MOTOR and WIRE RATING DATA

Resistors — Service Classifications and Recommendations

RESISTOR APPLICATION TABLE

The following table taken from NEMA rule IC1-13.80 is intended as a guide in specifying and designing resistors. The classifications recommended are those which experience has shown to be correct for the average installation. It is recognized that there will be exceptions.

Application	NEMA Class
BLOWERS	
Centrifugal	133-93
Constant Pressure	135-95
BRICK PLANTS	
Augers	135
Conveyors	135
Dry Pans	135
Pug Mills	135
BY PRODUCTS COKE PLANTS	
Door Machine	153
Leveler Ram	153
Pusher Bar	153
Valve Rev. Machines	153
CEMENT MILLS	
Conveyors	135
Crushers	145
Elevators	135
Grinders—Pulverizers	135
Kilns	135-95
Rotary Dryers	145-95
COAL AND ORE BRIDGES	
Bridge (C-H Recommends 162)	153
Closing	162
Holding	162
Trolley (C-H Recommends 162)	162 and 163
COAL MINES	
Car Hauls	162
Conveyors	135-155
Cutters	135
Crushers	145
Fans	134-93
Hoists—slope	172
vertical	162
Jigs	135
Picking Tables	135
Rotary Car Dumpers	153
Shaker Screens	135
COMPRESSORS	
Constant Speed	135
Varying Speed	
Centrifugal	93
Plunger Type	95
CONCRETE MIXERS	135
CRANES — GENERAL PURPOSE — SERVICE CLASS II ❷	
Bridge or Trolley — Sleeve Bearings	153
Roller Bearings	152
Hoist (C-H Recommends 152)	152 and 153
FLOUR MILLS	
Line Shafting	135
FOOD PLANTS	
Butter Churns	135
Dough Mixers	135

Application	NEMA Class
HOISTS — Winch	153
Mine Slope	172 ❶
Mine Vertical	162 ❶
Contractors Hoists	152
LARRY CARS	153
LIFT BRIDGES	152
MACHINE TOOLS	
Bending Rolls	163-164
Boring Mills	135
Bull Dozers	135
Drills	115
Gear Cutters	115
Grinders	135
Hobbing Machines	115
Lathes	115
Milling Machines	115
Presses	135
Punches	135
Saws	115
Shapers	115
METAL MINING	
Ball—Rod—Tube Mills	135
Car Dumpers—Rotary	153
Converters—Copper	154
Conveyors	135
Crushers	145
Tilting Furnace	153
PAPER MILLS	
Beaters	135
Calenders	154-92
PIPE WORKING	
Cutting and Threading	135
Expanding and Flanging	135-95
POWER PLANTS	
Clinker Grinders	135
Coal Crushers	135
Conveyors—Belt	135
Screw	135
Pulverized Fuel Feeders	135
Pulverizers—Ball Type	135
Centrifugal	134
Stokers	135-93
PUMPS	
Centrifugal	134-93
Plunger	135-95
RUBBER MILLS	
Calendars	155
Crackers	135
Mixing Mills	135
Washers	135

❶ See NEMA Standard IC 1-45.60.
❷ See NEMA Standard IC 1-42.01.