

Industrial Control Transformers

Class 9070



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For the most up-to-date information

The Type T units are designed for the global market and are the best choice when size and cost are of concern. This is our most popular and complete offering of industrial control transformers, and includes the following features:

- 50/60 Hz rated
Customer installed accessories (finger-safe covers, fuse blocks, fuse clips)
- Type T transformers are designed with the various temperature classes:
50–150 VA with a 55° C temperature rise, 105° C insulation
200–350 VA with a 80° C temperature rise, 130° C insulation
500–5000 VA with a 115° C temperature rise, 180° C insulation

Square D manufactures a wide variety of voltage combinations for control transformers. The voltage combinations are expressed as "Voltage Codes" and these codes are embedded within the catalog number of the transformer. Standard codes are listed, if the voltage combination you require is not listed, call your Square D Distributor for assistance.

Key to Price Column Headings

Voltage Code
Primary Voltages
Secondary Voltages
Key for Dimensions & Accessory

Type T

| UL/CSA/ NOM VA | CE VA | Type | D1 240 x 480 120 I | D31 240 x 480 120/240 I | D5 600 120 I | D37 600 120/240 I | D24 120 120 I | D55 120 x 240 120/240 I | D3 208 120 I | D4 277 120 I | D51 208/277 120 I | D60 277 120/240 I |
|----------------------|-------|-------|-----------------------------|----------------------------------|-----------------------|----------------------------|------------------------|----------------------------------|-----------------------|-----------------------|----------------------------|----------------------------|
| 25 | 25 | T25 | \$ 34.70 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| 50 | 50 | T50 | \$ 36.50 | \$ 59.00 | \$ 42.40 | \$147.00 | \$147.00 | \$147.00 | \$ 42.40 | \$ 42.40 | \$147.00 | \$147.00 |
| 75 | 75 | T75 | 43.30 | 62.00 | 51.00 | 153.00 | 153.00 | 153.00 | 51.00 | 51.00 | 153.00 | 153.00 |
| 100 | 100 | T100 | 48.50 | 65.00 | 57.00 | 154.00 | 154.00 | 154.00 | 57.00 | 57.00 | 154.00 | 154.00 |
| 150 | 150 | T150 | 52.00 | 86.00 | 72.00 | 164.00 | 164.00 | 164.00 | 72.00 | 72.00 | 164.00 | 164.00 |
| 200 | 200 | T200 | 64.00 | 111.00 | 92.00 | 224.00 | 224.00 | 224.00 | 92.00 | 92.00 | 224.00 | 224.00 |
| 250 | 160 | T250 | 75.00 | 117.00 | 114.00 | 225.00 | 225.00 | 225.00 | 114.00 | 114.00 | 225.00 | 225.00 |
| 300 | 200 | T300 | 83.00 | 137.00 | 117.00 | 227.00 | 227.00 | 227.00 | 117.00 | 117.00 | 227.00 | 227.00 |
| 350 | 250 | T350 | 88.00 | 143.00 | 136.00 | 228.00 | 228.00 | 228.00 | 136.00 | 136.00 | 228.00 | 228.00 |
| 500 | 300 | T500 | 110.00 | 160.00 | 148.00 | 235.00 | 235.00 | 235.00 | 148.00 | 148.00 | 235.00 | 235.00 |
| 750 | 500 | T750 | 152.00 | 223.00 | 209.00 | 264.00 | 264.00 | 264.00 | 209.00 | 209.00 | 264.00 | 264.00 |
| 1000 | 630 | T1000 | 184.00 | 263.00 | 263.00 | 280.00 | 280.00 | 280.00 | 263.00 | 263.00 | 280.00 | 280.00 |
| 1500 | 1000 | T1500 | 263.00 | 385.00 | 368.00 | 404.00 | 404.00 | 404.00 | 368.00 | 368.00 | 404.00 | 404.00 |
| 2000 | 1500 | T2000 | 320.00 | 427.00 | 427.00 | 438.00 | 438.00 | 438.00 | 427.00 | 427.00 | 438.00 | 438.00 |
| 3000 | 2000 | T3000 | 444.00 | 701.00 | 602.00 | 749.00 | 749.00 | 749.00 | 602.00 | 602.00 | 749.00 | 749.00 |
| 5000 | 3000 | T5000 | 746.00 | 948.00 | 948.00 | 948.00 | 948.00 | 948.00 | 948.00 | 948.00 | 948.00 | 948.00 |

Type T

| UL/CSA/ NOM VA | CE VA | Type | D2 240 x 480 24 I | D59 240 x 480 12/24 I | D13 120 12/24 I | D23 120/240 24 I | D54 120/240 12/24 I | D14 208 24 I | D25 277 24 I | D36 600 12/24 I |
|----------------------|-------|--------|----------------------------|--------------------------------|--------------------------|---------------------------|------------------------------|-----------------------|-----------------------|--------------------------|
| 50 | 50 | T50 | \$ 42.40 | \$147.00 | \$ 42.40 | \$ 42.40 | \$147.00 | \$ 42.40 | \$147.00 | \$147.00 |
| 75 | 75 | T75 | 51.00 | 153.00 | 51.00 | 51.00 | 153.00 | 51.00 | 153.00 | 153.00 |
| 100 | 100 | T100 | 57.00 | 154.00 | 57.00 | 57.00 | 154.00 | 57.00 | 154.00 | 154.00 |
| 150 | 150 | T150 | 72.00 | 164.00 | 72.00 | 72.00 | 164.00 | 72.00 | 164.00 | 164.00 |
| 200 | 200 | T200 | 92.00 | 224.00 | 92.00 | 92.00 | 224.00 | 92.00 | 224.00 | 224.00 |
| 250 | 160 | T250 | 114.00 | 225.00 | 114.00 | 114.00 | 225.00 | 114.00 | 225.00 | 225.00 |
| 300 | 200 | T300 | 117.00 | 227.00 | 117.00 | 117.00 | 227.00 | 117.00 | 227.00 | 227.00 |
| 350 | 250 | T350 | 136.00 | 228.00 | 136.00 | 136.00 | 228.00 | 136.00 | 228.00 | 228.00 |
| 500 | 300 | T500 | 148.00 | 235.00 | 148.00 | 148.00 | 235.00 | 148.00 | 235.00 | 235.00 |
| 750 | 500 | T750▲ | 209.00 | 264.00 | 209.00 | 209.00 | 264.00 | 209.00 | 264.00 | 264.00 |
| 1000 | 630 | T1000▲ | 263.00 | 280.00 | 263.00 | 263.00 | 280.00 | 263.00 | 280.00 | 280.00 |

Type T

| UL/CSA/NOM VA | CE VA | Type | D15 240 x 480 24/120 I | D12 480 240 I | D22 480 277 I | D62 600 240 I |
|------------------|-------|-------|---------------------------------|------------------------|------------------------|------------------------|
| 50 | 50 | T50 | \$ 42.40 | \$ 42.40 | \$147.00 | \$147.00 |
| 75 | 75 | T75 | 51.00 | 153.00 | 153.00 | 153.00 |
| 100 | 100 | T100 | 65.00 | 57.00 | 154.00 | 154.00 |
| 150 | 150 | T150 | 72.00 | 72.00 | 164.00 | 164.00 |
| 200 | 200 | T200 | 92.00 | 92.00 | 224.00 | 224.00 |
| 250 | 160 | T250 | 117.00 | 114.00 | 225.00 | 225.00 |
| 300 | 200 | T300 | 137.00 | 117.00 | 227.00 | 227.00 |
| 350 | 250 | T350 | 143.00 | 136.00 | 228.00 | 228.00 |
| 500 | 300 | T500 | 160.00 | 148.00 | 235.00 | 235.00 |
| 750 | 500 | T750 | 223.00 | 209.00 | 264.00 | 264.00 |
| 1000 | 630 | T1000 | 263.00 | 263.00 | 280.00 | 280.00 |
| 1500 | 1000 | T1500 | 385.00 | 368.00 | 404.00 | 404.00 |
| 2000 | 1500 | T2000 | 427.00 | 427.00 | 438.00 | 438.00 |
| 3000 | 2000 | T3000 | 701.00 | 602.00 | 749.00 | 749.00 |
| 5000 | 3000 | T5000 | 948.00 | 948.00 | 948.00 | 948.00 |

| Listing | File | Type |
|---------|--|-------------|
| UL | E61239 | T25–T1000 |
| CSA | LR37055, Guide 184-N-90, C22.2 | T25–T1000 |
| cULus | E61239 | T1500–T5000 |
| EN (CE) | 947923, EN-61558-1 (TUV ref: 00941-RAG/sg E9371495E01) | T25–T200 |
| | 9579078, EN-61558-1 (TUV ref: 00941-RAG/sg E9471921.02E01) | T250–T1000 |
| | 9579078, EN-61558-1 (TUV ref: 00941-RAG/sg E9471921.02E01) | T1500–T5000 |

▲ See Control Transformer Catalog: 9070CT9901 for dimensions different than Digest.

As part of the Type T designs are MultiTap units having a variety of primary voltages on just one transformer. Our Universal Control Transformer will provide 120 V, or near 120, power from all common primary voltages: 208 to 600 V, and is listed as voltage code D50.

Key to Price Column Headings

Voltage Code
Primary Voltages
Secondary Voltages
Key for Dimensions & Accessory

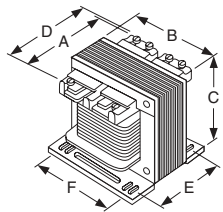


Figure 1

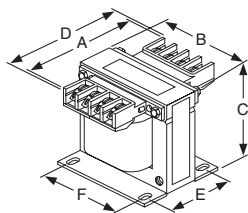


Figure 2

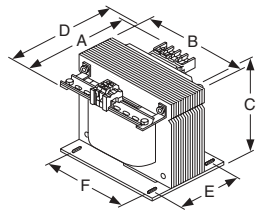


Figure 3

Type T MultiTap™

| UL/CSA/NOM VA | CE VA | Type | D18 208/277/380 95/115 II | D20 208/230/460 115 II | D95 208/240/480 120 II | D32 230/460/575 95/115 II | D33 380/400/415 115/230 I | D50 240/416/480/600 99/120/130 IV | D19 208/240/277/380/480 24 III | D52 380/400/415 12/24 I |
|---------------|-------|-------|------------------------------------|---------------------------------|---------------------------------|------------------------------------|------------------------------------|--|---|----------------------------------|
| 50 | 50 | T50 | \$ 59. | \$ 59. | \$162. | \$ 59. | \$ 59. | \$ 99. | \$ 59. | \$162. |
| 75 | 75 | T75 | 62. | 62. | 164. | 62. | 62. | 107. | 62. | 164. |
| 100 | 100 | T100 | 65. | 65. | 174. | 65. | 65. | 110. | 65. | 174. |
| 150 | 150 | T150 | 86. | 86. | 243. | 86. | 86. | 115. | 86. | 243. |
| 200 | 200 | T200 | 111. | 111. | 242. | 111. | 111. | 131. | 111. | 242. |
| 250 | 160 | T250 | 117. | 117. | 245. | 117. | 117. | 143. | 117. | 245. |
| 300 | 200 | T300 | 137. | 137. | 256. | 137. | 137. | 156. | 137. | 256. |
| 350 | 250 | T350 | 143. | 143. | 297. | 143. | 143. | 161. | 143. | 297. |
| 500 | 300 | T500 | 160. | 160. | 300. | 160. | 160. | 206. | 160. | 300. |
| 750 | 500 | T750 | 223. | 223. | 331. | 223. | 223. | 239. | 223.▲ | 331.▲ |
| 1000 | 630 | T1000 | 263. | 263. | 423. | 263. | 263. | 313. | 263.▲ | 423.▲ |

▲ See Control Transformer Catalog: 9070CT9901 for Dimensions different than Digest.

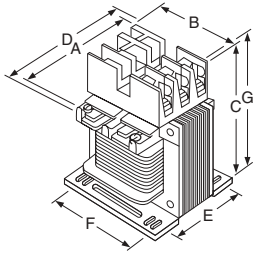
| Type Dimension Key | | | | A | | B | | C | | D♦ | | E | | F | | Slots | | Fig. | Weight (lbs) |
|--------------------|-------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|---------|-----------|------|--------------|
| I | II | III | IV | IN | mm | IN | mm | IN | mm | IN | mm | IN | mm | IN | mm | IN | mm | | |
| T25 | T25 | ... | ... | 3.09 | 78.5 | 3.00 | 76.2 | 2.58 | 65.5 | 3.84 | 97.5 | 2.00 | 50.8 | 2.50 | 63.5 | .20x.38 | 5.1x9.7 | 1 | 2.5 |
| ... | ... | T25 | ... | 4.00 | 101.6 | 3.43 | 87.1 | 2.64 | 67.0 | 4.80 | 121.9 | 2.00 | 50.8 | 2.50 | 63.5 | .20x.48 | 5.1x12.2 | 2 | 3.5 |
| ... | ... | T50 | T50 | 4.19 | 106.4 | 3.43 | 87.1 | 2.89 | 73.4 | 4.99 | 126.7 | 2.38 | 60.5 | 2.81 | 71.4 | .20x.48 | 5.1x12.2 | 2 | 4.0 |
| T75 | T100 | ... | ... | 3.34 | 84.8 | 3.38 | 85.8 | 2.89 | 73.4 | 4.09 | 103.9 | 2.38 | 60.5 | 2.81 | 71.4 | .20x.48 | 5.1x12.2 | 1 | 3.8 |
| T150 | T200 | T75 | ... | 3.59 | 91.2 | 3.75 | 95.3 | 3.20 | 81.3 | 4.34 | 110.2 | 2.88 | 73.2 | 3.13 | 79.5 | .20x.38 | 5.1x9.7 | 1 | 5.5 |
| ... | ... | T75 | T100 | 4.88 | 124.0 | 3.75 | 95.3 | 3.20 | 81.3 | 5.68 | 144.2 | 2.88 | 73.2 | 3.13 | 79.5 | .20x.38 | 5.1x9.7 | 2 | 7.2 |
| T250 | ... | T150 | T100 | 5.25 | 133.4 | 3.75 | 95.3 | 3.25 | 82.6 | 6.05 | 153.6 | 2.88 | 73.2 | 3.13 | 79.5 | .20x.38 | 5.1x9.7 | 2 | 7.1 |
| T300 | T200 | T200 | T150 | 4.70 | 119.4 | 4.50 | 114.3 | 3.80 | 96.5 | 5.50 | 139.7 | 2.56 | 65.0 | 3.75 | 95.3 | .20x.38 | 5.1x9.7 | 2 | 8.5 |
| T350 | T250 | T250 | T200 | 5.09 | 129.3 | 4.50 | 114.3 | 3.80 | 96.5 | 5.89 | 149.6 | 3.00 | 76.2 | 3.75 | 95.3 | .20x.38 | 5.1x9.7 | 2 | 10.5 |
| T500 | T350 | T350 | T300 | 5.46 | 138.7 | 4.50 | 114.3 | 3.80 | 96.5 | 6.26 | 159.0 | 3.56 | 90.4 | 3.75 | 95.3 | .28x.56 | 7.1x14.2 | 2 | 11.9 |
| T750 | T500 | T500 | T350 | 5.66 | 143.8 | 5.25 | 133.4 | 4.43 | 112.5 | 6.46 | 164.0 | 3.43 | 87.1 | 4.38 | 111.3 | .28x.56 | 7.1x14.2 | 2 | 11.0 |
| T1000 | T750 | T750 | T750 | 6.04 | 153.4 | 5.25 | 133.4 | 4.43 | 112.5 | 6.84 | 173.7 | 4.31 | 109.5 | 4.38 | 111.3 | .28x.56 | 7.1x14.2 | 2 | 20.6 |
| T1500 | T1000 | T1000 | T1000 | 5.81 | 147.6 | 7.06 | 179.3 | 6.16 | 156.5 | 6.61 | 167.9 | 4.13 | 104.9 | 5.81 | 147.6 | .28x.56 | 7.1x14.2 | 2 | 34.0 |
| T2000 | T1500 | T1500 | T1500 | 7.04 | 178.8 | 7.06 | 179.3 | 6.16 | 156.5 | 7.84 | 199.1 | 4.56 | 115.8 | 5.81 | 147.6 | .28x.56 | 7.1x14.2 | 2 | 47.0 |
| T3000 | T2000 | T2000 | T2000 | 6.86 | 174.2 | 9.00 | 228.6 | 8.46 | 214.9 | 7.26 | 184.4 | 4.63 | 117.6 | 7.63 | 193.8 | .44x.69 | 11.2x17.5 | 3 | 60.0 |
| T5000 | T3000 | T3000 | T3000 | 8.73 | 221.7 | 9.00 | 228.6 | 8.46 | 214.9 | 9.13 | 231.9 | 6.56 | 166.6 | 7.63 | 193.8 | .44x.69 | 11.2x17.5 | 3 | 89.0 |

♦ Dimension with FINGERSAFE® Covers

Industrial Control Transformers

Class 9070

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The Type TF units are the Type T units with factory installed primary and secondary fusing. Fuse blocks are rated for 30 amp, and accept 1-1/2 x 13/32 fuses. The Primary fuse blocks are designed for rejection style fuses, requiring customer to use 200,000 AIC rated fuses.

Type TF: Factory Installed Primary and Secondary Fuse Blocks

| UL/CSA VA | CE VA | Type | D1 240 X 480 120 I | D2 240 x 480 24 I | D3 208 120 I | D5 600 120 I | D20 208/230/460 115 II | D23 120/240 24 I |
|-----------|-------|--------|-----------------------------|----------------------------|-----------------------|-----------------------|---------------------------------|---------------------------|
| 50 | 50 | TF50 | \$ 52. | \$ 58. | \$ 58. | \$ 58. | \$ 85. | \$ 58. |
| 75 | 75 | TF75 | 58. | ... | ... | ... | ... | 66. |
| 100 | 100 | TF100 | 63. | 72. | 72. | 72. | 92. | 72. |
| 150 | 150 | TF150 | 67. | 87. | 87. | 87. | 113. | 87. |
| 200 | 200 | TF200 | 80. | 92. | 92. | 92. | 139. | 92. |
| 250 | 160 | TF250 | 90. | 120. | 120. | 120. | 156. | 120. |
| 300 | 200 | TF300 | 98. | 134. | 134. | 134. | 172. | 134. |
| 350 | 250 | TF350 | 104. | ... | ... | ... | ... | 136. |
| 500 | 300 | TF500 | 124. | 164. | 164. | 164. | 191. | 164. |
| 750 | 500 | TF750 | 167. | ... | ... | ... | ... | ... |
| 1000 | 630 | TF1000 | 201. | ... | ... | ... | ... | ... |
| 1500 | 1000 | TF1500 | 278. | ... | ... | ... | ... | ... |
| 2000 | 1500 | TF2000 | 335. | ... | ... | ... | ... | ... |

Dimensions—Type TF Only

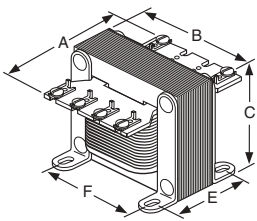


| VA Key | | | Figure | A | B | C | D♦ | E | F | G★ | Slot | Weight (lbs) |
|---------|---------|---------|--------|------|------|------|------|------|------|------|-----------|--------------|
| I | II | III | | | | | | | | | | |
| 25 VA | ... | ... | 3 | 3.09 | 3.00 | 4.00 | 3.84 | 2.00 | 2.50 | 4.20 | .20 x .38 | 2.9 |
| ... | ... | 25 VA | 3 | 4.00 | 3.43 | 4.00 | 4.80 | 2.00 | 2.50 | 4.20 | .20 X .48 | 3.9 |
| 50 VA | 25 VA | ... | 3 | 3.09 | 3.00 | 4.00 | 3.84 | 2.00 | 2.50 | 4.20 | .20 x .38 | 2.9 |
| ... | ... | 50 VA | 3 | 4.19 | 3.43 | 4.25 | 4.99 | 2.38 | 2.81 | 4.45 | .20 X .48 | 4.4 |
| 75 VA | 50 VA | ... | 3 | 3.34 | 3.38 | 4.25 | 4.09 | 2.38 | 2.81 | 4.45 | .20 X .48 | 4.2 |
| ... | 75 VA | ... | 3 | 3.59 | 3.75 | 4.55 | 4.34 | 2.88 | 3.13 | 4.75 | .20 x .38 | 5.9 |
| ... | ... | 75 VA | 3 | 4.88 | 3.75 | 4.55 | 5.68 | 2.88 | 3.13 | 4.75 | .20 x .38 | 7.6 |
| 100 VA | ... | ... | 3 | 3.34 | 3.38 | 4.25 | 4.09 | 2.38 | 2.81 | 4.45 | .20 X .48 | 4.2 |
| ... | ... | 100 VA | 3 | 4.88 | 3.75 | 4.55 | 5.68 | 2.88 | 3.13 | 4.75 | .20 x .38 | 7.6 |
| 150 VA | 100 VA | ... | 3 | 3.59 | 3.75 | 4.55 | 4.34 | 2.88 | 3.13 | 4.75 | .20 x .38 | 5.9 |
| 200 VA | 150 VA | ... | 3 | 3.59 | 3.75 | 4.55 | 4.34 | 2.88 | 3.13 | 4.75 | .20 x .38 | 5.9 |
| 250 VA | ... | 150 VA | 3 | 5.25 | 3.75 | 4.55 | 6.05 | 2.88 | 3.13 | 4.75 | .20 x .38 | 7.5 |
| 300 VA | 200 VA | 200 VA | 3 | 4.70 | 4.50 | 5.10 | 5.50 | 2.56 | 3.75 | 5.30 | .20 x .38 | 8.9 |
| 350 VA | 250 VA | 250 VA | 3 | 5.09 | 4.50 | 5.10 | 5.89 | 3.00 | 3.75 | 5.30 | .20 x .38 | 10.9 |
| ... | 300 VA | ... | 3 | 5.09 | 4.50 | 5.10 | 5.89 | 3.00 | 3.75 | 5.30 | .20 x .38 | 10.9 |
| ... | ... | 300 VA | 3 | 5.46 | 4.50 | 5.10 | 6.26 | 3.56 | 3.75 | 5.30 | .20 x .38 | 12.3 |
| 500 VA | 350 VA | ... | 3 | 5.46 | 4.50 | 5.10 | 6.26 | 3.56 | 3.75 | 5.30 | .20 x .38 | 12.3 |
| ... | ... | 350 VA | 3 | 5.46 | 4.50 | 5.10 | 6.26 | 3.56 | 3.75 | 5.30 | .20 x .38 | 12.3 |
| 750 VA | 500 VA | 500 VA | 3 | 5.66 | 5.25 | 5.73 | 6.46 | 3.43 | 4.38 | 5.93 | .28 X .56 | 11.4 |
| 1000 VA | 750 VA | 750 VA | 3 | 6.04 | 5.25 | 5.73 | 6.84 | 4.31 | 4.38 | 5.93 | .28 X .56 | 21.0 |
| 1500 VA | 1000 VA | 1000 VA | 3 | 5.81 | 7.06 | 7.46 | 6.61 | 4.13 | 5.81 | 7.66 | .28 X .56 | 34.4 |
| 2000 VA | 1500 VA | 1500 VA | 3 | 7.04 | 7.06 | 7.46 | 7.84 | 4.56 | 5.81 | 7.66 | .28 X .56 | 47.4 |

♦ Dimensions with FINGERSAFE® covers installed.
★ Dimensions with fuse pullers installed.

The Type EO are designed with exceptional voltage regulation. These control transformers are constructed using traditional materials and manufacturing techniques. When exceptional regulation and very low temperature rise are an absolute necessity, choose the Type EO units. Type EO transformers are designed 25 VA to 5000 VA with 55°C rise.

Type E



| Type | VA | | Dimensions - See Figure 4 | | | | | | Weight (lbs) |
|------|-------|-------|---------------------------|------|------|------|------|-----------|--------------|
| | 60 Hz | 50 Hz | A | B | C | E | F | Slot | |
| EO17 | 25 | 25 | 3.31 | 3.00 | 2.50 | 1.75 | 2.50 | .20 x .38 | 1.9 |
| EO1 | 50 | 35 | 3.31 | 3.00 | 2.50 | 2.00 | 2.50 | .20 x .38 | 2.2 |
| EO18 | 75 | 75 | 3.78 | 3.38 | 2.81 | 2.19 | 2.81 | .20 x .38 | 3.5 |
| EO2 | 100 | 70 | 3.78 | 3.38 | 2.81 | 2.38 | 2.81 | .20 x .38 | 3.8 |
| EO3 | 150 | 120 | 4.44 | 3.75 | 3.13 | 2.88 | 3.13 | .20 x .38 | 6.0 |
| EO4 | 300 | 240 | 5.56 | 4.50 | 3.75 | 3.25 | 3.75 | .20 x .38 | 10.5 |
| EO16 | 350 | 280 | 6.19 | 4.50 | 3.75 | 3.81 | 3.75 | .20 x .38 | 13.2 |
| EO51 | 500 | 400 | 6.56 | 5.25 | 4.38 | 3.81 | 4.38 | .28 x .41 | 17.2 |
| EO61 | 750 | 500 | 7.94 | 5.25 | 4.38 | 5.13 | 4.38 | .28 x .41 | 24.5 |
| EO71 | 1000 | 900 | 7.94 | 6.00 | 5.00 | 4.75 | 5.00 | .28 x .63 | 30.5 |
| EO81 | 1500 | 1300 | 8.59 | 7.06 | 6.03 | 5.88 | 5.81 | .44 x .69 | 45.0 |
| EO91 | 2000 | 1800 | 9.22 | 7.06 | 6.03 | 6.50 | 5.81 | .44 x .69 | 56.0 |
| EO10 | 3000 | 3000 | 9.44 | 9.00 | 8.38 | 5.88 | 7.63 | .44 x .69 | 72.0 |
| EO11 | 5000 | 5000 | 12.06 | 9.00 | 8.38 | 8.50 | 7.63 | .44 x .69 | 115.0 |

Type E Stocked Voltages

| Type | VA | | Stocked Voltage Codes | Price |
|------|-------|-------|-----------------------|----------|
| | 60 Hz | 50 Hz | | |
| EO17 | 25 | 25 | D1, D2, D3 | \$ 37.10 |
| EO1 | 50 | 35 | D1, D2, D7 | 46.60 |
| EO18 | 75 | 75 | D1, D2 | 54.00 |
| EO2 | 100 | 70 | D1, D2 | 64.00 |
| EO3 | 150 | 120 | D1, D7 | 72.00 |
| EO4 | 300 | 240 | D1, D5, D7 | 130.00 |
| EO16 | 350 | 280 | D1, D2 | 139.00 |
| EO51 | 500 | 400 | D1, D5, D6 | 157.00 |
| EO61 | 750 | 500 | D1, D5 | 223.00 |
| EO71 | 1000 | 900 | D1, D5 | 256.00 |
| EO81 | 1500 | 1300 | D1 | 392.00 |
| EO91 | 2000 | 1800 | D1 | 475.00 |
| EO10 | 3000 | 3000 | D1 | 685.00 |
| EO11 | 5000 | 5000 | D1 | 1044.00 |

| Listing | File | File |
|---------|-------------------------|-----------|
| UL | E61239 | EO17-EO11 |
| CSA | LR37055, Guide 184-N-90 | |



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For the most up-to-date information

Industrial Control Transformers

Accessories

Class 9070

The Type T control transformers offer multiple field installable accessories:

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 | N/A | 2 covers per kit | \$6.80 | 10 | \$68. |
| FSC2 | T250-T5000 | T250-T5000 | N/A | 2 covers per kit | 9.30 | 10 | 93. |
| FSC23 | N/A | N/A | T25-T5000 | 2 covers per kit | 9.50 | 10 | 95. |

▲ 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).

Separate NEMA Type 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 14-105 & 14-106 for dimensions.

Field Installed Fuse Options

Primary and Secondary Fusing

| Type | Type Accessory Key | | | Description | Price Each | Order Qty. | Order Price |
|------|--------------------|----------|---------|--|------------|------------|-------------|
| | I | II | III, IV | | | | |
| FB3A | 25-200 | 25-150 | N/A | Three pole fuse block for primary and secondary fusing, accommodates 1-1/2" x 13/32" midget fuse (2 rejection and 1 non-rejection) | \$27.30 | 1 | \$27.30 |
| FB3B | 250-2000 | 200-2000 | 25-2000 | Three pole fuse block for primary and secondary fusing, accommodates 1-1/2" x 13/32" midget fuse (2 rejection and 1 non-rejection) | 27.30 | 1 | 27.30 |

Primary Fusing

| Type | Type Accessory Key | | | Description | Price Each | Order Qty. | Order Price |
|------|--------------------|----------|---------|--|------------|------------|-------------|
| | I | II | III, IV | | | | |
| FB2A | 25-200 | 25-150 | N/A | Two pole fuse block for primary fusing, accommodates 1-1/2" x 13/32" midget fuse (2 rejection) | \$23.50 | 1 | \$23.50 |
| FB2B | 250-2000 | 200-2000 | 25-2000 | Two pole fuse block for primary fusing, accommodates 1-1/2" x 13/32" midget fuse (2 rejection) | 23.50 | 1 | 23.50 |

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% we recommend 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.

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 | 282 |
| 75 | 271 | 396 | 520 | 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 | 46161 | 24794 | 31630 | 38667 |
| 3000 | 26539 | 39934 | 52713 | 19355 | 30721 | 42216 |
| 5000 | 53111 | 85265 | 116277 | 39368 | 66309 | 93882 |

Jumper Kits

| Catalog Number | Type Accessory Key | | | Description | Price Each | Order Qty. | Order Price |
|----------------|--------------------|------------|-----------|--------------------------|------------|------------|-------------|
| | I | II | III, IV | | | | |
| 3003302753 | T25-T200 | T25-T150 | N/A | Two jumpers per bag | \$1.70 | 50 | \$85. |
| 3003302754 | T250-T5000 | T200-T3000 | T25-T3000 | Minimum order of 50 kits | 1.70 | 50 | 85. |

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

Fuse Pullers (use on TF and FB accessory)

| Catalog | Price Each | Order Qty. | Order Price |
|---------|------------|------------|-------------|
| 9070FP1 | \$10.20 | 10 | \$102. |

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 | N/A | Secondary fuse block accommodates 1-1/4" x 1/4" fuse | \$ 6.80 | 10 | \$68.00 |
| SF25B | 250-2000 | 200-2000 | 25-2000 | Secondary fuse block accommodates 1-1/4" x 1/4" fuse | 6.80 | 10 | 68.00 |
| SF41A | 25-200 | 25-150 | N/A | Secondary fuse clip accommodates 1-1/2" x 13/32" midget fuse | 5.60 | 10 | 56.00 |
| SF41B | 250-2000 | 200-2000 | 25-2000 | Secondary fuse clip accommodates 1-1/2" x 13/32" midget fuse | 5.60 | 10 | 56.00 |
| FB1A | 25-200 | 25-150 | N/A | One pole fuse block for secondary fusing, accommodates 1-1/2" x 13/32" midget fuse (1 non-rejection) | 16.40 | 1 | 16.40 |
| FB1B | 250-2000 | 200-2000 | 25-2000 | One pole fuse block for secondary fusing, accommodates 1-1/2" x 13/32" midget fuse (1 non-rejection) | 16.40 | 1 | 16.40 |

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

Regulation Chart for Type E

| 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 |
| 25 | 95 | 146 | 119 | 60 | 168 | 225 |
| 50 | 164 | 213 | 277 | 123 | 375 | 798 |
| 75 | 387 | 487 | 622 | 284 | 463 | 613 |
| 100 | 479 | 606 | 770 | 346 | 930 | 1252 |
| 150 | 755 | 1177 | 1532 | 567 | 930 | 1252 |
| 200 | 1260 | 1883 | 2419 | 910 | 1462 | 1950 |
| 250 | 1530 | 2327 | 2995 | 1115 | 1811 | 2419 |
| 300 | 2030 | 2981 | 3800 | 1455 | 2290 | 3038 |
| 350 | 2920 | 4586 | 5981 | 2180 | 3637 | 4903 |
| 500 | 4230 | 5984 | 7707 | 3120 | 4661 | 6229 |
| 750 | 7430 | 11460 | 14736 | 5380 | 8907 | 11891 |
| 1000 | 10300 | 16873 | 21734 | 7450 | 13145 | 17571 |
| 1500 | 19200 | 30042 | 39217 | 14500 | 23859 | 32179 |
| 2000 | 27750 | 45194 | 60022 | 21750 | 36901 | 50334 |
| 3000 | 31800 | 82333 | 108205 | 26750 | 66072 | 89509 |
| 5000 | 86100 | 148768 | 202077 | 72600 | 126887 | 175552 |



Type EL and KL with Leads

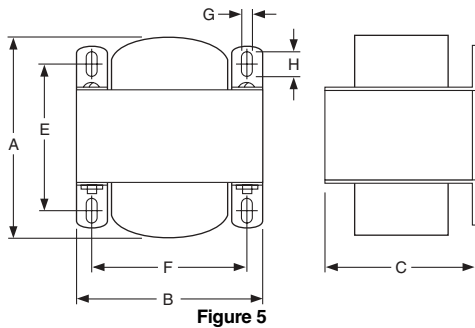


Figure 5



SF41
Field or Factory Installed
Fuse Clips



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

Transformers with Leads

Transformers with leads, instead of screw terminals, are available. See the following chart for VA sizes and voltage combinations. Consult your nearest Square D/Schneider Electric sales office for further details. Lead length is 25".

| Type | VA | Voltage | Price |
|---------|-----|---------|----------|
| EL1D9 | 50 | 480-120 | \$ 72.00 |
| EL2D9 | 100 | 480-120 | 97.00 |
| EL3D9 | 150 | 480-120 | 111.00 |
| KL300D9 | 300 | 480-120 | 180.00 |

Class 9070 Type EL, KL

| Type | Weight (lbs.) | Dimensions – See Figure 5 | | | | | | |
|-------|---------------|-------------------------------|-------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|-------------------------------|
| | | A | B | C | E | F | G | H |
| EL1 | 2.2 | 2 ⁵ / ₈ | 3 | 2 ¹ / ₂ | 2 | 2 ¹ / ₂ | 1 ³ / ₆₄ | 3 ³ / ₈ |
| EL2 | 3.8 | 3 | 3 ³ / ₈ | 2 ¹³ / ₁₆ | 2 ³ / ₈ | 2 ¹³ / ₁₆ | 1 ³ / ₆₄ | 3 ³ / ₈ |
| EL3 | 6.0 | 3 ⁵ / ₈ | 3 ³ / ₄ | 3 ¹ / ₈ | 2 ⁷ / ₈ | 3 ¹ / ₈ | 1 ³ / ₆₄ | 3 ³ / ₈ |
| KL300 | 8.0 | 3 ¹ / ₂ | 4 ¹ / ₂ | 3 ³ / ₄ | 2 ⁹ / ₁₆ | 3 ³ / ₄ | 1 ³ / ₆₄ | 3 ³ / ₈ |

Factory Installed Secondary Fuse Clips

D1:240 x 480-120

| UL/CSA VA | CE VA | Catalog Number | Price |
|-----------|-------|----------------|----------|
| 50 | 50 | 9070T50D1SF41 | \$ 41.70 |
| 100 | 100 | 9070T100D1SF41 | 54.00 |
| 150 | 150 | 9070T150D1SF41 | 57.00 |
| 250 | 160 | 9070T250D1SF41 | 82.00 |
| 500 | 300 | 9070T500D1SF41 | 117.00 |
| 750 | 500 | 9070T750D1SF41 | 159.00 |

Class 9070 Transformer Disconnect – Improved Design

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.

The standard enclosure is a lockable NEMA Type 1 for general purpose applications. The disconnect switch is rated at 45 amperes, 600 volts, and has an external handle mechanically interlocked with the enclosure cover. The handle can lock in the "off" position. There is also a standard fusible and grounded transformer secondary.

For additional information, reference Catalog #9070CT0301.