



LEESON MOTOR MODEL NUMBER NOMENCLATURE

All LEESON motors, both stock and custom, have a catalog number and a model number. The model number appears on the motor's nameplate and describes pertinent electrical and mechanical features of the motor. An example follows along with a listing of the various letters and positions used.

POSITION 1: U.L. PREFIX

- A = Auto protector. U.L. recognized for locked rotor plus run, also recognized construction (U.L. 1004)\*.
M = Manual protector. U.L. recognized for locked rotor plus run, also recognized construction (U.L. 1004)\*.
L = Locked rotor protector (automatic). U.L. recognized for locked rotor only, also recognized construction (U.L. 1004)\*.
C = Component recognition. (U.L. 1004) No protector.
U = Auto protector. U.L. recognized construction (UL1004). Motor/protector combination not UL recognized.
P = Manual protector. U.L. recognized construction (UL1004). Motor/protector combination not UL recognized.
T = Thermostat, not U.L. recognized.
N = No overload protection.

\*This applies only to 48, S56, and 56 frame designs through 1 HP, Open & TENV.

POSITION 2: (OPTIONAL)

- This position is not always used.
M = Sub-Fractional HP Motors.
Z = BISSC Approved.
Other = Customer Code

POSITION 3: FRAME

Table listing frame designations: 4 = 48 Frame, 6 = 56 Frame, 42 = 42 Frame, 143 = 143T Framei, 182 = 182T Frame, 184 = 184T Frame, 213 = 213T Frame, 215 = 215T Frame, 254 = 254T Frame, 256 = 256T Frame, 284 = 284T Frame, 286 = 286T Frame, 324 = 324T Frame, 326 = 326T Frame, 364 = 364T Frame, 365 = 365T Frame, 404 = 404T Frame, 405 = 405 T Frame, 444 = 444T Frame, 447 = 447T Frame, 449 = 449T Frame, 23 = 23 Frame, 30 = 30 Frame, 34 = 34 Frame, 36 = 36 Frame, 38 = 38 Frame, 39 = 39 Frame, 40 = 40 Frame, 43 = 43 Frame, 44 = 44 Frame, 53 = 53 Frame, 65 = 65 Frame

POSITION 4: MOTOR TYPE

- C = Cap. Start/Ind. Run
D = Direct Current
K = Cap. Start/Cap. Run
P = Permanent Split
S = Split Phase
T = Three Phase
B = Brushless DC
H = Hysteresis Sync.
R = Reluctance Sync.

Odd frequencies other than 50 Hz show synchronous speed code.

DC and special motors may have one, two, or three digits indicating motor speed rounded to the nearest hundred RPM.

EXAMPLE:

Table showing position numbers and sample model letters: Position No. 1 2 3 4 5 6 7 8 9 10, Sample Model No. A B 4 C 17 D B 1 A (A-Z)

POSITION 5: RPM

Table listing RPM values: RPM-Single Speed (34=3450, 28=2850, 17=1725, 14=1425, 11=1140, 9=950, 8=960, 7=720, 7=795, 6=580, 6=580) and RPM-Multi-Speed (24=2 and 4 Poles, 26=2 and 6 Poles, 82=2 and 8 Poles, 212=2 and 12 Poles, 46=4 and 6 Poles, 48=4 and 8 Poles, 410=4 and 10 Poles, 412=4 and 12 Poles, 68=6 and 8 Poles)

POSITION 6: ENCLOSURE

- D = Drip-Proof
E = Explosion-Proof TENV
F = Fan Cooled
N = TENV
O = Open
S = Splashproof
W = Weatherproof, Severe Duty, Chemical Duty, WASHGUARD - TEFC
X = Explosion-Proof TEFC
V = Weatherproof, Severe Duty, Chemical Duty, WASHGUARD - TENV

POSITION 7: MOUNTING

- B = Rigid base standard
C = "C" face - no base - NEMA
D = "D" flange - no base - NEMA
H = 48 frame - 56 frame mounting/shaft rigid
J = 48 frame - 56 frame mounting/shaft resilient
K = Rigid mount with "C" flange
L = Rigid mount with "D" flange
M = Motor parts - rotor and stator
R = Resilient base
S = Shell motor
T = Round body
Z = Special mounting

POSITION 8: SEQUENCE NUMBER

Number assigned as required when new designs with new characteristics are needed.

POSITION 9: MODIFICATION LETTER

Major modification letter. Used when revisions made in existing model will affect service parts.

POSITION 10: (OPTIONAL)

- A date code consisting of either A-Z, and two digits 00-99.
Letter when shown on nameplate indicates model has U.L. primary single phasing recognition. (Applies to 3 phase motors only.)
Code letters indicate manufacturing location:
A = Grafton, WI
B = Black River Falls, WI
C = Saukville, WI
E = Neillsville, WI
G = Lincoln, MO
P = West Plains, MO