

Summary

Three-phase wye buck-boost transformer. Steps up 380V to 419V at 41.7 amps continuous output. 30.26 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 380V three phase building supply to 419V wye at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 419V that is installed on a 380V system experiencing undervoltage from the utility.

Configured as a wye autotransformer, the unit handles only the difference between input and output and not the full load. This is why a 41.7-amp buck-boost transformer is significantly smaller and lighter than a 41.7-amp isolation transformer. The encapsulated core construction eliminates audible hum and provides stable thermal performance under continuous duty.

Features a removable wiring compartment door, removable knockout plate, and six NPT knockouts for flexible conduit entry. Surface mounting bracket for easy wall mount installations.



TX-BB-380Y-419Y.242-42A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Three Phase Wye (3-PH), AC	Transformer Type	Buck/Boost
Capacity	30.26 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	380V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	46.00A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	419V	Termination Access	(6) 3/4" NPT Hubs
Secondary Amperage	41.7A	Winding Material	Aluminum
Maximum Primary OCP	60A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	81 lbs
Temperature Rise	115°C	Dimensions	5.43 x 4.49 x 10.08

Ratings & Certifications

- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-5085 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



Common Applications

- HVAC & Minisplit
- Loads CNC Machines
- Pump Stations
- Packaging Machines
- Commercial Kitchen Equipment
- Motor Loads
- EV Chargers
- Server Racks & IT Equipment
- Refrigeration & Walk-in
- Coolers Fans & Blowers
- Conveyor Systems
- Overhead Doors

Important: Buck-boost transformers applied as autotransformers do not provide circuit isolation and do not create a neutral. Contact us if your application requires isolation or neutral creation.

Dimensions

Three-phase wye installation — (3) enclosures required.



Connection Guide

1. Connect **X4** and **X3** together for each transformer
2. Connect High Voltage **PHASE A** to **X4** and **X3** on transformer 1
3. Connect High Voltage **PHASE B** to **X4** and **X3** on transformer 2
4. Connect High Voltage **PHASE C** to **X4** and **X3** on transformer 3
5. Connect **X2** and **X1** together for each transformer
6. Connect Low Voltage **PHASE A** to **X1**, **X2**, **H4**, **H3** on transformer 1
7. Connect Low Voltage **PHASE B** to **X1**, **X2**, **H4**, **H3** on transformer 2
8. Connect Low Voltage **PHASE C** to **X1**, **X2**, **H4**, **H3** on transformer 3
9. Connect **NEUTRAL** to **H1** and **H2**
10. Bridge **H1** and **H2** connections between ALL transformers

DIAGRAM J2

HIGH VOLTAGE





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The image displays three identical Sanzo Sales autotransformers, model TX-BB-208Y-240Y-40A, arranged side-by-side. Each unit is a light gray, rectangular metal enclosure with a hinged top cover. The front panel of each unit features a white label with the Sanzo Sales logo and technical specifications. The label includes a table of ratings and a section for compliance information. The units are designed for industrial or commercial use, providing a 208V primary and 240V secondary output at 40A.

Sanzo Sales TX-BB-208Y-240Y-40A

Rating	Configuration	Application
Primary Voltage	208Y	40A
Secondary Voltage	240Y	40A
Rated Power	9.6 kVA	40A
Max. Input Voltage	240V	40A
Max. Output Voltage	240V	40A

Compliance: Type B, UL 516, UL 517, UL 518, UL 519, UL 520, UL 521, UL 522, UL 523, UL 524, UL 525, UL 526, UL 527, UL 528, UL 529, UL 530, UL 531, UL 532, UL 533, UL 534, UL 535, UL 536, UL 537, UL 538, UL 539, UL 540, UL 541, UL 542, UL 543, UL 544, UL 545, UL 546, UL 547, UL 548, UL 549, UL 550, UL 551, UL 552, UL 553, UL 554, UL 555, UL 556, UL 557, UL 558, UL 559, UL 560, UL 561, UL 562, UL 563, UL 564, UL 565, UL 566, UL 567, UL 568, UL 569, UL 570, UL 571, UL 572, UL 573, UL 574, UL 575, UL 576, UL 577, UL 578, UL 579, UL 580, UL 581, UL 582, UL 583, UL 584, UL 585, UL 586, UL 587, UL 588, UL 589, UL 590, UL 591, UL 592, UL 593, UL 594, UL 595, UL 596, UL 597, UL 598, UL 599, UL 600, UL 601, UL 602, UL 603, UL 604, UL 605, UL 606, UL 607, UL 608, UL 609, UL 610, UL 611, UL 612, UL 613, UL 614, UL 615, UL 616, UL 617, UL 618, UL 619, UL 620, UL 621, UL 622, UL 623, UL 624, UL 625, UL 626, UL 627, UL 628, UL 629, UL 630, UL 631, UL 632, UL 633, UL 634, UL 635, UL 636, UL 637, UL 638, UL 639, UL 640, UL 641, UL 642, UL 643, UL 644, UL 645, UL 646, UL 647, UL 648, UL 649, UL 650, UL 651, UL 652, UL 653, UL 654, UL 655, UL 656, UL 657, UL 658, UL 659, UL 660, UL 661, UL 662, UL 663, UL 664, UL 665, UL 666, UL 667, UL 668, UL 669, UL 670, UL 671, UL 672, UL 673, UL 674, UL 675, UL 676, UL 677, UL 678, UL 679, UL 680, UL 681, UL 682, UL 683, UL 684, UL 685, UL 686, UL 687, UL 688, UL 689, UL 690, UL 691, UL 692, UL 693, UL 694, UL 695, UL 696, UL 697, UL 698, UL 699, UL 700, UL 701, UL 702, UL 703, UL 704, UL 705, UL 706, UL 707, UL 708, UL 709, UL 710, UL 711, UL 712, UL 713, UL 714, UL 715, UL 716, UL 717, UL 718, UL 719, UL 720, UL 721, UL 722, UL 723, UL 724, UL 725, UL 726, UL 727, UL 728, UL 729, UL 730, UL 731, UL 732, UL 733, UL 734, UL 735, UL 736, UL 737, UL 738, UL 739, UL 740, UL 741, UL 742, UL 743, UL 744, UL 745, UL 746, UL 747, UL 748, UL 749, UL 750, UL 751, UL 752, UL 753, UL 754, UL 755, UL 756, UL 757, UL 758, UL 759, UL 760, UL 761, UL 762, UL 763, UL 764, UL 765, UL 766, UL 767, UL 768, UL 769, UL 770, UL 771, UL 772, UL 773, UL 774, UL 775, UL 776, UL 777, UL 778, UL 779, UL 780, UL 781, UL 782, UL 783, UL 784, UL 785, UL 786, UL 787, UL 788, UL 789, UL 790, UL 791, UL 792, UL 793, UL 794, UL 795, UL 796, UL 797, UL 798, UL 799, UL 800, UL 801, UL 802, UL 803, UL 804, UL 805, UL 806, UL 807, UL 808, UL 809, UL 810, UL 811, UL 812, UL 813, UL 814, UL 815, UL 816, UL 817, UL 818, UL 819, UL 820, UL 821, UL 822, UL 823, UL 824, UL 825, UL 826, UL 827, UL 828, UL 829, UL 830, UL 831, UL 832, UL 833, UL 834, UL 835, UL 836, UL 837, UL 838, UL 839, UL 840, UL 841, UL 842, UL 843, UL 844, UL 845, UL 846, UL 847, UL 848, UL 849, UL 850, UL 851, UL 852, UL 853, UL 854, UL 855, UL 856, UL 857, UL 858, UL 859, UL 860, UL 861, UL 862, UL 863, UL 864, UL 865, UL 866, UL 867, UL 868, UL 869, UL 870, UL 871, UL 872, UL 873, UL 874, UL 875, UL 876, UL 877, UL 878, UL 879, UL 880, UL 881, UL 882, UL 883, UL 884, UL 885, UL 886, UL 887, UL 888, UL 889, UL 890, UL 891, UL 892, UL 893, UL 894, UL 895, UL 896, UL 897, UL 898, UL 899, UL 900, UL 901, UL 902, UL 903, UL 904, UL 905, UL 906, UL 907, UL 908, UL 909, UL 910, UL 911, UL 912, UL 913, UL 914, UL 915, UL 916, UL 917, UL 918, UL 919, UL 920, UL 921, UL 922, UL 923, UL 924, UL 925, UL 926, UL 927, UL 928, UL 929, UL 930, UL 931, UL 932, UL 933, UL 934, UL 935, UL 936, UL 937, UL 938, UL 939, UL 940, UL 941, UL 942, UL 943, UL 944, UL 945, UL 946, UL 947, UL 948, UL 949, UL 950, UL 951, UL 952, UL 953, UL 954, UL 955, UL 956, UL 957, UL 958, UL 959, UL 960, UL 961, UL 962, UL 963, UL 964, UL 965, UL 966, UL 967, UL 968, UL 969, UL 970, UL 971, UL 972, UL 973, UL 974, UL 975, UL 976, UL 977, UL 978, UL 979, UL 980, UL 981, UL 982, UL 983, UL 984, UL 985, UL 986, UL 987, UL 988, UL 989, UL 990, UL 991, UL 992, UL 993, UL 994, UL 995, UL 996, UL 997, UL 998, UL 999, UL 1000, UL 1001, UL 1002, UL 1003, UL 1004, UL 1005, UL 1006, UL 1007, UL 1008, UL 1009, UL 1010, UL 1011, UL 1012, UL 1013, UL 1014, UL 1015, UL 1016, UL 1017, UL 1018, UL 1019, UL 1020, UL 1021, UL 1022, UL 1023, UL 1024, UL 1025, UL 1026, UL 1027, UL 1028, UL 1029, UL 1030, UL 1031, UL 1032, UL 1033, UL 1034, UL 1035, UL 1036, UL 1037, UL 1038, UL 1039, UL 1040, UL 1041, UL 1042, UL 1043, UL 1044, UL 1045, UL 1046, UL 1047, UL 1048, UL 1049, UL 1050, UL 1051, UL 1052, UL 1053, UL 1054, UL 1055, UL 1056, UL 1057, UL 1058, UL 1059, UL 1060, UL 1061, UL 1062, UL 1063, UL 1064, UL 1065, UL 1066, UL 1067, UL 1068, UL 1069, UL 1070, UL 1071, UL 1072, UL 1073, UL 1074, UL 1075, UL 1076, UL 1077, UL 1078, UL 1079, UL 1080, UL 1081, UL 1082, UL 1083, UL 1084, UL 1085, UL 1086, UL 1087, UL 1088, UL 1089, UL 1090, UL 1091, UL 1092, UL 1093, UL 1094, UL 1095, UL 1096, UL 1097, UL 1098, UL 1099, UL 1100, UL 1101, UL 1102, UL 1103, UL 1104, UL 1105, UL 1106, UL 1107, UL 1108, UL 1109,

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Base Knockouts — (4) $\frac{3}{4}$ " NPT



Side View



Rear View — Surface Mount Bracket



Wiring Compartment — Terminal Leads



Interior — Epoxy Resin Encapsulated Core