

Carel DN33V9MR20 Universal Controller: Reliable DIN-Rail Control For Modern HVAC Systems

Category: Equipment

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The Carel DN33V9MR20 is a compact universal electronic controller designed for DIN-rail mounting in professional HVAC and refrigeration panels. It offers a wide low-voltage power-supply range, two analogue and two digital inputs, and a robust relay output with buzzer and infrared receiver, delivering reliable temperature management in demanding applications.

Tecumseh CAJ9480T: The French-Made Heart of Legacy R22 Cold Rooms

Category: Refrigeration

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On the faded nameplate of this weathered compressor shell, one line stands out with absolute clarity: CAJ9480T - R22/R502 - Made in France. It is the unmistakable signature of a Tecumseh L'Unité Hermétique fully hermetic compressor, a workhorse still beating quietly inside countless small cold rooms and refrigerated cabinets in everyday commercial settings.

Replacing Unionaire Sensors with Kiriazi Deep Freezer Probes: What Technicians Must Check First

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The picture shows a refrigeration technician holding several tubular temperature probes and a small white connector in front of a heavily frosted evaporator, capturing the exact moment of diagnosing a sensor fault in a no-frost fridge or deep freezer. This real-world scene raises a key question: can Unionaire sensors be safely replaced with Kiriazi probes?

DC05CDNC1C 48V DC Cabinet Air Conditioner

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Outdoor telecom cabinets, base stations and industrial enclosures rely on compact DC air conditioners to keep sensitive electronics within a safe temperature range. The Envicool DC05CDNC1C 48V DC cabinet air conditioner is one of these dedicated solutions, delivering 550 W of cooling capacity in a sealed IP65 housing for harsh outdoor environments.

Frascold D2-15Y / D2-15.1Y

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The Frascold D2 15Y is a semi-hermetic reciprocating compressor designed for commercial and industrial refrigeration. With a 2 HP motor and 15.4 m³/h displacement, it delivers around 6-7 kW of cooling capacity using R404A, R448A or R449A, making it a robust option for low and medium temperature applications.

Frascold Z40-154Y

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The photos capture a heavy-duty Frascold Z40-154Y semi-hermetic compressor, an Italian 40 HP unit designed for demanding freezer and cold-room applications. Its nameplate shows a displacement of about 154 m³/h and robust pressure ratings, while the blue cast-iron body and mounted controls reveal a machine built for long-term industrial refrigeration service.

Copeland-15hp

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The photos show a Copeland condensing unit on a steel base, with a semi-hermetic compressor, air-cooled condenser and vertical liquid receiver designed for cold room applications. This type of refrigeration unit is widely used in commercial food storage because it delivers stable temperature control, good energy efficiency and straightforward maintenance for professional technicians.

FFI10HAK-FFI10HAKW

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The Embraco FFI10HAKW is a hermetic reciprocating compressor designed for low and medium back pressure refrigeration systems operating on R134a. It runs on 220-230 V, 50/60 Hz single-phase power and delivers roughly 1/3 HP from a 9.04 cm³ displacement, making it ideal for beverage coolers and small commercial display cabinets.

Zener Diode Series 1N746 to 1N5369 **Overview**

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1N746 - 3.0V	1N4720 - 3.0V	1N4724 - 3.0V
1N748 - 3.3V	1N4722 - 3.3V	1N4726 - 3.3V
1N750 - 3.6V	1N4724 - 3.6V	1N4728 - 3.6V
1N752 - 3.9V	1N4726 - 3.9V	1N4730 - 3.9V
1N754 - 4.3V	1N4728 - 4.3V	1N4732 - 4.3V
1N756 - 4.7V	1N4730 - 4.7V	1N4734 - 4.7V
1N758 - 5.1V	1N4732 - 5.1V	1N4736 - 5.1V
1N760 - 5.6V	1N4734 - 5.6V	1N4738 - 5.6V
1N762 - 6.2V	1N4736 - 6.2V	1N4739 - 6.2V
1N764 - 6.8V	1N4738 - 6.8V	1N4740 - 6.8V
1N766 - 7.5V	1N4740 - 7.5V	1N4741 - 7.5V
1N768 - 8.2V	1N4741 - 8.2V	1N4742 - 8.2V
1N770 - 9.1V	1N4742 - 9.1V	1N4743 - 9.1V
1N772 - 10.0V	1N4743 - 10.0V	1N4744 - 10.0V
1N774 - 11.0V	1N4744 - 11.0V	1N4745 - 11.0V
1N776 - 12.0V	1N4745 - 12.0V	1N4746 - 12.0V
1N778 - 13.0V	1N4746 - 13.0V	1N4747 - 13.0V
1N780 - 15.0V	1N4747 - 15.0V	1N4748 - 15.0V
1N782 - 16.0V	1N4748 - 16.0V	1N4749 - 16.0V
1N784 - 18.0V	1N4749 - 18.0V	1N4750 - 18.0V
1N786 - 20.0V	1N4750 - 20.0V	1N4751 - 20.0V
1N788 - 22.0V	1N4751 - 22.0V	1N4752 - 22.0V
1N790 - 24.0V	1N4752 - 24.0V	1N4753 - 24.0V
1N792 - 27.0V	1N4753 - 27.0V	1N4754 - 27.0V
1N794 - 30.0V	1N4754 - 30.0V	1N4755 - 30.0V
1N796 - 33.0V	1N4755 - 33.0V	1N4756 - 33.0V
1N798 - 36.0V	1N4756 - 36.0V	1N4757 - 36.0V
1N800 - 40.0V	1N4757 - 40.0V	1N4758 - 40.0V
1N802 - 45.0V	1N4758 - 45.0V	1N4759 - 45.0V
1N804 - 50.0V	1N4759 - 50.0V	1N4760 - 50.0V

Zener diodes are essential components in voltage regulation and protection circuits. This guide provides a detailed overview of three popular power ratings: 0.5W, 1W, and 5W Zener diode series, covering part numbers from 1N746 to 1N5369 and voltage ranges from 3.3V to 100V. Whether you’re designing a power supply, voltage reference, or surge protection circuit, having a complete voltage chart at your fingertips is invaluable for selecting the right component.

SCE SCOOP

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Understanding the inner workings of a Secop SCE hermetic compressor is essential for any refrigeration technician or engineer. This comprehensive guide breaks down the complex internal components—from the crankshaft to the valve plate—providing a detailed exploded view. Whether you are troubleshooting or studying mechanical design, our professional analysis offers the clarity needed for modern cooling systems.