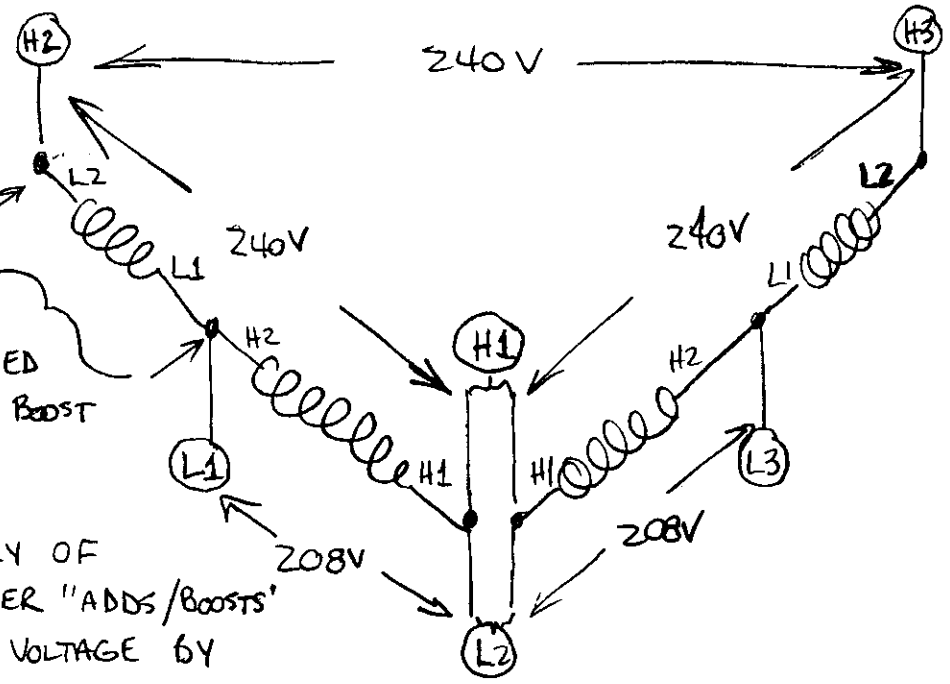
OPEN-DELTA BUCK/BOOST TRANSFORMER

WIRING AND SIZING GUIDE



THIS SHOWS A 32V BOOST WIRED ON A 208V/32V BOOST TRANSFORMER.

THE SECONDARY OF THE TRANSFORMER "ADDS/BOOSTS" THE PRIMARY VOLTAGE BY 32 VOLTS.

THE RATING OF THE TRANSFORMER IS CALCULATED BY TAKING THE "BOOST" VOLTAGE (I.E. 32V) AND MULTIPLYING BY THE CURRENT OF THE LOAD, PLUS A SAFETY FACTOR.

EXAMPLE: LARGEST MOTOR ON MACHINE = 7.5 HP WITH A FULL LOAD AMPS OF 21 AMPS AT 240V.

THIS WOULD SIZE THE TRANSFORMER AT

32 VOLTS (BOOST VOLTAGE) X 21 AMPS (FLA OF MOTOR) X 1.5 (SAFETY FACTOR)

= 1008 V.A.

THUS WE WILL USE A 1 KVA BUCK/BOOST TRANSFORMER

(L1) (L2) (L3) ARE THE INBOUND 208V POWER

(H1) (H2) (H3) ARE THE OUTBOUND 240V POWER

NOTE THAT ONLY 2 TRANSFORMERS ARE USED IN THIS "OPEN DELTA" CONFIGURATION.