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Cable selection chart for 3- phase motors pdf

Selecting the three-phase motor capacity in HP. Then our cable size calculator will give you the suitable internal control cable size, internal power cable size, panel to auto outbound cable size etc. The reset button is used to clear the values in the field. This 3 phase motor cable size calculator is developed based on my practical experience. 3 phase motor cable size calculator was developed for designing the three-phase electric motors starter's materials such as internal cable wiring, outbound cable calculation, required cable gland size, cable connection size, overload relay size, circuit breaker, MCCB size, MPCB size, cable air size, and the terminal block size for all electric cars. You can also get the amps of the car. Cable rating chart: Check out the table of cable rating for PVC insulated armored cable and non-armored cable. Cable rating graph size of cable mm² Cable Diameter (mm) Non-SWG SWG 1.5 2.9 20 18 2.5 3.53 26 24 4.4 36 31 6 4.68 45 41 10 5.98 61 56 16 6.95 81 73 25 8.7 106 97 35 10.08 130 119 50 11.8 160 147 70 13.5 200 180 95 115.7 240 219 120 17.4 280 257 150 19.3 320 295 180 21.5 365 333 240 24.6 430 393 300 300 300 27.9 500 451 400 30.8 610 523 500 33.8 710 – 630 37.6 820 – Cable size calculation formula: The cable size is equal to the 1.5 times of the full freight stream of the motor/cargo. This the cable rating formula can be written as, Cable Size = 1.5 x Full load current. Example: Let's calculate required cable size for 5.5kW/7.5HP motor operated at 415V, 0.86pf. From our cable size calculator the full load stream of the 5.5kW motor is 10A. Cable size = 1.5 x 10 = 15 A Hence, the required cable will be able to carry minimum 15A stream. Watching the cable current rating Chart, 2.5Sgmm copper has the ability to carry 18 Amps, cation 2.5sqqm is suitable for 5.5kW/7.5HP auto note that, we did not include the voltage drop over the cable. 3 phase motor cable size, Contactor size, Starter selection chart: Here, we have collected for cable size for all rating motor such as, 0.37kW/0.5HP, 0.55kW/0.75HP, 0.75kW/1.0HP, 1.1kW/1.5HP, 1.5kW/2.0HP, 2.2kW/3HP, 3.7kW/5HP, 5.5kW/7.5HP, 7.5kW/10HP, 9.3kW/12.5HP, 11kW/15HP, 15kW/20HP, 18.5kW/25HP, 22kW/30HP, 30kW/40HP, 37kW/50HP, 45kW/60HP, 55kW/75HP, 75kW/100HP, 90kW/120HP, 110kW/150HP, 132kW/175HP, and 150kW/200HP. Learn More: Hp to MVA Conversion Calculator 0.5HP Motor: 0.5HP Motor cable Size, Contactor Size, Relay Size Chart Description Size Price Check Motor kW: 0.37/0.5HP Amazon Full Load Current-1ph 1 Full Load Current-3ph 0.6 DOL Starter (recommended) MPCB/MCB 1.6A Amazon Overload Relay Range 0.75 to 1.1 Amazon Contactor Size – AC3 9A Amazon Max. Backup fuse 4 Required cable Size 1.5 Sgmm Amazon Recommended Cable 2.5Sgmm Amazon Terminal Block 6A Amazon Cable Lug Size 2.5Sgmm Amazon Crimping size – Hand 2.5 Sgmm Amazon Starter Wiring 1.5 Sgmm Amazon Starter Power Wiring 2.5 Sgmm Amazon Cable Klier Grootte 16MM Amazon Cable The 100MM Amazon Amazon Motor Cable, Gland, Lug, Contactor Selection Chart: Description Size Price Check Motor kW/HP: 0.55/0.75 Amazon FLA Single phase 1.3 FLA Three phase 0.76 DOL Starter Recommended DOL MPCB 2.4 A Amazon Overload Relay Range 0.75 – 1.1 A Amazon Contactor Size 6A Amazon Max. Backup fuse 4 Required cable Size 3Cx1.5 Sgmm Amazon Recommended Cable 2.5Sgmm Amazon Terminal Block 6A Amazon Cable Lug Size 2.5Sgmm Amazon Crimping tie 2.5 Sg Amazon Starter Control Wiring 1.5 Sgmm Amazon Starter Power Wiring 2.5 Sgmm Amazon Cable Gland Size 16MM Amazon Cable Tie 100MM Amazon Learn More: kVAR to MVAR Conversion Calculator 0.75kW/1HP Motor Cable, Gland, Lug, Contactor Selection Chart: 1 HP Motor Cable Size Chart, Contactor Size, Relay Size Description Size Price Check Motor kW/HP : 0.75/1 Amps Single phase 3.8 Amazon Amps Three phase 1.3 Amazon DOL Starter (recommended) DOL Amazon MPCB 2.4 Amazon Overload Relay Range 1.1 to 1.6 Amazon Contactor Size 6A Amazon Max. Backup fuse 6 Required cable Size 1.5 Sgmm Amazon Recommended Cable 2.5Sgmm Amazon Terminal Block 6A Amazon Cable Lug Size 2.5Sgmm Amazon Crimping tie 2.5 Sg Amazon Starter Control Wiring 1.5 Sgmm Amazon Starter Power Wiring 2.5 Sgmm Amazon Cable Gland Size 16mm Amazon Cable Tie 100MM Amazon 1.1kW/1.5HP Motor Cable, Gland, Lug, Contactor Selection Chart: 1.5 HP Motor Cable Size Chart, Contactor Size, Relay Size Details Size Price Check Motor kW/HP: 1.1/1.5 FLA Single phase 5.7 Amazon FLA Three phase 1.9 Amazon DOL Starter DOL Amazon MPCB 2.4 A Amazon Overload Relay Range 1.5 to 3A Amazon Contactor Size 6A Amazon Max. Backup fuse 4 Amazon Required cable Size 1.5 Sgmm Amazon Recommended Cable 2.5Sgmm Amazon Terminal Block 6A Amazon Cable Lug Size 2.5Sgmm Amazon Crimping das 2.5 Sg Amazon Starter Control Bedrading 1.5 Sgmm Amazon Starter Power Bedrading 2.5 Sgmm Amazon Kabel Klier Grootte 16mm Amazon Kabel Das 100MM Amazon Leer Meer: Skakel Volts te pV, nV, mV, Mikro Volts, kV, MV, GV Sakrekenaar 1.5kW / 2HP Motor kabel, Klier, Lug, Kontaktor Seleksie Grafiek: 2 HP Motor kabel grootte Grafiek, Kontaktor Grootte, Aflos Grootte Besonderhede Grootte Prys Check Motor kW / HP: 1.5kW / 2HP Amazon FLA Enkelfase 7.6 Amazon FLA Drie fase 2.6 Amazon DOL Starter (aanbeveel) DOL Amazon MPCB 3.2 'n Amazon Oorlading Aflos Reeks 1.5 om 3.2A Amazon Kontaktor Grootte 12A Amazon Max. Friends versmelt10A Vereis kabel grootte 1.5 Sgmm Amazon aanbeveel kabel 2.5Sgmm Amazon Terminale Blok 10A Amazon kabel lug grootte 2.5sqqm Amazon krimp das 2.5 VK Amazon Begin Beheer Bedrading 1.5 Sgmm Amazon Voorgereg Power Bedrading 2.5 Sgmm Amazon Kabel Klier Grootte 16mm Amazon Kabel Das 100MM Amazon 2.2kW / 3HP Motor kabel , Klier, Lug, Kontaktor Seleksie Grafiek: 3 HP Motor kabel grootte grafiek, Kontaktor Grootte, Aflos grootte besonderhede Grootte Prys Check Motor kW / HP: 2.2 / 3 FLA Enkelfase 11.1 Amazon FLA Drie fase 4 Amazon DOL Starter DOL Amazon MPCB 6 'n Amazon Oorlading Aflos Reeks 3.2A om 5A Amazon Kontaktor Grootte 16A Amazon Friends fuses 16A Required cable size 1.5 Sgmm Sqmm 2.5Sgmm Amazon Terminal Block 10A Amazon Cable Lug Size 2.5Sgmm Amazon Crimping tie 2.5 Sg Amazon Starter Control Wiring 1.5 Sgmm Amazon Starter Power Wiring 2.5 Sgmm Amazon Cable Gland Size 16MM Amazon Cable Tie 100MM Amazon Learn More: Mobile Charger Power Consumption Calculation 3.7kW/5HP Motor Cable, Gland, Lug, Contactor Selection Chart: 5 HP Motor Cable Size Chart, Contactor Size, Relay Size Details Size Price Check Motor kW/HP: 3.7/5 FLA Single phase 18.7 FLA Three phase 6.4 Amazon DOL Starter DOL Amazon MPCB 8A Amazon Overload Relay Range 5A to 8A Amazon Contactor Size 16A Amazon Max. Backup fuse 16A Required cable Size 2.5 Sgmm Amazon Recommended Cable 2.5Sgmm Amazon Terminal Block 10A Amazon Cable Lug Size 2.5Sgmm Amazon Crimping tie 2.5 Sg Amazon Starter Control Wiring 1.5 Sgmm Amazon Starter Power Wiring 2.5 Sgmm Amazon Cable Gland Size 19mm Amazon Cable Tie 100MM Amazon 5.5kW/7.5HP Motor Cable , Gland, Air, Contactor Selection Chart: Details Size Price Check Car kW/HP: 5.5/7.5 FLA Single Phase 28.3 FLA Three-Phase 9.7 DOL Starter DOL MPCB 16A Overload Relay Series 10A to 13A Contactor Size 25A Max. Backup Fuse 25A Required Cable Size 2.5Sqmm Recommended Cable 2.5Sqmm Terminal Block 16A Cable Air Size 2.5Sqmm Shrink Tie 2.5 VK Starter Control BedRad 1.5 Sgmm Amazon Starter Power Wiring 2.5 Sgmm Cable Gland Size 19mm Leather More: VAR to kvar Conversion Calculator 7.5kW/10HP Motor Cable, Gland, Air, Contactor Selection Chart: Details Size Price Check Car kW/HP: 7.5/10 FLA Single Phase 28.3 FLA Three Phase 13 DOL Starter DOL MPCB 16A Overload Relay Series 10 to 13A Contactor Size 32A Max. Backup Fuse 32A Requires Cable Size2.5Sqmm Recommended Cable 4Sqmm Terminal Block 25A Amazon Cable Air Size 4Sqmm Shrink Tie 4 Sq Starter Control Wiring 1.5 Sgmm Amazon Starter Power Wiring 4 Sgmm Cable Gland Size 22mm 9.3kW/12.5HP Car Cable Cable , Gland, Air, Contactor Selection Chart: Details Size Price Check Car kW/HP: 9.3/12.5 FLA Three Phase 17 DOL Starter DOL MPCB 20A Overload Relay Series 16A to 22A Contactor Size 32A Max. Backup Fuse 32A Requires Cable Size 4Sqmm Recommended Cable 4Sqmm Terminal Block 25A Amazon Cable Lug Size 2.5Sqmm Shrink Tie 2.5 Sq Starter Control Wiring 1.5 Sgmm Amazon Starter Power Wiring 4 Sgmm Cable Gland Size 22mm 11kW/15HP Car Cable, Air, Contactor Selection Chart: Details Size Price Check Motor kW/HP: 11/15 FLA Single Phase 19 FLA Three Phase 19 DOL Starter Star/Delta MPCB 25 An Overload Relay Series 18A to 25A Contactor Size 32A Max. backup fu. 32A Requires Cable Size 4 Sgmm Recommended Cable 4Sqmm Terminal Block 6A Amazon Cable Air Size 2.5Sqmm Shrink Tie 2.5 Sq VK Starter Control Wiring 1.5 Sgmm Amazon Starter Power Wiring 2.5 Sgmm Leather More : Single Phase Car Capacitor Calculation Calculator 15kW/20 Gland, Air, Contactor Selection Chart: Details Size Price Check Car kW HP: 15 / 20 FLA Enkelfase 1.3 FLA Driefase 26 Ster delta Voorgereg Ster / Delta MPCB 32A Oorlading Aflos Reeks 23A - - Hoof kontaktor size 32 Delta Kontaktor Size 32 Star Kontaktor Size 16A Max. Friends fuses 63A Vereis cable size 6Sqmm Exposed Cable 6Sqmm Terminal Block 32A Amazon Cable Lug Size 6Sqmm Shrinkage das 6Sqmm Star/Delta MPCB 63A Ear Charge Discharge Series 47 - 57A Hoof kontaktor Size 65 Delta Kontaktor Size 65 Star Kontaktor Size 32 Max. Friends fuses 125A Vereis cable size 35Sqmm Recommended Cable 2RX25Sqmm Terminal Block 125A Amazon Cable Lug Size AL x 25Sqmm Shrinkage Tie 16MX25MM Pregereg Management Wiring 1.5 Sgmm Amazon Pregereg Krag Wiring 35Sqmm Copper Flex Cable Gland Size 29MM Learn More: Watt to kWh Call Sakrekenaar | Convert W to kWh 37.5kW/50HP Motor Cable, Gland, Lug, Contactor Selection Chart: Details Size Price Check Motor kW/HP: 37.5/50 FLA Three phase 64.3 DOL Starter Star/Delta MCCB 63A to 125A Overload Relay Range 62 – 73A Main Contactor Size 70A Delta Contactor Size 70A Star Contactor Size 32A Max. Backup fuse 125A Required cable Size 50Sqmm Copper or 2Rx35Smm AL Recommended Cable 50Sqmm Copper Terminal Block 125A Amazon Cable Lug Size 50Sqmm Copper Crimping tie 35MMx50MM Starter Control Wiring 1.5Sqmm Amazon Starter Power Wiring 2Rx35Sqmm Cable Gland 32MM 45kW/60HP Motor Cable, Gland, Lug, Contactor Selection Chart: Details Size Price Check Motor kW/HP: 45kW/60HP FLA Three phase 78.3 Star/Delta Starter Star/Delta MCCB 125A Overload Relay Range 70 – 95A Main Contactor Size 75 Delta Contactor Size 75 Star Contactor Size 45 Max. Backup fuse 160A Required cable Size 50Sqmm Copper or 2Rx35Sqmm Recommended Cable 2Rx50Sqmm , AL Terminal Block 160A Amazon cable lug size AL Shrinkage Tie 35Mx 50MM Pregereg Management Wiring 1.5Sqmm 1.5Sqmm Aanvangskrag Bedrading 1Rx35Sqmm Hoof & amp; amp; Delta Kabel klier Grootte 35MM Leer Meer: kVAR te MVAR Omskakeling Sakrekenaar 55kW / 75HP Motor kabel, Gland, Lug, Kontaktor Seleksie Grafiek: Besonderhede Grootte Prys Check Motor kW / HP: 55kW / 75HP FLA Drie fase 90 Fase Huidige 52.0 DOL Starter Star / Delta MPCB 160A Oorlading Aflos Reeks 85 - 105A Hoof kontaktor grootte 75A Delta Kontaktor Grootte 75A Ster Kontaktor Grootte 45A Max. 160A Vereis kabel grootte 70Sqmm Koper of 2Rx50sqmm AL aanbeveel kabel 2Rx50sqmm AL Terminale Blok 160A Amazon kabel lug grootte 50Sqmm Krimp das 35Mx 50MM Voorgereg Beheer Bedrading 1.5Sqmm Amazon Voorgereg Power Bedrading 2Rx50Sqmm, Cu, Flexi Kabel klier Grootte 35MM 75kW / 100HP Motor kabel, Klier, Lug, Kontaktor Seleksie Grafiek: Besonderhede Grootte Prys Check Motor kW / HP : 75kW/100HP FLA Three phase 132 Phase Current 76.2 DOL Starter Star/Delta MCCB 250A Overload Relay Range 132-170A Main Contactor Size 140A Delta Contactor Size 140A Star Contactor Size 70A Max. Backup fuse 250A Required cable Size 2Rx70Sqmm Al Recommended Cable 2Rx70Sqmm Al Terminal Block 250A Amazon Cable Lug Size 70Sqmm, Ring type Crimping tie 50MMx70MM Starter Control Wiring 1.5Sqmm Amazon Starter Power Wiring 50Sqmm Copper Flex cable gland Size 40MM Learn More: kVA to kVAR Conversion Calculator 90kW/125HP Motor Cable, Gland, Lug, Contactor Selection Chart: Details Size Price Check Motor kW/HP: 90kW/125HP FLA Three phase 155 DOL Starter MCCB 250A Overload Relay Range 115 – 180A Main Contactor Size 170A Delta Contactor Size 110A Max. Backup fuse 400A Required cable Size ALx2Rx95Sqmm Recommended Cable ALx2Rx120Sqmm Terminal Block 250A Amazon Cable Lug Size 120Sqmm Crimping tie 95MMx125MM Starter Control Wiring 1.5Sqmm Amazon Starter Power Wiring 70Sqmm Copper Flex Cable gland Size 40MM 110kW/ 150HP Motor Cable, Gland, Lug, Contactor Selection Chart: Details Size Price Check Motor kW/HP: 110kW/150HP FLA Three phase 178 DOL Starter MCCB 400A Overload Relay Range 160 – 250A Main Contactor Size 205A Delta Contactor Size 205A Star Contactor Size 110A Max. Backup fuse 400A Required cable Size 2Rx120Sqmm Recommended Cable 2Rx150Sqmm Terminal Block 400A Amazon Cable Lug Size 150Sqmm Crimping tie 120MMx150MM Starter Control Wiring 1.5Sqmm Amazon Starter Power Wiring 90Sqmm Copper Flex Cable gland Size 44MM Learn More: Mobile Charger Power Consumption Calculation 132kW/175HP Motor Cable, Gland, Lug, Contactor Selection Chart: Details Size Price Check Motor kW/HP: 132kW/175HP FLA Three phase 233.5 DOL Starter MCCB 400A Overload Relay Range 200 – 320 Main Contactor Size 250A Delta Contactor Size 250A Star Contactor Size 150A Max. Backup fuse 400A Required cable Size AL , 2Rx150Sqmm Aanbeveel kabel AL, 2Rx150Sqmm Terminale Blok 400A Amazon Kabel Lug Grootte 150Sqmm Krimp das 120MX150MM Voorgereg Beheer Bedrading 1.5Sqmm Starter Power Bedrading 95Sqmm koper Flex Kabel klier Grootte 44MM 150kW / 200HP Motor kabel, Gland, Lug, Selection Chart: Details Size Price Check Car 150kW/200HP FLA Three phase 259.5 DOL Starter MCCB 400A Overload Relay Series 250 - 400A Main Contactor Size 300 Delta Contactor Size 300 Star Contactor Size 170 Max. Backup Fuse 400A Required Cable Size 2Rx150Sqmm Cable2Rx185Sqmm Terminal Block 400A Amazon Cable Air Size 185Sqmm Shrink Tie 150MX185MM Starter Control Wiring 1.5Sqmm Amazon Starter Power Wiring 120Sqmm Cable Gland Size 50MM Leather More: Hp to MVA Conversion CalculatorHope all the data will help you. You.