

Example of formula of 3 phase current:

Current 3 phase: power in watts/voltage/.8/1.732= current for 3 phase only

Example:

Low Y : 5KW—120/208

5,000 watts/208=24.038 amps / .8 = 30.048 amps / 1.732 = 17.348 amps
output at 3 phase 208 volts

High Y: 5KW— 277/480

5,000 watts/ 480 = 10.416 amps / .8 = 13.02 amps / 1.732 = 7.517 amps
output at 3 phase 480 volts

Delta: 5KW—240

5,000 watts/ 240 = 20.83 amps / .8 = 26.04 amps / 1.732 = 15 amps output at
3 phase 240 Delta.