

9. RMS Output Voltage Limit

Circuit board mounted variable-resistance trimmer in series with manual control potentiometer. Allows the user to limit the output voltage to the connected load at maximum potentiometer setting. Not applicable to units controlled by external analog signal.

11. Milliamp Control

Circuitry integral to main control board that allows output voltage to load to be controlled by an external analog signal (milliamps or D.C. voltage) in a closed-loop system. Voltage output from the power control is proportional to the analog signal input (elongated S-curve). Multiturn SPAN and GAIN trimmers provided for field calibration/adjustment of signal response change.

12. Output Current Limit

Output voltage from the power control is varied to keep load current at or below adjustable limit. Includes current transformer. Note: current limit is not a substitute for proper control sizing, nor an alternative to 2-millisecond fuses for short-circuit protection.

13. RMS Output Voltage Regulation

Output voltage variations are limited to $\pm 1\%$ for input voltage variations of up to $\pm 10\%$. Maximum regulated output voltage may not be greater than 75% of minimum input voltage.

14. Isolated Chassis Construction

Isolated-case power semiconductors are used to provide electrically isolated heatsink construction, which is required for mounting power controls in non-vented enclosures. Available through 80 Amps. See page 43, note 7 before installing any control in non-vented enclosures.

Thermistor Control

Control circuit accepts direct input from temperature-sensing stainless thermistor probe, and automatically adjusts power control output voltage to maintain load temperature at level selected on temperature set potentiometer in closed-loop control scheme. Available temperature ranges: 90°C and 90-240°C. Thermistor probe, 3 ft. of cable and set-point potentiometer supplied with this option.

19. Soft Start

Output voltage to the connected load is ramped from 0 to potentiometer-selected level over 1/2 second time period after control actuation to reduce inrush currents. Operates on closure of On/Off switch in control potentiometer and main power activation; must be reset by opening that same switch or removing main power before operating again.

20. Optically Isolated ma. External Control Card

Circuit card for field retrofit of manually operated power controls for automatic control in response to external analog signal. Optically isolated permits use in open or closed-loop control schemes. Voltage output from the power control is proportional to the analog signal input (elongated S-curve). Multiturn SPAN and GAIN trimmers provided for field calibration/adjustment of signal response range.

21. Optically Isolated ma. Control

Optically isolated circuitry integral to main control board that allows output voltage to load to be controlled by an analog signal in open or closed-loop system.

22. Retrofit

11D/18D construction at 120 and 240 VAC to 30 amps as built prior to 8/90. 18DZ, all voltages, to 30 A. prior to 11/96. 18D-H, 120/240, 10A prior to 1/99

24. Heatsink Overtemp Switch

Temperature sensor mounted to heatsink chassis with integral switch that changes state if heatsink temperature exceeds maximum temperature exceeds maximum allowable temperature. Available either to turn off control or to drive external indicating signal.

27. Alternate Control Voltage

Actuation by control voltage other than the product standard.

28. 120V Pilot

120 VAC Pilot voltage signal used to actuate control. 220 VAC also available.

30. 70-400Hz

Control configuration for operation at frequencies ranging from 70-400Hz or 16 2/3 and 25Hz. Must specify exact frequency rating required.

31. Zero Fired Delay

Forces delay of turn on until next line voltage sine wave zero crossing point (up to 8.3 milliseconds). All subsequent cycles are zero-fired, as they are with the standard unit.

33. External Power

Terminals provided for external voltage to power trigger circuit permitting power control to switch non standard voltages. Applications include installing power controls in low voltage secondary output of transformer and powering trigger circuit with connections to high voltage primary. Specify voltage to be supplied, 120/240/480.

Proportional Option

Converts 11DZ/EZ solid state ON/OFF relays to time proportioning controls that respond to a 2-12VDC or 4-20 ma control signal. Factory installed, NOT field selectable. Specify -PV or -PM. Both options utilize an external supply transformer, supplied, shipped loose. Not available for 11DZ-N series.

277 VAC Input

277 VAC input voltage rating.

550 VAC

550 VAC input voltage (nominal).

600 VAC

600 VAC input voltage (nominal).

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