	112.5	5.25	133.4	6.04	153.4	20.6
1500	1000		9070T1500D3	1170.00	6.16	156.5	7.06	179.3	5.81	147.6	34.0
2000	1500		9070T2000D3	1358.00	6.16	156.5	7.06	179.3	7.04	178.8	47.0
3000	2000		9070T3000D3	1914.00	8.46	214.9	9.00	228.6	6.86	174.2	60.0
5000	3000		9070T5000D3	3015.00	8.46	214.9	9.00	228.6	8.73	221.7	89.0
Primary 600 V Secondary 120/240 V; Primary 575 V Secondary 115/230 V											
50	50		9070T50D37	135.00	2.58	65.5	3.00	76.2	3.09	78.5	2.5
75	75		9070T75D37	162.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
100	100		9070T100D37	182.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
150	150		9070T150D37	230.00	3.20	81.3	3.75	95.3	3.59	91.2	5.5
200	200		9070T200D37	293.00	3.20	81.3	3.75	95.3	3.59	91.2	5.5
250	160		9070T250D37	363.00	3.25	82.6	3.75	95.3	5.25	133.4	7.1
300	200		9070T300D37	372.00	3.80	96.5	4.50	114.3	4.70	119.4	8.5
350	250		9070T350D37	432.00	3.80	96.5	4.50	114.3	5.09	129.3	10.5
500	300		9070T500D37	471.00	3.80	6.5	4.50	114.3	5.46	138.7	11.9
750	500		9070T750D37	665.00	4.43	112.5	5.25	133.4	5.66	143.8	11.0
1000	630		9070T1000D37	837.00	4.43	112.5	5.25	133.4	6.04	153.4	20.6
1500	1000		9070T1500D37	1170.00	6.16	156.5	7.06	179.3	5.81	147.6	34.0
2000	1500		9070T2000D37	1358.00	6.16	156.5	7.06	179.3	7.04	178.8	47.0
3000	2000		9070T3000D37	1914.00	8.46	214.9	9.00	228.6	6.86	174.2	60.0
5000	3000		9070T5000D37	3015.00	8.46	214.9	9.00	228.6	8.73	221.7	89.0
Primary 120 V Secondary 120 V; Primary 115 V Secondary 115 V; or Primary 110 V Secondary 110 V											
50	50		9070T50D24	468.00	2.58	65.5	3.00	76.2	3.09	78.5	2.5
75	75		9070T75D24	486.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
100	100		9070T100D24	489.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
150	150		9070T150D24	522.00	3.20	81.3	3.75	95.3	3.59	91.2	5.5
200	200		9070T200D24	713.00	3.20	81.3	3.75	95.3	3.59	91.2	5.5
250	160		9070T250D24	716.00	3.25	82.6	3.75	95.3	5.25	133.4	7.1
300	200		9070T300D24	722.00	3.80	96.5	4.50	114.3	4.70	119.4	8.5
350	250		9070T350D24	725.00	3.80	96.5	4.50	114.3	5.09	129.3	10.5
500	300		9070T500D24	747.00	3.80	6.5	4.50	114.3	5.46	138.7	11.9
750	500		9070T750D24	840.00	4.43	112.5	5.25	133.4	5.66	143.8	11.0
1000	630		9070T1000D24	891.00	4.43	112.5	5.25	133.4	6.04	153.4	20.6
1500	1000		9070T1500D24	1076.00	6.16	156.5	7.06	179.3	5.81	147.6	34.0
2000	1500		9070T2000D24	1394.00	6.16	156.5	7.06	179.3	7.04	178.8	47.0
3000	2000		9070T3000D24	2195.00	8.46	214.9	9.00	228.6	6.86	174.2	60.0
5000	3000		9070T5000D24	3015.00	8.46	214.9	9.00	228.6	8.73	221.7	89.0

U.L./CSA/NOM	VA	CE	Catalog No.	\$ Price	H		W		D		Weight (lbs)
					In.	mm	In.	mm	In.	mm	
Primary 277 V Secondary 120 V											
50	50		9070T50D4	135.00	2.58	65.5	3.00	76.2	3.09	78.5	2.5
75	75		9070T75D4	162.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
100	100		9070T100D4	182.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
150	150		9070T150D4	230.00	3.20	81.3	3.75	95.3	3.59	91.2	5.5
200	200		9070T200D4	293.00	3.20	81.3	3.75	95.3	3.59	91.2	5.5
250	160		9070T250D4	363.00	3.25	82.6	3.75	95.3	5.25	133.4	7.1
300	200		9070T300D4	372.00	3.80	96.5	4.50	114.3	4.70	119.4	8.5
350	250		9070T350D4	432.00	3.80	96.5	4.50	114.3	5.09	129.3	10.5
500	300		9070T500D4	471.00	3.80	6.5	4.50	114.3	5.46	138.7	11.9
750	500		9070T750D4	665.00	4.43	112.5	5.25	133.4	5.66	143.8	11.0
1000	630		9070T1000D4	837.00	4.43	112.5	5.25	133.4	6.04	153.4	20.6
1500	1000		9070T1500D4	1170.00	6.16	156.5	7.06	179.3	5.81	147.6	34.0
2000	1500		9070T2000D4	1358.00	6.16	156.5	7.06	179.3	7.04	178.8	47.0
3000	2000		9070T3000D4	1914.00	8.46	214.9	9.00	228.6	6.86	174.2	60.0
5000	3000		9070T5000D4	3015.00	8.46	214.9	9.00	228.6	8.73	221.7	89.0
Primary 240 V x 480 V Secondary 120/240 V; Primary 230 V x 460 V Secondary 115/230 V; or Primary 220 V x 440 V Secondary 110/220 V											
50	50		9070T50D31	188.00	2.58	65.5	3.00	76.2	3.09	78.5	2.5
75	75		9070T75D31	197.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
100	100		9070T100D31	207.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
150	150		9070T150D31	273.00	3.20	81.3	3.75	95.3	3.59	91.2	5.5
200	200		9070T200D31	353.00	3.20	81.3	3.75	95.3	3.59	91.2	5.5
250	160		9070T250D31	372.00	3.25	82.6	3.75	95.3	5.25	133.4	7.1
300	200		9070T300D31	435.00	3.80	96.5	4.50	114.3	4.70	119.4	8.5
350	250		9070T350D31	455.00	3.80	96.5	4.50	114.3	5.09	129.3	10.5
500	300		9070T500D31	509.00	3.80	6.5	4.50	114.3	5.46	138.7	11.9
750	500		9070T750D31	710.00	4.43	112.5	5.25	133.4	5.66	143.8	11.0
1000	630		9070T1000D31	837.00	4.43	112.5	5.25	133.4	6.04	153.4	20.6
1500	1000		9070T1500D31	1224.00	6.16	156.5	7.06	179.3	5.81	147.6	34.0
2000	1500		9070T2000D31	1358.00	6.16	156.5	7.06	179.3	7.04	178.8	47.0
3000	2000		9070T3000D31	2229.00	8.46	214.9	9.00	228.6	6.86	174.2	60.0
5000	3000		9070T5000D31	3015.00	8.46	214.9	9.00	228.6	8.73	221.7	89.0
Primary 120 V x 240 V Secondary 120/240 V; Primary 115 V x 230 V Secondary 115/230 V; or Primary 110 V x 220 V Secondary 110/220 V											
50	50		9070T50D55	468.00	2.58	65.5	3.00	76.2	3.09	78.5	2.5
75	75		9070T75D55	486.00	2.89	73.4	3.38	85.8	3.34	84.8	3.8
100	100		9070T100D55	489.00							



Table with columns: VA, UL/CSA/NOM, CE, Catalog No., \$ Price, H (In, mm), W (In, mm), D (In, mm), Weight (lbs). Rows include Primary 240 V x 480 V Secondary 24 V.

Table with columns: VA, UL/CSA/NOM, CE, Catalog No., \$ Price, H (In, mm), W (In, mm), D (In, mm), Weight (lbs). Rows include Primary 120 V Secondary 12/24 V.

Table with columns: VA, UL/CSA/NOM, CE, Catalog No., \$ Price, H (In, mm), W (In, mm), D (In, mm), Weight (lbs). Rows include Primary 120 V x 240 V Secondary 24 V.

Table with columns: VA, UL/CSA/NOM, CE, Catalog No., \$ Price, H (In, mm), W (In, mm), D (In, mm), Weight (lbs). Rows include Primary 208 V Secondary 24 V.

Table with columns: VA, UL/CSA/NOM, CE, Catalog No., \$ Price, H (In, mm), W (In, mm), D (In, mm), Weight (lbs). Rows include Primary 277 V Secondary 24 V.

Table with columns: VA, UL/CSA/NOM, CE, Catalog No., \$ Price, H (In, mm), W (In, mm), D (In, mm), Weight (lbs). Rows include Primary 600 V Secondary 12/24 V.

Table with columns: VA, UL/CSA/NOM, CE, Catalog No., \$ Price, H (In, mm), W (In, mm), D (In, mm), Weight (lbs). Rows include Primary 208/277/380 V Secondary 95/115 V.

Table with columns: VA, UL/CSA/NOM, CE, Catalog No., \$ Price, H (In, mm), W (In, mm), D (In, mm), Weight (lbs). Rows include Primary 208/230/460 V Secondary 115 V.

Table with columns: VA, UL/CSA/NOM, CE, Catalog No., \$ Price, H (In, mm), W (In, mm), D (In, mm), Weight (lbs). Rows include Primary 240/480/600 V Secondary 100/120 V.

Table with columns: VA, UL/CSA/NOM, CE, Catalog No., \$ Price, H (In, mm), W (In, mm), D (In, mm), Weight (lbs). Rows include Primary 380/400/415 V Secondary 115/230 V.

Table with columns: VA, UL/CSA/NOM, CE, Catalog No., \$ Price, H (In, mm), W (In, mm), D (In, mm), Weight (lbs). Rows include Primary 240/416/480/600 V Secondary 99/120/130 V, Primary 230/400/460/575 V Secondary 95/115/125 V, Primary 220/380/440/550 V Secondary 90/110/120 V, Primary 208/360/416/520 V Secondary 85/104/115 V.

Table with columns: VA, UL/CSA/NOM, CE, Catalog No., \$ Price, H (In, mm), W (In, mm), D (In, mm), Weight (lbs). Rows include Primary 208/240/277/380/480 V Secondary 24 V.

TRANSFORMERS
14

Type TF Transformers

Schneider Electric offers Type TF transformers with factory-installed overcurrent protection fuse blocks. The Type TF transformer consists of two primary fuse blocks and one secondary fuse block, a configuration that meets the majority of overcurrent needs by panel builders and machinery OEMs.

Since the fuse blocks are pre-wired and mounted on top of the transformer, the Type TF transformer has the same footprint as the Type T transformer. This design frees up space normally used for separate fuse blocks.

Schneider Electric also offers an extensive fuse block offering for custom applications.

Table 14.37: Type TF Transformers

UL/CSA/NOM	VA	CE	Catalog No.	\$ Price	H		W		D		Weight (lbs)
					In.	mm	In.	mm	In.	mm	
Primary 240 V x 480 V Secondary 120 V; Primary 230 V x 460 V Secondary 115 V; or Primary 220 V x 440 V Secondary 110 V											
25	25		9070TF25D1	110.00	4.00	101.6	3.00	76.2	3.09	78.5	2.5
50	50		9070TF50D1	165.00	4.00	101.6	3.00	76.2	3.84	78.5	2.5
75	75		9070TF75D1	185.00	4.25	107.9	3.38	85.8	3.34	84.8	3.8
100	100		9070TF100D1	201.00	4.25	107.9	3.38	85.8	3.34	84.8	3.8
150	150		9070TF150D1	213.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
200	200		9070TF200D1	255.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
250	160		9070TF250D1	287.00	4.55	115.6	3.75	95.3	5.25	133.4	7.1
300	200		9070TF300D1	312.00	5.10	129.6	4.50	114.3	4.70	119.4	8.5
350	250		9070TF350D1	330.00	5.10	129.6	4.50	114.3	5.09	129.3	10.5
500	300		9070TF500D1	395.00	5.10	129.6	4.50	114.3	5.46	138.7	11.9
750	500		9070TF750D1	531.00	5.73	145.6	5.25	133.4	5.66	143.8	11.0
1000	630		9070TF1000D1	639.00	5.73	145.6	5.25	133.4	6.04	153.4	20.6
1500	1000		9070TF1500D1	884.00	7.46	189.5	7.06	179.3	5.81	147.6	34.0
2000	1500		9070TF2000D1	1065.00	7.46	189.5	7.06	179.3	7.04	178.8	47.0
Primary 208 V Secondary 120 V											
50	50		9070TF50D3	185.00	4.00	101.6	3.00	76.2	3.84	78.5	2.5
75	75		9070TF75D3	230.00	4.25	107.9	3.38	85.8	3.34	84.8	3.8
100	100		9070TF100D3	276.00	4.25	107.9	3.38	85.8	3.34	84.8	3.8
150	150		9070TF150D3	287.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
200	200		9070TF200D3	293.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
250	160		9070TF250D3	381.00	4.55	115.6	3.75	95.3	5.25	133.4	7.1
300	200		9070TF300D3	426.00	5.10	129.6	4.50	114.3	4.70	119.4	8.5
350	250		9070TF350D3	522.00	5.10	129.6	4.50	114.3	5.09	129.3	10.5
500	300		9070TF500D3	696.00	5.10	129.6	4.50	114.3	5.46	138.7	11.9
750	500		9070TF750D3	807.00	5.73	145.6	5.25	133.4	5.66	143.8	11.0
1000	630		9070TF1000D3	906.00	5.73	145.6	5.25	133.4	6.04	153.4	20.6
1500	1000		9070TF1500D3	1209.00	7.46	189.5	7.06	179.3	5.81	147.6	34.0
2000	1500		9070TF2000D3	1352.00	7.46	189.5	7.06	179.3	7.04	178.8	47.0
Primary 240 V x 480 V Secondary 120/240 V; Primary 230 V x 460 V Secondary 115/230 V; or Primary 220 V x 440 V Secondary 110/220 V											
50	50		9070TF50D31	548.00	4.00	101.6	3.00	76.2	3.84	78.5	2.5
75	75		9070TF75D31	560.00	4.25	107.9	3.38	85.8	3.34	84.8	3.8
100	100		9070TF100D31	563.00	4.25	107.9	3.38	85.8	3.34	84.8	3.8
150	150		9070TF150D31	581.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
200	200		9070TF200D31	779.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
250	160		9070TF250D31	792.00	4.55	115.6	3.75	95.3	5.25	133.4	7.1
300	200		9070TF300D31	795.00	5.10	129.6	4.50	114.3	4.70	119.4	8.5
350	250		9070TF350D31	804.00	5.10	129.6	4.50	114.3	5.09	129.3	10.5
500	300		9070TF500D31	821.00	5.10	129.6	4.50	114.3	5.46	138.7	11.9
750	500		9070TF750D31	875.00	5.73	145.6	5.25	133.4	5.66	143.8	11.0
1000	630		9070TF1000D31	951.00	5.73	145.6	5.25	133.4	6.04	153.4	20.6
1500	1000		9070TF1500D31	1320.00	7.46	189.5	7.06	179.3	5.81	147.6	34.0
2000	1500		9070TF2000D31	1409.00	7.46	189.5	7.06	179.3	7.04	178.8	47.0
Primary 208/277/380 V Secondary 95/115 V											
50	50		9070TF50D18	548.00	4.00	101.6	3.00	76.2	3.84	78.5	4.0
75	75		9070TF75D18	554.00	4.25	107.9	3.38	85.8	3.34	84.8	5.5
100	100		9070TF100D18	588.00	4.25	107.9	3.38	85.8	3.34	84.8	5.5
150	150		9070TF150D18	624.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
200	200		9070TF200D18	833.00	4.55	115.6	3.75	95.3	3.59	91.2	8.5
250	160		9070TF250D18	846.00	4.55	115.6	3.75	95.3	5.25	133.4	10.5
300	200		9070TF300D18	855.00	5.10	129.6	4.50	114.3	4.70	119.4	10.5
350	250		9070TF350D18	957.00	5.10	129.6	4.50	114.3	5.09	129.3	11.9
500	300		9070TF500D18	1380.00	5.10	129.6	4.50	114.3	5.46	138.7	11.0
750	500		9070TF750D18	1580.00	5.73	145.6	5.25	133.4	5.66	143.8	20.6
1000	630		9070TF1000D18	1988.00	5.73	145.6	5.25	133.4	6.04	153.4	34.0

UL/CSA/NOM	VA	CE	Catalog No.	\$ Price	H		W		D		Weight (lbs)
					In.	mm	In.	mm	In.	mm	
Primary 208/230/460 V Secondary 115 V											
50	50		9070TF50D20	270.00	4.25	107.9	3.38	87.1	3.34	106.4	4.0
75	75		9070TF75D20	293.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
100	100		9070TF100D20	360.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
150	150		9070TF150D20	443.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
200	200		9070TF200D20	497.00	5.10	129.6	4.50	114.3	4.70	119.4	8.5
250	160		9070TF250D20	548.00	5.10	129.6	4.50	114.3	5.09	129.3	10.5
300	200		9070TF300D20	563.00	5.10	129.6	4.50	114.3	5.09	129.3	10.5
350	250		9070TF350D20	585.00	5.10	129.6	4.50	114.3	5.46	138.7	11.9
500	300		9070TF500D20	608.00	5.73	145.6	5.25	133.4	5.66	143.8	11.0
750	500		9070TF750D20	951.00	5.73	145.6	5.25	133.4	6.04	153.4	20.6
1000	630		9070TF1000D20	1320.00	7.46	189.5	7.06	179.3	5.81	147.6	34.0
Primary 230/460/575 V Secondary 95/115 V											
50	50		9070TF50D32	600.00	4.25	107.9	3.38	87.1	3.34	106.4	4.0
75	75		9070TF75D32	617.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
100	100		9070TF100D32	620.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
150	150		9070TF150D32	624.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
200	200		9070TF200D32	833.00	5.10	129.6	4.50	114.3	4.70	119.4	8.5
250	160		9070TF250D32	846.00	5.10	129.6	4.50	114.3	5.09	129.3	10.5
300	200		9070TF300D32	866.00	5.10	129.6	4.50	114.3	5.09	129.3	10.5
350	250		9070TF350D32	866.00	5.10	129.6	4.50	114.3	5.46	138.7	11.9
500	300		9070TF500D32	869.00	5.73	145.6	5.25	133.4	5.66	143.8	11.0
750	500		9070TF750D32	1380.00	5.73	145.6	5.25	133.4	6.04	153.4	20.6
1000	630		9070TF1000D32	1380.00	7.46	189.5	7.06	179.3	5.81	147.6	34.0
Primary 600 V Secondary 120/240 V; Primary 575 V Secondary 115/230 V											
50	50		9070TF50D37	195.00	4.00	101.6	3.00	76.2	3.09	78.5	2.5
75	75		9070TF75D37	384.00	4.25	107.9	3.38	85.8	3.34	84.8	3.8
100	100		9070TF100D37	394.00	4.25	107.9	3.38	85.8	3.34	84.8	3.8
150	150		9070TF150D37	452.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
200	200		9070TF200D37	498.00	4.55	115.6	3.75	95.3	3.59	91.2	5.5
250	160		9070TF250D37	564.00	4.55	115.6	3.75	95.3	5.25	133.4	7.1
300	200		9070TF300D37	570.00	5.10	129.6	4.50	114.3	4.70	119.4	8.5
350	250		9070TF350D37	570.00	5.10	129.6	4.50	114.3	5.09	129.3	10.5
500	300		9070TF500D37	638.00	5.10	129.6	4.50	114.3	5.46	138.7	11.9
750	500		9070TF750D37	668.00	5.73	145.6	5.25	133.4	5.66	143.8	11.0
1000	630		9070TF1000D37	920.00	5.73	145.6	5.25	133.4	6.04	153.4	20.6
Primary 240/416/480/600 V Secondary 99/120/130 V; Primary 230/400/460/575 V Secondary 95/115/125 V Primary 220/380/440/550 V Secondary 90/110/120 V; Primary 208/360/416/520 V Secondary 85/104/115 V											
50	50		9070TF50D50	274.00							

Accessories

The Type T control transformers offer multiple field installable accessories:

Table 14.38: Fingersafe® Covers (Not Supplied with Unit)

Type	Type Accessory Key ▲			Description	\$ Price Each	Order Qty.	Order \$ Price
	I	II	III, IV				
FSC1	T25-T200	T25-T150	—	2 covers per kit	21.00	10	210.00
FSC2	T250-T5000	T250-T5000	—	2 covers per kit	30.00	10	300.00
FSC23	—	—	T25-T5000	2 covers per kit	30.00	10	300.00

▲ Kits must be ordered separately. Also supplied in bulk packages of 100 individual covers. Add "B" to Type number (available only on FSC1B and FSC2B).

Table 14.39: Separate NEMA 1 Enclosures for Transformers

Class 9991 Type	For Use With
UE7	EO1, EO17, T50
LG1	EO2, EO3, EO4, EO15, EO16, EO18, EO19, T75, T100, T150, T200, T250, T300, T350, T500
SDG4	EO51, EO61, T750, T1000, EO71

NOTE: User must drill mounting holes. See pages 16-106 and 16-107 for dimensions.

Table 14.40: Jumper Kits

Catalog No.	Type Accessory Key			Description	\$ Price Each	Order Qty.	Order \$ Price
	I	II	III, IV				
3003302753	T25-T200	T25-T150	—	Two jumpers per bag	8.00	50	400.00
3003302754	T250-T5000	T200-T3000	T25-T3000	Minimum order of 50 kits	5.00	50	250.00

NOTE: Jumpers are supplied with voltage codes that require them. If additional kits are required, order per above chart.

Table 14.41: Fuse Pullers (For Use on TF and FB Accessory)

Catalog No.	\$ Price Each	Order Qty.	Order \$ Price
9070FP1	33.00	10	330.00

Field Installed Fuse Options

Table 14.42: Primary and Secondary Fusing

Type	Type Accessory Key			Description	\$ Price Each	Order Qty.	Order \$ Price
	I	II	III, IV				
FB3A	25-200	25-150	—	Three pole fuse block for primary and secondary fusing, accommodates 1-1/2 x 13/32 inch midget fuse (2 rejection and 1 non-rejection)	87.00	1	87.00
FB3B	250-2000	200-2000	25-2000	Three pole fuse block for primary and secondary fusing, accommodates 1-1/2 x 13/32 inch midget fuse (2 rejection and 1 non-rejection)	87.00	1	87.00

Table 14.43: Primary Fusing

Type	Type Accessory Key			Description	\$ Price Each	Order Qty.	Order \$ Price
	I	II	III, IV				
FB2A	25-200	25-150	—	Two pole fuse block for primary fusing, accommodates 1-1/2 x 13/32 inch midget fuse (2 rejection)	75.00	1	75.00
FB2B	250-2000	200-2000	25-2000	Two pole fuse block for primary fusing, accommodates 1-1/2 x 13/32 inch midget fuse (2 rejection)	75.00	1	75.00

Table 14.44: Field-Installable Secondary Fuse Clips

Type	Type Accessory Key ◆			Description	\$ Price Each	Order Qty.	Order \$ Price
	I	II	III, IV				
SF25A	25-200	25-150	—	Secondary fuse block accommodates 1-1/4 x 1/4 inch fuse	21.00	10	210.00
SF25B	250-2000	200-2000	25-2000	Secondary fuse block accommodates 1-1/4 x 1/4 inch fuse	21.00	10	210.00
SF41A ■	25-200	25-150	—	Secondary fuse clip accommodates 1-1/2 x 13/32 inch midget fuse	18.00	10	180.00
SF41B ■	250-2000	200-2000	25-2000	Secondary fuse clip accommodates 1-1/2 x 13/32 inch midget fuse	18.00	10	180.00
FB1A	25-200	25-150	—	One pole fuse block for secondary fusing, accommodates 1-1/2 x 13/32 inch midget fuse (1 non-rejection)	53.00	1	53.00
FB1B	250-2000	200-2000	25-2000	One pole fuse block for secondary fusing, accommodates 1-1/2 x 13/32 inch midget fuse (1 non-rejection)	53.00	1	53.00

■ SF41 can be installed on the following voltage codes: D1, D5, D24, D3, D4, D51, D2, D23, D14, D25, D20, D95, D19, D22, D36.

◆ I = voltage codes D1, D2, D3, D4, D5, D12, D13, D14, D15, D23, D24, D25, D31, D32, D33, D36, D5
II = voltage codes D18, D20
III, IV = voltage codes D19, D50

Selection Guide

1. Determine inrush and sealed VA of each coil in the control circuit and VA of all other components.
2. Total all sealed VA of all operating coils and other loads VA (determines minimal VA size required for the circuit).
3. Total the inrush VA of all coils that are starting at the same time and all loads and coils that are running (using the regulation chart to give possible units to be used).
4. Take VA size from step two, go to standard VA size in chart. Make sure inrush VA from chart is greater than total VA from step three. (If not, go to next larger VA size and repeat.)

If your supply voltage is stable and fluctuates less than 5%, Schneider Electric recommends you use the 90% secondary voltage column. If your supply voltage is not stable and fluctuates more than 10% we recommend you use the 95% secondary voltage column. We recommend that you never use the 85% secondary voltage column since magnetic devices lose life expectancy if they are continuously started at 85% of rated voltage.

Table 14.45: Regulation Chart for Type T

VA	Inrush VA @ 20% power factor			Inrush VA @ 40% power factor		
	95% Secondary Voltage	90% Secondary Voltage	85% Secondary Voltage	95% Secondary Voltage	90% Secondary Voltage	85% Secondary Voltage
	50	193	266	339	151	215
75	271	396	20	210	318	430
100	339	499	659	266	404	549
150	666	893	1120	529	731	942
200	588	815	1041	459	659	866
250	1416	1910	2388	1057	1494	1936
300	1634	2184	2709	1194	1681	2169
350	1894	2592	3261	1392	2005	2621
500	3197	4104	4981	2374	3195	4019
750	3770	5515	7231	2887	4391	5945
1000	6587	9079	11430	4706	6886	9051
1500	19324	23983	28607	15066	19361	23756
2000	31384	38777	6161	24794	31630	38667
3000	26539	39934	52713	19355	30721	42216
5000	53111	85265	116277	39368	66309	93882

Transformer Disconnects for NEMA 1 and NEMA 12 Enclosures



Transformer Disconnects available in NEMA 1 Standard, NEMA 12 Standard, and NEMA 1 Mini

Square D® brand transformer disconnects mount inside or outside a control system enclosure and provide power to auxiliary, single-phase loads when the main three-phase disconnect is either ON or OFF. The transformer disconnect is normally wired to the line side of the control panel's main disconnect.

This convenient source of 120 V power can be used for auxiliary or isolated loads, such as panel lighting, portable power tools, and programmable controller equipment.

Units consist of copper-wound transformers, a disconnect switch, and primary and secondary fuse blocks. All blocks are installed in NEMA 1 or NEMA 12 enclosures.

Transformer disconnects meet UL standards and are UL Listed. Use Square D brand Type TF industrial control transformers and Square D brand disconnect switches.

Multiple enclosure options include:

- Standard NEMA 1
- Mini NEMA 1
- Compact NEMA 1
- NEMA 12

Table 14.46: Transformer Disconnects

VA	Catalog No.	\$ Price	Enclosure	H		W		D		Weight (lbs)
				In.	mm	In.	mm	In.	mm	
NEMA 1 Enclosure, Primary 240 x 480 Secondary 120 (Compact Design)										
100	9070MN100G0D1	1338.00	G0	7.00	178	11.30	287	7.81	198	16
250	9070MN250G0D1	1488.00	G0	7.00	178	11.30	287	7.81	198	21
500	9070MN500G0D1	1640.00	G0	7.00	178	11.30	287	7.81	198	24
750	9070SK750G3D1	1721.00	G3	13.40	340	14.80	376	10.21	259	47
1000	9070SK1000G3D1	2259.00	G3	13.40	340	14.80	376	10.21	259	51
1500	9070SK1500G3D1	3351.00	G3	13.40	340	14.80	376	10.21	259	65
2000	9070SK2000G3D1	2838.00	G3	13.40	340	14.80	376	10.21	259	71
3000	9070SK3000G3D1	3797.00	G3	13.40	340	14.80	376	10.21	259	85
NEMA 1 Enclosure, Primary 240 x 480 Secondary 120										
250	9070SK250G1D1	1353.00	G1	9.40	239	11.80	300	8.96	228	26
500	9070SK500G1D1	1488.00	G1	9.40	239	11.80	300	8.96	228	28
750	9070SK750G1D1	1674.00	G1	9.40	239	11.80	300	8.96	228	33
1000	9070SK1000G1D1	2199.00	G1	9.40	239	11.80	300	8.96	228	37
1500	9070SK1500G2D1	3255.00	G2	13.40	340	14.80	376	12.21	310	67
2000	9070SK2000G2D1	3699.00	G2	13.40	340	14.80	376	12.21	310	73
3000	9070SK3000G2D1	4955.00	G2	13.40	340	14.80	376	12.21	310	87
NEMA 1 Enclosure, Primary 480 Secondary 120										
5000	9070SK5000G4D9	7748.00	G4	16.90	429	18.20	462	14.50	368	125
NEMA 12 Enclosure, Primary 240 x 480 Secondary 120										
250	9070SK250A2D1	3281.00	A2	16.50	419	14.50	368	13.50	343	46
500	9070SK500A2D1	3417.00	A2	16.50	419	14.50	368	13.50	343	49
750	9070SK750A2D1	3621.00	A2	16.50	419	14.50	368	13.50	343	53
1000	9070SK1000A2D1	3723.00	A2	16.50	419	14.50	368	13.50	343	58
1500	9070SK1500A2D1	4095.00	A2	16.50	419	14.50	368	13.50	343	79
2000	9070SK2000A2D1	4364.00	A2	16.50	419	14.50	368	13.50	343	85
3000	9070SK3000A2D1	5448.00	A2	16.50	419	14.50	368	13.50	343	99
NEMA 12 Enclosure, Primary 240 x 480 Secondary 120, Flange Switch										
250	9070SK250A3D1	3281.00	A3	15.50	394	17.00	432	10.00	254	48
500	9070SK500A3D1	3417.00	A3	15.50	394	17.00	432	10.00	254	53
750	9070SK750A3D1	3621.00	A3	15.50	394	17.00	432	10.00	254	57
1000	9070SK1000A3D1	3723.00	A3	15.50	394	17.00	432	10.00	254	61
1500	9070SK1500A3D1	4095.00	A3	15.50	394	17.00	432	10.00	254	75
2000	9070SK2000A3D1	4364.00	A3	15.50	394	17.00	432	10.00	254	86

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Table 14.47: Transformer Disconnects with Door-Mounted Duplex Receptacles

VA	Catalog No.	\$ Price	Enclosure	H		W		D		Weight (lbs)
				In.	mm	In.	mm	In.	mm	
NEMA 1 Enclosure, Primary 240 x 480 Secondary 120, Duplex Receptacle, Door-Mounted (Compact Design)										
100	9070MN100G0D1G13	1659.00	G0	7.00	178	11.30	287	7.81	198	16
250	9070MN250G0D1G13	1808.00	G0	7.00	178	11.30	287	7.81	198	21
500	9070MN500G0D1G13	1961.00	G0	7.00	178	11.30	287	7.81	198	24
750	9070SK750G3D1G13	2007.00	G3	13.40	340	14.80	376	10.21	259	47
1000	9070SK1000G3D1G13	2546.00	G3	13.40	340	14.80	376	10.21	259	51
1500	9070SK1500G3D1G13	3638.00	G3	13.40	340	14.80	376	10.21	259	65
2000	9070SK2000G3D1G13	4088.00	G3	13.40	340	14.80	376	10.21	259	71
3000	9070SK3000G3D1G13	5562.00	G3	13.40	340	14.80	376	10.21	259	85
NEMA 1 Enclosure, Primary 240 x 480 Secondary 120, Duplex Receptacle, Door-Mounted										
250	9070SK250G1D1G13	1674.00	G1	9.40	239	11.80	300	8.96	228	26
500	9070SK500G1D1G13	1808.00	G1	9.40	239	11.80	300	8.96	228	28
750	9070SK750G1D1G13	1994.00	G1	9.40	239	11.80	300	8.96	228	33
1000	9070SK1000G1D1G13	2520.00	G1	9.40	239	11.80	300	8.96	228	37
1500	9070SK1500G2D1G13	3576.00	G2	13.40	340	14.80	376	12.21	310	67
2000	9070SK2000G2D1G13	4020.00	G2	13.40	340	14.80	376	12.21	310	73
3000	9070SK3000G2D1G13	5274.00	G2	13.40	340	14.80	376	12.21	310	87
NEMA 1 Enclosure, Primary 480 Secondary 120, Duplex Receptacle, Door-Mounted										
5000	9070SK5000G4D9	7748.00	G4	16.9	429	18.2	462	14.5	368	125
NEMA 12 Enclosure, Primary 240 x 480 Secondary 120, Duplex Receptacle, Door-Mounted										
250	9070SK250A2D1G13	3216.00	A2	16.50	419	14.50	368	13.50	343	46
500	9070SK500A2D1G13	3738.00	A2	16.50	419	14.50	368	13.50	343	49
750	9070SK750A2D1G13	3941.00	A2	16.50	419	14.50	368	13.50	343	53
1000	9070SK1000A2D1G13	4076.00	A2	16.50	419	14.50	368	13.50	343	58
1500	9070SK1500A2D1G13	3942.00	A2	16.50	419	14.50	368	13.50	343	79
2000	9070SK2000A2D1G13	4685.00	A2	16.50	419	14.50	368	13.50	343	85
3000	9070SK3000A2D1G13	5769.00	A2	16.50	419	14.50	368	13.50	343	99
NEMA 12 Enclosure, Primary 240 x 480 Secondary 120, Flange Switch, Duplex Receptacle, Door-Mounted										
100	9070MN100G0D1G13	1659.00	G0	7.00	178	11.30	287	7.81	198	16
250	9070SK250A3D1G13	3216.00	A3	15.50	394	17.00	432	10.00	254	48
500	9070SK500A3D1G13	3338.00	A3	15.50	394	17.00	432	10.00	254	53
750	9070SK750A3D1G13	3519.00	A3	15.50	394	17.00	432	10.00	254	57
1000	9070SK1000A3D1G13	4323.00	A3	15.50	394	17.00	432	10.00	254	61
1500	9070SK1500A3D1G13	3942.00	A3	15.50	394	17.00	432	10.00	254	75
2000	9070SK2000A3D1G13	4184.00	A3	15.50	394	17.00	432	10.00	254	86

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Table 14.48: Factory Modification Options for Transformer Disconnects

Description	FORM	Available On Enclosure
55 °C rise transformer	C	G1, G2, A2
Electrostatically-shielded transformer	E23	G0, G1, G2, G3, G4, A2, A3
Additional 1-1/2-inch x 13/32-inch secondary fuse block	F11	G0, G1, G2, G3, G4, A2, A3
Primary fuse block—5-inch x 13/16-inch	F30	G1, G2, G4, A2
Duplex receptacle, door-mounted	G13	G0, G1, G2, G3, G4, A2, A3
Class A, GF1, duplex receptacle, door-mounted	G14	G0, G1, G2, G3, G4, A2, A3
Two duplex receptacles, door-mounted	G16	G1, G2, G3, G4, A2
"ON" red warning pilot light	P1	G1, G2, G3, G4, A2, A3
"ON" red warning pilot light, with strain relief	P2	G1, G2, G3, G4, A2

Contact your local Schneider Electric field sales office for other available features.

Voltage and Current Transformers

- Schneider Electric offers voltage, current, and bushing instrument transformers.
- Square D® brand 600 volt rated voltage and current transformers are field proven in well over a million installations, where accuracy and longer, more dependable operation are essential.
- Typical applications for instrument transformers are: indoor, switchgear assemblies, motor controllers, over power transformer bushings, over circuit breaker bushings, metering, relaying, and current sensing.

Voltage Transformers

Schneider Electric offers three models of voltage transformers, each suited for a particular application.

- Model 450R is designed for applications requiring accurate voltage measurement within the 0.3% accuracy class. Model 450R is ideal for switchboard use with 1% instrumentation
- Model 460 is designed for voltage indication where accuracy is less critical or where burden requirements are low. Model 460R is ideally suited for use with transducers and panelboards and other monitoring applications.
- Model 470 is designed for extremely accurate voltage measurement where a very low burden is to be used. Examples of such applications include the input to PLC modules and other electronic devices with a high input impedance.

Current Transformers

Current transformers are low cost, compact units that offer good electrical performance in a general purpose transformer.

- They are very easy to mount on the conductors.
- All current transformers feature permanent polarity marks molded into the case.

Type of CT available:

- General purpose
- Torroidal (single ratio)
- Rectangle window (single ratio)
- Split core
- Bushing (single ratio) (multi-ratio)

Part number listing is available in the Supplemental Digest.

