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Data Sheet
August 15, 2026

DWYER/OMEGA

DWYEROMEGA / OMEGA CN375-JC 1/16 DIN High-Limit Controller

The OMEGA CN375-JC is a 1/16 DIN high-limit controller designed for precise temperature monitoring and control. It features a clear display, easy-to-use interface, and reliable performance, making it suitable for various industrial applications where over-temperature protection is critical.

MODEL Dwyer/Omega CN375-JC	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU CN375-JC	LISTING https://aumictechlabs.com/products/cn375-jc-3/

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The OMEGA CN375-JC is a 1/16 DIN high-limit controller that monitors temperature inputs and de-energizes a normally energized SPDT latching relay when the process variable exceeds a user-selected setpoint. This design provides fail-safe over-temperature protection without programming. Manual reset via front-panel pushbutton restores the output relay. The controller accepts multiple sensor types J, K, R, and S thermocouples plus 3-wire Pt100 RTD - making it adaptable across diverse thermal monitoring requirements. Digital LED display shows temperature in 1°C or 1°F resolution. Accuracy is ±1.5% FS + 1 digit for thermocouple inputs and ±1% FS + 1 digit for RTD inputs. The fixed deadband spans 1.5 to 2.5% FS, preventing relay chatter near setpoint. Output relay rating is 240 Vac at 2.5 A resistive or 1 A inductive load. Technical

Specifications Input Types: J, K, R, S Thermocouples; 3-Wire RTD (Pt100) Temperature Ranges: Type J (0–399°C / 0–799°F), Type K (–18–537°C / 0–999°F), Type R (0–2999°F), Type S (0–1699°C), RTD (0–399°C / 0–799°F) Accuracy: Thermocouple ±1.5% FS + 1 digit; RTD ±1% FS + 1 digit Resolution: 1°C or 1°F Output Relay: SPDT latching mechanical, 240 Vac, 2.5 A (resistive) / 1 A (inductive) Deadband/Hysteresis: 1.5–2.5% FS (fixed) Power Supply: 110/230 Vac ±10%, 50/60 Hz Power Consumption: ~3 VA Input Impedance: 200 kΩ (thermocouple); 100 Ω max lead resistance (thermocouple), 2 Ω max per lead (RTD) Key Features High-limit shut-off control with fail-safe normally energized configuration No programming required - setpoint adjustment via user-accessible controls Manual front-panel pushbutton reset Compact 1/16 DIN form factor for panel-mount installation Digital LED display for real-time temperature readout Multi-sensor compatibility eliminates need for separate controllers Typical Applications Environmental chambers Industrial furnaces and ovens Packaging machinery thermal protection Process equipment over-temperature safeguards Compatibility & Integration Sensor types: Type J, K, R, S thermocouples and Pt100 RTD. Operating environment: 0–50°C ambient, 90% RH non-condensing. Panel mounting with standard 1/16 DIN footprint.

CN375JC Characteristics / Specifications

PARAMETER	VALUE
Model	CN375-JC
Instrument Type	1/16 DIN high-limit temperature controller
Family	Omega CN375
Input	J thermocouple (JC suffix)
Form Factor	1/16 DIN panel
Function	high-limit / safety-limit
Manufacturer	Omega / DwyerOmega
Literature	Omega CN375-JC 1/16 DIN high-limit listings
System Role	heater high-limit
Use Case	process heater safety limit
Sibling Process	CN9111A CN9000A process controller
Panel Class	1/16 DIN
Output Class	limit relay class
Sensor Class	J thermocouple
Documentation Type	CN375-JC listing
Brand Lineage	Omega / DwyerOmega
Application Class	temperature high-limit
Related	CN375 family high-limit controllers
Connector Class	panel TC and relay terminals
Host Class	1/16 DIN panel
Year Class	CN375-JC
Ate Class	process safety limit
Module Class	limit controller
Control Class	high-limit trip

CN375JC Specifications

PARAMETER	VALUE
Applications	1/16 DIN high-limit protection on J-thermocouple heated processes.
Key Features	1/16 DIN high-limit controller
Technical Specifications	Model: CN375-JC

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

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Notes

From Omega CN375-JC 1/16 DIN high-limit listings (J-thermocouple JC suffix). Trip accuracy, relay amperes, and supply volts are on the CN375 data sheet; do not invent them.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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