DELTROL CORP.



General Purpose Relays

	1 01U	105	160	260	263/268
		SCHOL CONTROLS TO SPORT STORY TO A 2004 TO A 2	DEL TROLE ON FROLE. 104 TROLE 105 TROLE 105 TROLE 107 TROLE 1	OCHROL CONTROL ON THE PARTY OF	DELIFICATION CONTROLS THE PROPERTY OF THE PRO
Contact Rating	5 or 10 Amp	5 or 10 Amp	5 or 13 Amp	5, 10, or 15 Amp	15 Amp
Features	 Armature Stop Maintains Adjustment Replacement Relay for Many Devices RF Radio Frequency Version Available 	 Eight or Eleven Pin Plug-In Polycarbonate Plastic Cover Gusseted Frame Maintains Alignment 	 Low Cost Plug-In Design Coil Terminals Molded in Coil .187 QC or PC Terminals Wide Variety of Mountings Gusseted Frame Maintains Alignment 	 Low Cost Coil Terminals Molded in Coil .250 QC Terminals Wide Variety of Mountings Gusseted Frame Maintains Alignment 	 Low Cost Plug-In Design Coil Terminals Molded in Coil .187 QC or PC Terminals Wide Variety of Mountings
Size in Inches WxDxH	1.76 x 1.25 x 1.22	1.38 x 1.38 x 2.00	1.50 x 1.38 x 2.20	1.50 x 1.38 x 2.25	1.50 x 1.38 x 2.25
Contact Configuration	Thru 3PDT	Thru 3PDT	Thru 3PDT	Thru 3PDT	Thru 3PDT
Coil Insulation Class	Class F Molded Rynite®	Class F Molded Rynite®	Class F Molded Rynite®	Class F Molded Rynite®	Class F Molded Rynite®
Mounting Options	Panel Mount Bracket Mount	Socket Mount	Socket Mount Panel Mount PC Terminal	Panel Mount	Panel Mount
Sockets	N/A	Screw Terminal DIN Rail Mtg.	Screw Terminal DIN Rail Mtg. Back Connecting - PC Terminal - QC Terminal - Solder Tab	N/A	N/A
Typical Applications	Lighting Control, Time Delay Controls	Common Replacement Relay for Many Types of Existing Equipment	Industrial Machine Control, Energy Management Systems Control Panels	Industrial Machine Control, Lighting Control	Industrial Machine Control, Fork Lifts, Energy Management, HVAC

Specifications indicated may not apply to all versions of product. Check individual data pages for final determination at www.deltrol-controls.com. Specifications subject to change without notice.

Power Relays

	177	270/275	295	375	900
		GERRIO CONTROL DE LA CONTROL D		CE	STATE OF THE PARTY
Contact Rating	15 or 30 Amp	35 Amp	30 Amp	30 Amp	30 or 50 Amp
Features	 Heavy Duty 1/4" Dia. Contacts Compact Size Up-Stop for Contact Protection on SPST-NO-DM 	 High Power Switching in a Compact Size Can Often Replace Small Contactors 	 High Power Switching in a Compact Size Switches Tungsten Lamp Loads up to 2.4kw @ 240 VAC Exceeds NEMA STD TS2-2003 	 3 Pole High Power Switching Switches 30 Amp on Both NC NO Terminals Compact Size Saves Valuable "Real Estate" 	 High Power Switching for Motors, Heaters, etc. Rugged, Easy Access Construction Screw Terminal Connections
Size in Inches WxDxH	1.88 x 1.63 x 1.25	1.50 x 1.38 x 2.15	1.75 x 2.38 x 3.90	2.1 x 1.38 x 2.15	2.5 x 2.5 x 2.2 Short Base 2.5 x 3.3 x 2.2 Long Base
Contact Configuration	Thru SPDT SPST-NO-DM	Thru DPDT	DPDT	3PDT 3PST-NC 3PST-NO	Thru DPDT
Coil Insulation Class	Class F Molded Rynite®	Class F Molded Rynite®	Class F Molded Rynite®	Class F Molded Rynite®	Class F Molded Rynite®
Mounting Options	Panel Mount	Panel Mount PC Terminal	Standard 8 pin Jones Plug	Panel Mount PC Terminal	Panel Mount
Sockets	N/A	N/A	N/A	N/A	N/A
Typical Applications	Motor Control Lighting Control Surge Protection	Electric Heat, Motor Control, HVAC, Laundry Equipment, Welding Equipment	Traffic Controller Equipment	Electric Heat, Motor Control, Power Supplies	Motor Control, Control Panel Switching, Spa Controls

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Latching Relays & Buzzers

	101ML	105ML	166ML	BZ
			DELITICAL CONTINUAL GRACE APPRIL COME 1999 III. COM	Tilled and
Contact Rating	5 or 10 Amp	5 or 10 Amp	5 or 10 Amp	N/A
Features	 Permanent Magnet Locks Armature in Place Maintains Status Without Coil Power Pulse Activated 	 Permanent Magnet Locks Armature in Place Maintains Status Without Coil Power Pulse Activated 8, 11, or 20 Pin Octal Type Base 	 Low Cost Design Maintains Status Without Coil Power Single and Dual Coil Designs 	 AC Buzzer Easy Screw Mount Compact Size Molded Coil
Size in Inches WxDxH	1.69 x 1.38 x 3.38	1.94 x 1.94 x 3.25	1.50 x 1.38 x 2.20	1.06 x 1.26 x 1.0
Contact Configuration	Thru 6PDT	Thru 5PDT	Thru 3PDT	N/A
Coil Insulation Class	Class F Molded Rynite®	Class F Molded Rynite®	Class F Molded Rynite®	Class F Molded Rynite®
Mounting Options	Panel Mount	Socket Mount	Panel Mount Socket Mount	Screw Mount
Sockets	N/A	Screw Terminal DIN Rail Mtg.	Screw Terminal DIN Rail Mtg. Back Connecting – PC Terminals – QC Terminals – Solder Tab	N/A
Typical Applications	Railroads, Public Transit, Pump Controllers	Railroads, Public Transit	Laundry & Textile Equipment, HVAC	Commercial Appliances, Laundry Equipment

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DELTROL CONTROLS DIVISION OF DELTROL CORP.



Relay Product Features

This product brochure provides general information on our standard product line of relays. Complete product information can be obtained by visiting our web site at www.deltrol-controls.com.The following is a description of just some of the relay features that make up the *Deltrol Difference*.

Molded Coils

Deltrol Controls pioneered the plastic encapsulated coil. Virtually all our general purpose relays are available with DuPont Rynite® encapsulation, a UL recognized Class F insulation system. Encapsulation locks the coil terminals into place, eliminating breakage, puts the copper winding in direct contact with its wrap, allowing for the most efficient heat transfer, and protects against moisture and fungus problems that can occur with other wraps. Insist on Deltrol Controls encapsulated coils; look-alike, snap-on plastic covers do not offer the same protection.

Precision Contacts

Deltrol Controls utilizes the latest improvements in contact metallurgy. An example is our Series 270/275, which now has a 35 Amp rating in a DPDT configuration - the highest in the industry for this package.

Skeined Wire

Studies have shown that there is a substantial reduction in the copper wire diameter when soldering takes place. While this is not a problem with heavier wire, finer gauge wires are seriously compromised. Over time the stresses of thermocycling can cause the wire to break, leaving an open circuit. That's why Deltrol Controls skeins all fine gauge wire when constructing its coil. This process triples the thickness of the wire gauge at the ends where it is soldered to the terminal, allowing it to easily handle the stresses of heating and cooling.

Gusseted Frames

All Deltrol Controls relay frames incorporate a small but important feature, the frame gusset. This small buttress is created by an extra stamping process during frame fabrication. This gusset supplies rigidity to the frame, which in turn maintains the alignment of the contact/panel assembly and the moving armature. This assures long-life and resistance to changes during shipment and handling.

Armature Stop/Retainer

Deltrol Controls takes many extra steps in the assembly of our relays. An example is a riveted retainer/stop that eliminates the chance the armature will "pop" off during handling and shipping, and it provides a stop for armature movement. Relays without this feature are subject to bending and setting of the moveable contact blades on impact, which can cause the response characteristics to change.

www.deltrol-controls.com



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Other Deltrol Controls Products

In addition to our relays, Deltrol Controls also designs and manufactures solenoids, liquid dispensing valves, and custom assemblies. We offer an extensive line of standard products, and have an in-house engineering staff that will work with you to design a custom product specific to your application.

Please visit www.deltrol-controls.com for further information.







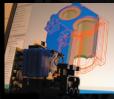
Solenoids

Dispensing Valves

Custom Assemblies



Deltrol Controls has supplied world-class products to industries for over 40 years. Our products are made at our 110,000-sq. ft. manufacturing facility in Milwaukee, WI, and other ISO-compliant facilities worldwide. We have extensive in-house engineering and manufacturing capabilities that allow us to design and manufacture products that exceed our customers' expectations. Please feel free to contact us to discuss your specific application.









Custom Product Engineering/Manufacturing

On-Site Product Testing

Product Manufacturing

Value Added Assembly

DELTROL
CONTROLS DIVISION OF DELTROL CORP.

www.deltrol-controls.com
Deltrol Controls
2740 S. 20th St. • Milwaukee, WI 53215
(414) 671-6800 • Fax (414) 671-6809

www.deltrol-controls.com

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