

DIY 1000W AC Voltage Regulator, BT136 TRIAC

Category: Electronic

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Achieve total control over your workshop machinery with the 1000 Watt AC dimmer circuit featuring the BT136 TRIAC. This professional-grade regulator is designed for 220V applications, allowing you to fine-tune the RPM of angle grinders and bench grinders. Explore our detailed component analysis and safety comparisons to build your own high-efficiency power controller today.

Danfoss hermetic compressors capillary sizing chart

Category: Refrigeration

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DENFOSS COMPRESSOR				
Captivity Length	Captivity NO	Oil	Hp (Inches Water)	Compressor No
4 Feet	1.26	150	1/44	
4 Feet	1.26	150	1/22	122.5A
4 Feet	1.26	150	1/12	112.5B
4 Feet	1.26	150	1/4	104.5B
6 Feet	1.26	175	1/16	PW5.5K7
7.5 Feet	1.26	175	1/10	TL5B
7.5 Feet	1.26	200	1/10	TL4B
7.5 Feet	1.26	200	1/8	PW1.5K9
7.5 Feet	1.26	200	1/6	PW1.5K11
7.5 Feet	1.26	200	1/4	TR5.5B
8 Feet	1.31	250	1/8	TL5A
8 Feet	1.31	250	1/6	PW5.5K11
9 Feet	1.31	250	1/4	PW5.5K9
9 Feet	1.31	350	1/4	TR5.5B
10 Feet	1.31	375	1/4	TR5.5A
10 Feet	1.31	375	1/2	PW5.5A
10 Feet	1.31	500	1/2	PW5.5B
10 Feet	1.31	500	1/4	TR5.5B

Technicians match Danfoss compressors to systems using precise capillary tube lengths from 4 to 10 feet, paired with specific oil charges like 150 ml for 1/12 HP models. Capillary numbers 0.26 to 0.31 ensure optimal refrigerant flow in LBP setups.

Spot Welding Machine Circuit

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Fabricators rely on the classic spot welding machine circuit featuring a half-wave rectifier for reliable AC-to-DC conversion. A heavy-duty step-down transformer boosts current for nugget formation, while an adjustable timer controls squeeze, weld, and hold phases precisely.

Mitsubishi Electric PUHY-P250YKH-TH

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The Mitsubishi Electric PUHY-P250YKH-TH stands out as a powerful 25HP outdoor unit in the City Multi VRF series, designed for large-scale commercial HVAC applications. Featuring R410A refrigerant, it delivers 22.4 kW nominal cooling and 25.0 kW heating capacity with top-tier efficiency.

Compressor, FN66Q11G, 1/6 hp

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The Matsushita FN66Q11G is a highly reliable 1/6 hp reciprocating compressor designed for low back pressure applications. Operating on 220-240V at 50Hz, this R12-based unit was manufactured in Singapore and is known for its long-lasting performance in domestic refrigerators. Learn about its cooling capacity, amperage, and modern replacement options in this comprehensive technical guide.

Copeland CS16K6E-PFZ-155 Compressor

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The Copeland CS16K6E-PFZ-155 is a high-efficiency hermetic reciprocating compressor designed for commercial refrigeration. Operating at 220-240V and 50Hz, this 1.25 HP powerhouse is optimized for R404A and R507 refrigerants. Known for its durability in medium-temperature applications, it features POE oil and thermal protection, making it a reliable choice for cold rooms and professional cooling systems.

Compressor, LG, BMH089NHMV, 1/4 hp

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The LG BMH089NHMV is a 1/4 HP inverter compressor utilizing R600a refrigerant for high-efficiency refrigeration. With a variable speed range of 60-225 Hz and a displacement of 8.9 cc/rev, this BLDC motor unit provides precise cooling capacity up to 188W, making it ideal for modern household and commercial LBP applications.

Compressor, Embraco, PW 5.5 K11W, 1/6 hp

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The Embraco PW 5.5 K11W is a 1/6 HP Low Back Pressure (LBP) compressor designed for R12 refrigeration systems. Known for its reliability and dual-frequency 50/60Hz operation, this Brazilian-made unit delivers 133W of cooling capacity. Explore our deep dive into its electrical specifications, performance tables, and comparison with modern HVAC cooling alternatives.

Embraco EGAS70HLC Compressor

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The Embraco EGAS70HLC stands out as a reliable hermetic piston compressor designed for low back pressure (LBP) applications using R134a refrigerant. Rated at 220-240V 50Hz single phase, it delivers around 61W cooling capacity with 1.5A LRA and RSIR starting. Built in Brazil by J.G Therm, model C 796173 ensures durable performance in freezing units from -30°C to -10°C.

1N4728, 1N4729, 1N4730, 1N4731, 1N4732, 1N4733, 1N4734, 1N4735, 1N4736, 1N4737, Zener diode

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Zener diodes like the 1N4728A thru 1N4737A series deliver reliable voltage regulation from 3.3V to 7.5V at 1W power. Engineers rely on these for stabilizing circuits in power supplies and protection setups. Check the full voltage chart and specs below for your next project. (55 words)