

Catalog Number Selection

General-Purpose, Energy-Efficient, Mini-Power Center, Shielded Isolation, Nonlinear, Buck-Boost, Marine Duty Transformers—
Example: S20N11S05A

T S 20 N 11 S 05 A

<p>Prefix Options</p> <p>C = CSA labeled ventilated transformer</p> <p>Marine Duty</p> <p>QS = EPM marine (1-Ph encapsulated)</p> <p>LY = EPTM Marine (3-Ph encapsulated)</p> <p>RT = DS-3M marine (1-Ph ventilated)</p> <p>MV = DT-3M marine (3-Ph ventilated)</p>	<p>Primary Voltage</p> <p>13 = 110 x 220</p> <p>12 = 120</p> <p>10 = 120 x 240</p> <p>29 = 208</p> <p>72 = 200</p> <p>25 = 220</p> <p>23 = 230</p> <p>24 = 240</p> <p>20 = 240 x 480</p> <p>27 = 277</p> <p>38 = 380</p> <p>39 = 400</p> <p>43 = 416</p> <p>44 = 440</p> <p>45 = 450</p> <p>48 = 480</p> <p>57 = 575</p> <p>60 = 600</p> <p>42 = 2400</p> <p>46 = 4160</p> <p>49 = 4800</p> <p>40 = Export model</p> <p>54 = 120/208/240/277</p>	<p>kVA</p> <table border="1"> <tr> <td>81 = 0.05</td> <td>03 = 3</td> <td>37 = 37.5</td> <td>52 = 250</td> </tr> <tr> <td>85 = 0.075</td> <td>05 = 5</td> <td>45 = 45</td> <td>33 = 300</td> </tr> <tr> <td>82 = 0.10</td> <td>06 = 6</td> <td>50 = 50</td> <td>54 = 333</td> </tr> <tr> <td>83 = 0.15</td> <td>07 = 7.5</td> <td>75 = 75</td> <td>55 = 500</td> </tr> <tr> <td>26 = 0.25</td> <td>09 = 9</td> <td>99 = 100</td> <td>60 = 600</td> </tr> <tr> <td>51 = 0.50</td> <td>10 = 10</td> <td>12 = 112.5</td> <td>77 = 750</td> </tr> <tr> <td>76 = 0.75</td> <td>15 = 15</td> <td>49 = 150</td> <td>11 = 1000</td> </tr> <tr> <td>01 = 1</td> <td>21 = 22.5</td> <td>67 = 167</td> <td>14 = 1500</td> </tr> <tr> <td>16 = 1.5</td> <td>25 = 25</td> <td>22 = 225</td> <td></td> </tr> <tr> <td>02 = 2</td> <td>30 = 30</td> <td></td> <td></td> </tr> </table>	81 = 0.05	03 = 3	37 = 37.5	52 = 250	85 = 0.075	05 = 5	45 = 45	33 = 300	82 = 0.10	06 = 6	50 = 50	54 = 333	83 = 0.15	07 = 7.5	75 = 75	55 = 500	26 = 0.25	09 = 9	99 = 100	60 = 600	51 = 0.50	10 = 10	12 = 112.5	77 = 750	76 = 0.75	15 = 15	49 = 150	11 = 1000	01 = 1	21 = 22.5	67 = 167	14 = 1500	16 = 1.5	25 = 25	22 = 225		02 = 2	30 = 30			<p>Suffix Options</p> <p>A...Y = ①</p> <p>CU = ②</p> <p>SS = ③</p> <p>ZZ = ④</p> <p>NV = ⑤</p> <p>X = ⑥</p> <p>LS = ⑦</p> <p>AF = ⑧</p> <p>TR = ⑨</p> <p>SR = ⑩</p> <p>CE = ⑪</p> <p>T = ⑫</p> <p>EE = ⑬</p> <p>NON = ⑭</p> <p>POS = ⑮</p> <p>NEG = ⑯</p> <p>THR = ⑰</p> <p>E3 = ⑱</p> <p>SS4X = ⑲</p> <p>Z = ⑳</p> <p>S6 = ㉑</p> <p>I2 = ㉒</p> <p>I3 = ㉓</p> <p>I4 = ㉔</p> <p>N3 = ㉕</p>
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<p>Type</p> <p>S = EP (single-phase encapsulated)</p> <p>Y = EPT (three-phase encapsulated)</p> <p>T = DS-3 (single-phase ventilated)</p> <p>V = DT-3 (three-phase ventilated)</p> <p>P = Mini-power center</p> <p>Z = Class 1 Division 2 Groups A, B, C, D</p> <p>X = Harmonic mitigating (three-phase ventilated)</p> <p>Nonlinear</p> <p>H = KT-4 (three-phase ventilated)</p> <p>B = KT-9 (three-phase ventilated)</p> <p>N = KT-13 (three-phase ventilated)</p> <p>G = KT-20 (three-phase ventilated)</p> <p>J = KT-30 (three-phase ventilated)</p> <p>A = KT-40 (three-phase ventilated)</p> <p>K = KT-50 (three-phase ventilated)</p> <p>HT = KT-4 (single-phase ventilated)</p> <p>NT = KT-13 (single-phase ventilated)</p> <p>GT = KT-20 (single-phase ventilated)</p>	<p>Taps</p> <p>D = 2 at +2.5%, 2 at -2.5%</p> <p>E = 1 at +5%, 1 at -5%</p> <p>F = 1 at -10%</p> <p>G = 2 at -5%</p> <p>J = 4 at -2.5%</p> <p>K = 1 at -10% x 2 at -5%</p> <p>L = 2 at -5% x 4 at -2.5%</p> <p>M = 2 at +2.5%, 4 at -2.5%</p> <p>N = None</p> <p>R = 1 at +5%, 2 at -5%</p> <p>P = 1 at +5%, 2 at -5% x 2 at +2.5%, 4 at -2.5%</p> <p>T = 1 at +4.2%, 1 at -4.2%</p> <p>U = 1 at +2.5%, 3 at -2.5%</p> <p>W = 1 at +3.5%, 1 at -3.5%</p> <p>X = 2 at +3.1%, 2 at -3.1%</p>	<p>Temperature Rise</p> <p>T = 150°C rise with 220°C insulation system (ventilated)</p> <p>F = 115°C rise with 220°C insulation system (ventilated)</p> <p>B = 80°C rise with 220°C insulation system (ventilated)</p> <p>H = 130°C rise with 200°C insulation system (ventilated)</p> <p>G = 115°C rise with 200°C insulation system (ventilated)</p> <p>J = 80°C rise with 220°C insulation system (ventilated)</p> <p>P = 115°C rise with 130°C insulation system (encapsulated)</p> <p>S = 115°C rise with 180°C insulation system (encapsulated and MPC)</p> <p>L = 80°C rise with 180°C insulation system (encapsulated and MPC)</p>	<p>Secondary Voltage</p> <table border="1"> <tr> <td>04 = 12/24</td> <td>20 = 240 x 480</td> </tr> <tr> <td>06 = 16/32</td> <td>21 = 240/480</td> </tr> <tr> <td>08 = 24/48</td> <td>27 = 277</td> </tr> <tr> <td>14 = 110/220</td> <td>38 = 380 delta</td> </tr> <tr> <td>12 = 120</td> <td>37 = 380Y/220</td> </tr> <tr> <td>10 = 120 x 240</td> <td>34 = 400Y/231</td> </tr> <tr> <td>11 = 120/240</td> <td>51 = 416Y/240</td> </tr> <tr> <td>54 = 127/254</td> <td>35 = 440Y/254</td> </tr> <tr> <td>19 = 190Y/110</td> <td>62 = 460Y/266</td> </tr> <tr> <td>28 = 208Y/120</td> <td>47 = 480Y/277</td> </tr> <tr> <td>29 = 208</td> <td>48 = 480 delta</td> </tr> <tr> <td>25 = 220 delta</td> <td>60 = 600 delta</td> </tr> <tr> <td>31 = 220Y/127</td> <td>61 = 600Y/346</td> </tr> <tr> <td>26 = 220 delta/110 midtap</td> <td>42 = 2400</td> </tr> <tr> <td>22 = 240 delta/120 midtap</td> <td>41 = 4160Y/2400</td> </tr> <tr> <td>64 = 240Y/139</td> <td>46 = 4160</td> </tr> <tr> <td>24 = 240 delta</td> <td>49 = 4800</td> </tr> </table>	04 = 12/24	20 = 240 x 480	06 = 16/32	21 = 240/480	08 = 24/48	27 = 277	14 = 110/220	38 = 380 delta	12 = 120	37 = 380Y/220	10 = 120 x 240	34 = 400Y/231	11 = 120/240	51 = 416Y/240	54 = 127/254	35 = 440Y/254	19 = 190Y/110	62 = 460Y/266	28 = 208Y/120	47 = 480Y/277	29 = 208	48 = 480 delta	25 = 220 delta	60 = 600 delta	31 = 220Y/127	61 = 600Y/346	26 = 220 delta/110 midtap	42 = 2400	22 = 240 delta/120 midtap	41 = 4160Y/2400	64 = 240Y/139	46 = 4160	24 = 240 delta	49 = 4800						
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Notes

- ① Model number is not used on newly designed/redesigned transformers.
- ② Copper windings.
- ③ Grade 304 stainless steel enclosure (does not imply a NEMA 4X rating).
- ④ Open type core and coil assembly.
- ⑤ Totally enclosed non-ventilated DS-3 or DT-3.
- ⑥ 50/60 Hz.
- ⑦ Low sound design. LS47 indicates low sound equal to 47 dB; LS42 indicates 42 dB.

- ⑧ Fungus proof.
- ⑨ Certified test report of standard production tests for the specific serial number to be shipped.
- ⑩ Certified sound level report.
- ⑪ CE Marked.
- ⑫ Thermal indicator embedded in center coil. Suffix "TT" indicates two thermal indicators of different temperature ratings, are installed.
- ⑬ NEMA TP-1 efficient.

- ⑭ 0° phase-shift (used with HMTs).
- ⑮ +15° phase-shift (used with HMTs).
- ⑯ -15° phase-shift (used with HMTs).
- ⑰ -30° phase-shift (used with HMTs).
- ⑱ CSL3 DOE 2007 energy-efficient.
- ⑲ NEMA 4X Grade 304 stainless steel enclosure.
- ⑳ Easy install base.
- ㉑ Grade 316 stainless steel enclosure (does not imply NEMA 4X rating).
- ㉒ Integral 2-inch infrared viewing window.
- ㉓ Integral 3-inch infrared viewing window.
- ㉔ Integral 4-inch infrared viewing window.
- ㉕ NEMA Premium® Efficient.

For Eaton's industrial control transformers catalog number selection, see **Page V2-T2-188**.
Contact your local Eaton sales office for voltage combinations not shown. Use table for catalog number breakdown only. Do not use to create catalog numbers because all combinations may not be valid.