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How do you size a buck boost transformer

Table (1) BUCK-BOOST TRANSFORMERS (2) REPLACEMENT TRANSFORMER SPECIALIST (3) 400 HZ TRANSFORMERS (4) HIGH CURRENT TRANSFORMERS (5) MULTI TAP TRANSFORMERS (6) HEATING ELEMENT TRANSFORMERS (7) CENTER TAP TRANSFORMERS (8) 3 PH TO 1 PH TRANSFORMERS (9) 1 PH to 3 PH POWER CONVERTER (10) ISOLATION TRANSFORMERS (11) STEP UP TRANSFORMERS (12) STEP DOWN TRANSFORMERS (13) TAP SWITCH TRANSFORMERS (14) SCOTT T TRANSFORMERS (15) HIGH VOLTAGE TRANSFORMERS (16) DUAL SECONDARY TRANSFORMERS (17) DELTA - WYE TRANSFORMERS (18) WYE-WYE TRANSFORMERS (19) DELTA-DELTA TRANSFORMERS (20) WYE DELTA TRANSFORMERS (21) 120 VAC TRANSFORMERS (22) AVIONIC TRANSFORMERS (23) 400 HZ BUCK BOOST TRANSFORMERS (24) TRANSFORMERS FOR RECTIFIER APPLICATIONS (25) AEROSPACE TRANSFORMERS (26) THERMCO TRANSFORMERS (27) HIGH FREQUENCY TRANSFORMERS (28) SINGLE PHASE BUCK-BOOST (29) THREE PHASE BUCK BOOST (30) SINGLE PHASE HIGH CURRENT (31) THREE PHASE HIGH CURRENT (32) SINGLE PHASE ISOLATION TRANSFORMERS (33) THREE PHASE ISOLATION TRANSFORMERS (34) SINGLE PHASE MULTI TAP TRANSFORMERS (35) THREE PHASE MULTI TAP TRANSFORMERS (36) CONTROL TRANSFORMERS (37) TRANSFORMER ENCLOSURES (38) 400 HZ 1 PH ISOLATION TRANSFORMERS (39) 400 HZ 3 PH ISOLATION TRANSFORMERS (40) MOST POPULAR 1 PH BUCK BOOST (41) MOST POPULAR 3 PH BUCK BOOST (42) NEMA 4X TRANSFORMERS (43) NEMA 3R TRANSFORMERS (44) NEMA 1 TRANSFORMERS (45) OBSOLETE DIFFUSION FURNACE TRANSFORMERS (46) SHIELDED TRANSFORMERS (47) FUSE PROTECTED TRANSFORMERS (48) TRANSFORMERS FOR SOLAR PANELS (49) MVA TRANSFORMERS (50) NEMA 4X NON-PAINTED STAINLESS STEEL WALL MOUNT ENCLOSURES (51) VARIABLE TRANSFORMER ASSEMBLIES (52) TRANSFORMER WITH END BELLS (53) NEMA 12 TRANSFORMER FOR DUSTY ENVIRONMENT (54) SINGLE PHASE ENCAPSULATED TRANSFORMERS (55) SINGLE PHASE VENTILATED TRANSFORMERS (56) THREE PHASE ENCAPSULATED TRANSFORMERS (57) THREE PHASE VENTILATED TRANSFORMERS (58) TOTALLY ENCLOSED NON-VENTILATED SINGLE PHASE TRANSFORMERS (59) TOTALLY ENCLOSED NON-VENTILATED THREE PHASE TRANSFORMERS (60) ENCAPSULATED BUCK BOOST TRANSFORMERS (61) CE MARKING TRANSFORMERS (62) UL / CUL / CSA APPROVED TRANSFORMERS (63) TOROIDAL TRANSFORMERS (64) 1 MVA DRY TYPE TRANSFORMER (65) DRY TYPE MEDIUM VOLTAGE AUTO TRANSFORMER, 3 MVA, P/N 8407L (66) ALUMINUM FOIL REACTOR (67) 12 PULSE TRANSFORMER, 300 KVA (68) EXTRA LARGE INDOOR ENCLOSURE, P/N CP120 (69) DRY TYPE AUTO TRANSFORMER, 1000 KVA, P/N MG-04B (70) CLOSED DELTA TO OPEN DELTA TRANSFORMER (71) TRANSFORMER REPAIR (72) CUSTOM MACHINED PART FOR FERRITE CORE MATERIAL (73) TENV TRANSFORMERS (74) MG-XX DRY TYPE TRANSFORMERS (75) JE-XX TRANSFORMERS (76) SPLIT CORE TRANSFORMERS (77) THREE PHASE TENV MG-XX SERIES (78) THREE PHASE TENV JE-XX SERIES (79) SUBSTATION DRY TYPE TRANSFORMERS (80) LED TRANSFORMER (81) AVIATION GRADE TRANSFORMERS (82) CLASS 1, DIVISION 2, SINGLE PHASE TRANSFORMERS (83) ENCLOSURE FOR THREE PHASE PAD MOUNT TRANSFORMERS (84) FLOOR MOUNT TRANSFORMER ENCLOSURE (85) REPLACEMENT TRANSFORMER WITHIN 48 HOURS, WORLDWIDE (86) EXTRA ROBUST DUTY TRANSFORMERS (87) MG-XX SERIES LIQUID FILLED SUBSTATION TRANSFORMERS (88) REPLACEMENT TOROIDAL TRANSFORMER, 1000 VA, P/N JA-02 (89) AUDIO TRANSFORMER, 20 Hz to 30 kHz, P/N 19149 (90) ENCAPSULATED TRANSFORMERS (91) OEM TRANSFORMERS (92) SURGE SUPPRESSION TRANSFORMER (93) VFD TRANSFORMER (94) CUSTOM DESIGNED TRANSFORMERS (95) FERRITE CORE TRANSFORMERS (96) PROTO TYPE TRANSFORMERS (97) INDUCTION HEATING TRANSFORMERS (98) SURFACE MOUNT TRANSFORMER, P/N JA-05 (99) AUTOMATIC VOLTAGE REGULATOR (100) MICROPROCESSOR CONTROLLED VOLTAGE REGULATOR, 333 KVA, P/N PH-02 (101) (102) A buck-boost transformer is an electrical transformer with only one winding. In an buck-boost transformer, portions of the same winding act as both the primary and secondary. The winding has at least three taps where electrical connections are made. Buck-boost transformers have the advantages of often being smaller, lighter, and cheaper than typical isolation transformers, but buck-boost transformers have the disadvantage of not providing electrical isolation. Hence, buck-boost transformers are used in applications where electrical isolation is not a critical requirement. L/C Magnetics is a buck-boost transformer manufacturer. Buck-boost Transformers are very useful in step up or step down applications of voltages and currents. Celebrating 30 years in business Send us an email for a Free Quote. quote@lcmagnetics.com Tel: (714) 624 4740 Our engineers will respond within the hour. Buck-boost transformers are not a replacement for all isolation transformer requirements. L/C Magnetics can manufacture single phase or three phase buck-boost transformers up to 1000 KVA power rating. All units are custom designed and built to order. We have the proper tooling and winding machines to give you a fast turn around. L/C Magnetics can provide buck-boost transformers as an open core and coil unit or enclosed in an indoor enclosure with corrosion resistant powder coating. We can also install the transformer in a NEMA 4X enclosure or a stainless steel enclosure. An example of savings achieved by using a single phase 48 KVA power buck-boost transformer by boosting the output from 460 VAC to 480 VAC is shown below The above buck-boost transformer is 48 / 2 = 24 times smaller than the equivalent isolation transformer. The schematic of a single phase power auto transformer is shown below. The customer can purchase a cheaper 2 KVA buck-boost transformer instead of replacing the existing 48 KVA isolation transformer achieving the same results. A similar savings for a three phase buck-boost transformer is shown below. BOOST TRANSFORMER, 4.8 KVA Specifications: The schematic diagram of a 3 phase buck-boost transformer is shown below. There are situations where power supplied by the utility companies to the distribution transformer in a facility is either too high or too low from the nominal. This under voltage or over voltage condition has to be compensated. One solution is to replace the entire distribution transformer with a new one. This can be costly. Buck-boost transformers are very useful in such applications. The buck-boost Transformer is able to boost or buck the output voltage to the nominal value. The distribution transformer provides the necessary isolation, and buck-boost transformer remedies the voltage difference in the output voltage. This results in huge savings. The buck-boost transformers shown below do not provide the isolation between the primary and secondary winding. Please check with your electrician and city codes to see if an buck-boost transformer is suitable for your application. Click the photos for additional details. If these units do not meet your requirements, we will be glad to offer a redesigned single phase or a three phase buck-boost transformer. BUCK TRANSFORMER, 0.2 KVA, INPUT 220/230/240 VAC, OUTPUT 120 VAC P/N 19217-1 BOOST TRANSFORMER, 0.75 KVA, INPUT 230 VAC, OUTPUT 290/300 VAC, P/N 19023 BUCK TRANSFORMER, 1.2 KVA, INPUT 155 VAC, OUTPUT 120 VAC, P/N 19278 BUCK TRANSFORMER, 2 KVA, INPUT 220 VAC, OUTPUT 115 VAC, P/N 18279 BUCK TRANSFORMER, 2 KVA, INPUT 500 VAC, OUTPUT 250 VAC, P/N 19175 BUCK TRANSFORMER, 3 KVA, INPUT 480 VAC, OUTPUT 208 VAC, P/N 19008 BOOST TRANSFORMER, 3.3 KVA, INPUT 208 VAC, OUTPUT 220 VAC, P/N 19249N BOOST TRANSFORMER, 4.2 KVA, INPUT 198 VAC, OUTPUT 208 VAC, P/N 19277 BUCK TRANSFORMER, 4.8 KVA, INPUT 247 VAC, OUTPUT 220 VAC, P/N 19205 BUCK TRANSFORMER, 5 KVA, INPUT 248 VAC, OUTPUT 242 VAC, P/N 19035 BOOST TRANSFORMER, 5.5 KVA, INPUT 208 VAC, OUTPUT 220/230/240, P/N 18571 BUCK TRANSFORMER, 7.5 KVA, INPUT 138 VAC, OUTPUT 120 VAC, P/N 13243 BOOST TRANSFORMER, 8 KVA, INPUT 208 VAC, OUTPUT 240 VAC, P/N 18357 BUCK TRANSFORMER, 9.4 KVA, INPUT 250 VAC, OUTPUT 208 VAC, P/N 19128 BUCK TRANSFORMER, 10 KVA, INPUT 480 VAC, OUTPUT 450 VAC, P/N 18606N BUCK TRANSFORMER, 22.2 KVA, INPUT 277 VAC, OUTPUT 208 VAC, P/N 19274N BOOST TRANSFORMER, 2.1 KVA, INPUT 200 VAC, OUTPUT 240 VAC, P/N 19205N BOOST TRANSFORMER, 9 KVA, INPUT 240 VAC, OUTPUT 380 VAC, P/N 18836 BOOST TRANSFORMER, 11 KVA, INPUT 220 VAC, OUTPUT 400 VAC, P/N 19236 BUCK TRANSFORMER, 15 KVA, INPUT 528 VAC, OUTPUT 457 VAC, P/N 18769 BUCK TRANSFORMER, 20 KVA, INPUT 480 VAC, OUTPUT 208 VAC, P/N 19241 BOOST TRANSFORMER, 24 KVA, INPUT 200 VAC, OUTPUT 230 VAC, P/N 19222A BOOST TRANSFORMER, 25 KVA, INPUT 240 VAC, OUTPUT 480 VAC, P/N 19018N BUCK TRANSFORMER, 25 KVA, INPUT 480 VAC, OUTPUT 300 VAC, P/N 19185N BUCK TRANSFORMER, 25 KVA, INPUT 480 VAC, OUTPUT 230 VAC, P/N 19181N BUCK TRANSFORMER, 25 KVA, INPUT 600 VAC, OUTPUT 480 VAC, P/N 19072 BOOST TRANSFORMER, 28 KVA, INPUT 200 VAC, OUTPUT 400 VAC, 400 Hz, P/N 19198 BUCK TRANSFORMER, 30 KVA, INPUT 440 VAC, OUTPUT 176/220/264/330 VAC, P/N 19235 BOOST TRANSFORMER, 32 KVA, INPUT 240 VAC, OUTPUT 380/400/415/480 VAC, P/N 18867 BUCK TRANSFORMER, 40 KVA, INPUT 480 VAC, OUTPUT 380 VAC, P/N 19083N BUCK TRANSFORMER, 40 KVA, INPUT 380 VAC, OUTPUT 208 VAC, P/N 19188N BUCK TRANSFORMER, 48 KVA, INPUT 480 VAC, OUTPUT 460 VAC, P/N 18829 BOOST TRANSFORMER, 50 KVA, INPUT 208 VAC, OUTPUT 380 VAC, P/N 19218N BOOST TRANSFORMER, 50 KVA, INPUT 400 VAC, OUTPUT 480 VAC, P/N 19254 BOOST TRANSFORMER, 55 KVA, INPUT 480 VAC, OUTPUT 575 VAC, P/N 19179N BOOST TRANSFORMER, 56 KVA, INPUT 208 VAC, OUTPUT 220/230 VAC, P/N 18658N BOOST TRANSFORMER, 58 KVA, INPUT 380 VAC, OUTPUT 480 VAC, P/N 19055 BUCK TRANSFORMER, 60 KVA, INPUT 480 VAC, OUTPUT 330 VAC, P/N 18823 BUCK TRANSFORMER, 66 KVA, INPUT 480 VAC, OUTPUT 380 VAC, P/N 19063 BUCK TRANSFORMER, 72 KVA, INPUT 480 VAC, OUTPUT 460 VAC, P/N 19068 BUCK TRANSFORMER, 75 KVA, INPUT 415/427 VAC, OUTPUT 380 VAC, P/N 18832N3 BUCK TRANSFORMER, 75 KVA, INPUT 600 VAC, OUTPUT 480 VAC, P/N 19114B BUCK TRANSFORMER, 75 KVA, INPUT 480 VAC, OUTPUT 380 VAC, P/N 18832N BUCK TRANSFORMER, 75 KVA, INPUT 460/480/500 VAC, OUTPUT 208 VAC, P/N 18714B BUCK TRANSFORMER, 75 KVA, INPUT 480 VAC, OUTPUT 460 VAC, P/N 18872N BUCK TRANSFORMER, 75 KVA, INPUT 480 VAC, OUTPUT 400 VAC, P/N 18894N BUCK TRANSFORMER, 75 KVA, INPUT 240 VAC, OUTPUT 220 VAC, P/N 19002N BUCK TRANSFORMER, 77 KVA, INPUT 540/480 VAC, OUTPUT 440 VAC, P/N 18703N BUCK TRANSFORMER, 85.2 KVA, INPUT 480 VAC, OUTPUT 320 VAC, P/N 19212N BOOST TRANSFORMER, 100 KVA, INPUT 380 VAC, OUTPUT 460/480 VAC, P/N 19148N BUCK TRANSFORMER, 100 KVA, INPUT 380 VAC, OUTPUT 208 VAC, P/N 18714A BOOST TRANSFORMER, 100 KVA, INPUT 416 VAC, OUTPUT 460 VAC, P/N 19201N BOOST TRANSFORMER, 100 KVA, INPUT 240 VAC, OUTPUT 460 VAC, P/N 19197N BOOST TRANSFORMER, 110 KVA, INPUT 200 VAC, OUTPUT 208 VAC, P/N 18883N BOOST TRANSFORMER, 125 KVA, INPUT 208 VAC, OUTPUT 480 VAC, P/N 18819B BOOST TRANSFORMER, 125 KVA, INPUT 480 VAC, INPUT 485 VAC, P/N 19110N BOOST TRANSFORMER, 125 KVA, INPUT 400 VAC, OUTPUT 480 VAC, P/N 19252N BUCK TRANSFORMER, 148 KVA, INPUT 247 VAC, OUTPUT 208 VAC, P/N 18849N BOOST TRANSFORMER, 150 KVA, INPUT 480 VAC, OUTPUT 496 VAC, P/N 19106N BOOST TRANSFORMER, 150 KVA, INPUT 380/400/415 VAC, OUTPUT 456/480/504 VAC, P/N 17506B BOOST TRANSFORMER, 156 KVA, INPUT 37.6 VAC, OUTPUT 45.1 VAC, P/N 18838C BUCK TRANSFORMER, 200 KVA, INPUT 480/504 VAC, OUTPUT 440 VAC, P/N 18703AN BOOST TRANSFORMER, 200 KVA, INPUT 460VAC, OUTPUT 470 VAC, P/N 18808N BOOST TRANSFORMER, 240 KVA, INPUT 208 VAC, OUTPUT 220 VAC, P/N 19242 BOOST TRANSFORMER, 240 KVA, INPUT 208 VAC, OUTPUT 220 VAC, P/N 19242N BOOST TRANSFORMER, 263.5 KVA, INPUT 380/400/415 VAC, OUTPUT 456/480/504 VAC, P/N 17617 BUCK TRANSFORMERS, 305 KVA, INPUT 460 VAC, OUTPUT 440 VAC, P/N 18546 BUCK TRANSFORMER, 316 KVA, INPUT 480 VAC, OUTPUT 455 VAC, P/N 18837N BUCK TRANSFORMER, 381 KVA, INPUT 470 VAC, OUTPUT 440 VAC, P/N 18752N BOOST TRANSFORMER, 381 KVA, INPUT 480 VAC, OUTPUT 600 VAC, P/N 18596N BOOST TRANSFORMER, 600 KVA, INPUT 480 VAC, OUTPUT 600 VAC, P/N 18825N BUCK TRANSFORMER, 1.25 MVA, INPUT 480 VAC, OUTPUT 440 VAC, P/N 6112A BUCK TRANSFORMER, 2 MVA, INPUT 480 VAC, OUTPUT 440 VAC, P/N 6112B Celebrating 30 years in business Send us an email for a Free Quote. quote@lcmagnetics.com Tel: (714) 624 4740 Our engineers will respond within the hour. 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