



COMMONLY REFERENCED CHARTS, Sub-Index

The 12 books in your Synchronizer CD Library contain literally hundreds of reference charts. For your convenience, we have assembled the most commonly used ones in this sub-index. TO RETURN TO THIS PAGE FROM A BOOK: The Index icon on the target page returns you to Page 1 of the Master Index. From there you can link back to this document.

CHART TOPIC	BOOK SUBJECT	PAGE
Approx. Full-Voltage Starting KVA of Unity Power Factor Synchronous Motors, Chart	Synchronous Motors	21
Auto-Transformer Induction Motor Starting (Closed Transition), Chart	Induction Motors	21
Babbitts, Composition of, Chart	Installation & Maintenance	30
Banbury Mixer, HP Requirements, Chart	Applications	43
Blowers, Starting/Pull-In/Pull-Out Torques, NEMA Recommendations, Chart	Synchronous Motors	28
Centrifugal Compressors, Torques, NEMA Recommendations, Chart	Applications	19
Wound Rotor Motor, Starting Currents at Various Steps of External Resistance in Secondary Circuit, Chart	AC Mtrs & Cntrls: Fundamentals	46
Chipping 1 Cord of Wood, HP Hours Required, Chart	Applications	52
Code Letter - KVA/HP at Locked Rotor, Full Voltage, Chart	Installation & Maintenance	9
Common Code Letters & SKVA/HP, Chart	Motor Starting: I & M	11
Common Induction Motor Synchronous Speeds, Chart	Induction Motors	8
Comparison of IEC/EN & NEC/NFPA Requirements for P-Type Motors, Chart	P-Type Motors	18
Comparison of Standards Between Major Countries, Chart	P-Type Motors	25
Comparison of the Degree of Protection Between IEC & NEMA, Chart	P-Type Motors	23
Compressors, Starting/Pull-In/Pull-Out Torques, NEMA Recommendations, Chart	Synchronous Motors	27
Dielectric Coefficients for Insulating Materials, Chart	Insulation	10
Dust Classifications, IEC & NEC/NFPA, Chart	P-Type Motors	21
EEx Suffixes, Codes, Descriptions, Plus IEC/EN & NEC Applications, Chart	P-Type Motors	22
Effect of Voltage on Power Factor, Chart	Induction Motors	6
Effect of Voltage On Efficiency, Induction Motors, Chart	Induction Motors	9
Enclosure Comparison Between IEC & NEMA, Chart	P-Type Motors	23
Engine-Type Generators, Description/App/Specs, Chart	Eng. Driven Generators	20
European Test Institutions, Authorized, Chart	P-Type Motors	26
Fan Load, Magnetic Drive Characteristics, Ampli-Speed, Chart	Adjustable Speed	9
Full Load Amperes of 3-Phase Motors, Chart	Motor Controls	15
Full Voltage Induction Motor Starting, Chart	Induction Motors	21
Full Voltage Starting Inrush Factors for AC Motors, Chart	Motor Controls	14
Gas & Vapor Classifications, Chart	P-Type Motors	18
Gas & Vapor Classifications, IEC/CENELEC, IEC/EN, & NEC/NFPA, Chart	P-Type Motors	21
Generator Reactances Table, Chart	Eng. Driven Generators	11
Grease Specifications, Below 5000 RPM, Chart	Installation & Maintenance	32
Harmonics, Connection & Grounded, Chart	Eng. Driven Generators	12
Hazardous Group Designations, Chart	P-Type Motors	21
HP vs Volts, Minimum Recommended Motor Ratings, Chart	Applications	5
IC Code Demonstration, Chart	P-Type Motors	24
IC & IP Codes of NEMA Enclosures, Chart	P-Type Motors	16



CHART TOPIC	BOOK SUBJECT	PAGE
IEC Ingress Protection Code (IP Code), Chart	P-Type Motors	23
Induction Motor Starting (Open Transition), Chart	Induction Motors	21
Inertia Factors for Different Load Applications, Chart	Synchronous Motors	15
Large HP Motors, Torque, KVA & Slip Characteristics, Chart	Applications	50
LCF, Sequence of Operation, Chart	P-Type Motors	11
Load, HP, RPM, Inertia, Slip, Load Torque & Pull-In Torque for Different Applications, Chart	Synchronous Motors	16
Max. Surface Temp. Classifications, IEC/NEC, Chart	P-Type Motors	20
Mill Drives, HP Requirements, Chart	Applications	43
Mills & Pulverizers, NEMA Recommended Torques, Chart	Applications	35
Motor & Load Torques for Cent. Fan - Motor Accel. Time, Chart	Synchronous Motors	13
Motor Starting Types, Characteristics In Percent Of Rated Starting Values, Chart	Motor Controls	16-17
Motor Thermal Capacity, Changes at Different Altitudes & Temperatures, Chart	Applications	6
Motor-Generator Sets, High Frequency, Characteristics, Chart	Applications	29
Motor-Generator Sets, NEMA Recommended Torques, Chart	Applications	31
Normal WK ² of Load at Various HP and RPM, Chart	AC Mtrs & Cntrls: Fundamentals	25
Packaged Generators, Description/App/Specs, Chart	Eng. Driven Generators	20
Part Winding Induction Motor Starting, Chart	Induction Motors	21
Percent Starting & Pull-In Torques - Starting KVA, Chart,	Synchronous Motors	20
Plant Loading & Power Factor, Chart	Synchronous Motors	8
Power Factor/Ratio KVAR/KW, Chart	Synchronous Motors	9
Power Requirements, 1- & 2-Stage Compressors, Chart	Applications	11
Pulp & Paper Mill Loads, Synchronous Motor Characteristics, Chart	Applications	51
Pulp & Paper, Starting/Pull-In/Pull-Out Torques, NEMA Recommendations, Chart	Synchronous Motors	29
Pump Torques, NEMA Recommendations, Chart	Applications	24
Pumps, Starting/Pull-In/Pull-Out Torques, NEMA Recommendations, Chart	Synchronous Motors	29
Reactor Induction Motor Starting, Chart	Induction Motors	21
Reciprocating Compressors, Torques, NEMA Recommendations, Chart	Applications	11
Rotary Compressors, Torques, NEMA Recommendations, Chart	Applications	16
SAFUSE 180 Motor Controls, Maximum HP Ratings, Chart	Motor Controls	24
Short Circuit vs Time, Chart	Eng. Driven Generators	13
Sine Wave/Harmonic, Chart	Eng. Driven Generators	13
Sintering Fans, NEMA Torque Recommendations, Chart	Applications	59
Squirrel Cage Motors, Normal WK ² Values, NEMA Recommendations, Chart	AC Mtrs & Cntrls: Fundamentals	45
Standard High-Speed Generators, Description/App/Specs, Chart	Eng. Driven Generators	20
Star-Delta Induction Motor Starting, Chart	Induction Motors	21
Starting, Auto-Transformer (Closed Transition), Chart	Motor Controls	16-17
Starting, Full Voltage, Chart	Motor Controls	16-17
Starting (Open Transition), Induction Motor, Chart	Induction Motors	21
Starting, Part-Winding, Chart	Motor Controls	16-17
Starting, Reactor or Resistor, Chart	Motor Controls	16-17
Starting, Wye-Delta, Chart	Motor Controls	16-17



CHART TOPIC	BOOK SUBJECT	PAGE
Synchronous & Induction Motor Applications by HP and RPM, Chart	Synchronous Motors	25
Telephone Influence Factor Curve, Chart	Eng. Driven Generators	13
Temperature Rises, Armature Windings, NEMA Chart	Insulation	41
Temperature Rise Standards for Large Induction Motors, Chart	Insulation	59
Two-Speed, Constant-Torque Speeds & Ratings, Chart	Induction Motors	23
Unity, Lagging & Leading Power Factors, Chart	Power Factor	11
Voltage Service Types for Engine Driven AC Generators, Chart	Eng. Driven Generators	21
Wound Rotor Motor, Starting Torque & KVA for Centrifugal Pump or Compressor, Chart	AC Mtrs & Cntrls: Fundamentals	47
Wound Rotor Motor, Starting Torque & KVA for Constant Torque Load, Chart	AC Mtrs & Cntrls: Fundamentals	47
Wound Rotor Motor, Starting Torque & KVA for Loaded Recip. Compressor, Chart	AC Mtrs & Cntrls: Fundamentals	47
Wound Rotor Motor, Starting Torque & KVA for Unloaded Recip. Compressor, Chart	AC Mtrs & Cntrls: Fundamentals	47
Wound Rotor Motor, Torque Curves at Various Steps of External Resistance in Secondary Circuit, Chart	AC Mtrs & Cntrls: Fundamentals	46

