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TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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with experienced engineers and technicians on staff.

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along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

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- In stock / Ready-to-ship
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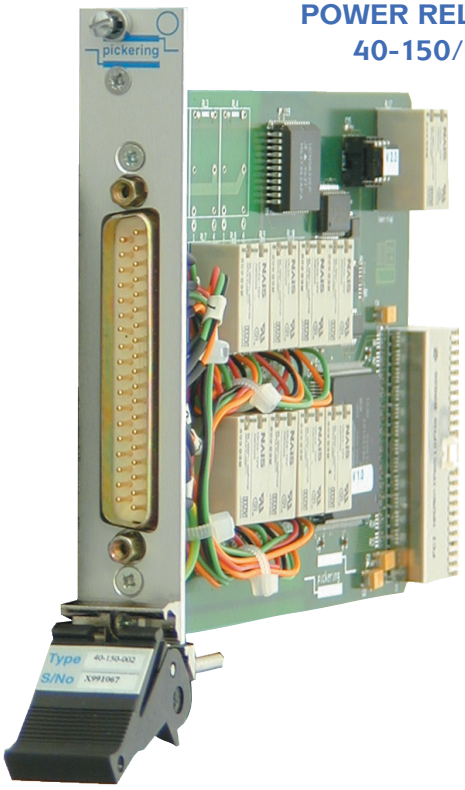
Expert team | Trust guarantee | 100% satisfaction

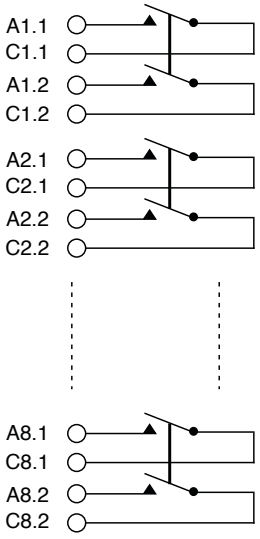
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Find the *Pickering 40-151-002* at our website: ***Click HERE***

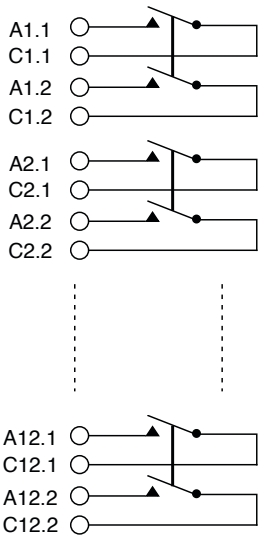
40-150/151/155/156
Power Relay Module

- 8 or 12 x DPST Power Relays Per Module
- 8 or 16 x SPDT Power Relays Per Module
- Switch up to 250 Volts AC, 5A
- Maximum Power Handling 1500VA/175W
- Operating Speed 5ms Typical
- VISA/IVI Drivers Supplied for Windows 2000/XP/Vista
- Supported by PXI or LXI Chassis
- 2 Year Warranty

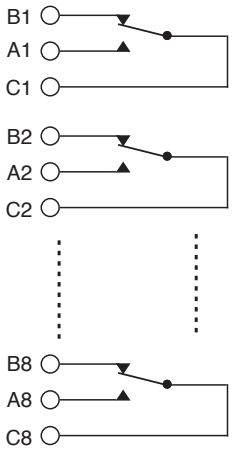




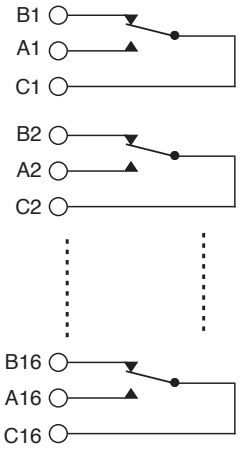
40-150 Relay Module
8 x DPST



40-151 Relay Module
12 x DPST



40-155 Relay Module
8 x SPDT



40-156 Relay Module
16 x SPDT

Pickering Interfaces have a range of power switching PXI modules,available in relay, matrix or multiplexer configurations. Connections are made via a front panel 37 or 50 Way D-Type male connectors.

Model 40-150/151 has 8 x DPST or 12 x DPST Power Relays, suitable for switching inductive/capacitive loads up to 5A at 250V AC. While Model 40-155/156 has 8 x SPDT or 16 x SPDT Power Relays.

Power Relay Modules are intended for switching heavy AC or DC loads or for slaving up to large external relays, contactors and solenoids.

The 40-150 series of Power Relay Module are suitable for applications requiring switching of either mains voltage or DC current.

Power Relay Type

The 40-150/155 is fitted with electro-mechanical power relays, gold-flash over silver alloy. A **Spare Relay is** built onto the circuit board to facilitate easy maintenance with minimum downtime.

Programming

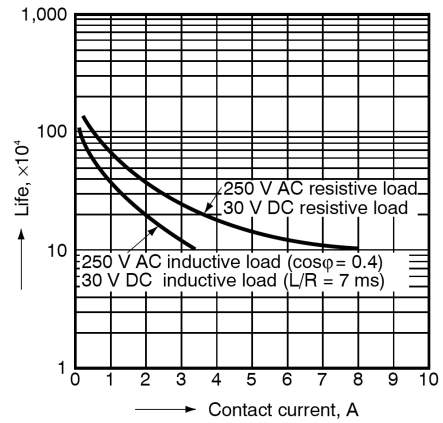
Pickering provide kernel, IVI and VISA drivers which are compatible with Windows 2000/XP/Vista operating systems. The VISA driver is also compatible with Real-Time Operating Systems such as LabVIEW RT. Additionally, QNX is fully supported, for other RTOS support contact Pickering.

These drivers may be used with a variety of programming environments and applications including:

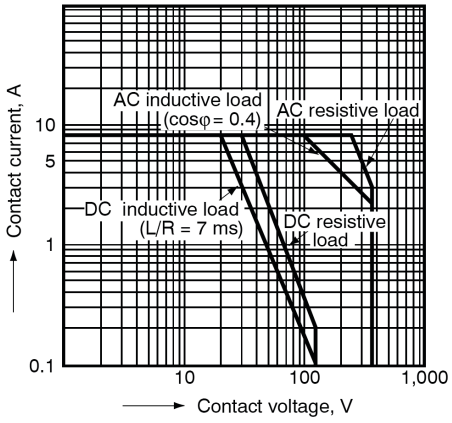
- **National Instruments** products (LabVIEW/LabWindows/CVI/MAX/TestStand etc.)
- **Microsoft Visual Studio** products (Visual Basic/Visual C+)
- **Agilent VEE**
- **Mathworks Matlab**

Drivers for popular Linux distributions are available, other environments are also supported, please contact Pickering with specific enquiries.

ISSUE 6.3 FEB 2009



40-150 Current/Operating Life Curve



40-150 Current/Voltage Curve

Power Requirements

+3.3V	+5V	+12V	-12V
0	360mA (typ 280mA)	0	0

Connectors

PXI bus via 32 bit P1/J1 backplane connector.

40-150 and 40-155: front panel 37-pin male D-type.
40-151 and 40-156: front panel 50-pin male D-type.

Width and Dimensions

Single slot 3U PXI (CompactPCI card).

PXI & CompactPCI Compliance

All Pickering Interfaces PXI modules comply with the PXI Specification 2.2. Local Bus, Interrupts, Trigger Bus and Star Trigger are not implemented.

PXI & LXI Chassis Compatibility

Compatible with all chassis conforming to the 3U PXI and 3U cPCI specification. Compatible with Legacy and Hybrid peripheral slots in a 3U PXI Express chassis.

Compatible with Pickering Interfaces LXI Modular Switching chassis. For information on driving your switching solution in an LXI environment refer to the LXI Short Form Catalog.



Switching Specification

Relay Type:	Electro-mechanical Gold flash over silver alloy contact
Max Voltage: Max Switch Current: Max Switch Power:	250Vac/125Vdc (DPST versions) 250Vac/35Vdc (SPDT versions) 5A 1250VA/175W
Path Resistance, On: Path Resistance, Off: Thermal Offset:	<250mΩ $>10^9$Ω <20µV
Bandwidth:	>20MHz
Operate Time: Release Time:	<5ms <4ms
Expected Life Low power load: Full power load:	 $>5x10^7$ operations $>1x10^5$ operations

Safety & CE Compliance

All modules are fully CE compliant and meet applicable EU directives: Low-voltage safety EN61010-1:2001, EMC Immunity EN61000-6-1:2001, Emissions EN55011:1998.

Product Order Codes

8 x DPST Power Relay Module	**40-150-002**
12 x DPST Power Relay Module	**40-151-002**
8 x SPDT Power Relay Module	**40-155-001**
16 x SPDT Power Relay Module	**40-156-001**

Mating Connectors & Cabling

Examples of connectors and cabling for the 40-150 series are:

40-960-037	37 way 5A D-type connector, solder.
40-960-050	50 way 5A D-type connector, solder.
40-972-037-1M	Cableform, 37 way D subminiature Female to unterminated, 5A, 1m Length
40-970-050-1M	Cableform, 50 way D subminiature Female to female, 5A, 1m Length
40-965-037	Connector block, 37 way D subminiature, Module mounted.
40-965-050	Connector block, 50 way D subminiature, Module mounted.

Please refer to the Pickering Interfaces "**Interconnection Solutions**" catalog for the full list of connector/cabling options, including drawings, photos and specifications. This is available in either print or as a download. Alternatively our web site has dynamically linked connector/cabling options, including pricing, for all Pickering PXI modules.

Latest Details

Please refer to our Web Site for Latest Product Details.
www.pickeringtest.com

Operating/Storage Conditions

Operating Conditions

Operating Temperature:	0°C to 55°C
Humidity:	Up to 90% non-condensing
Altitude:	5000m

Storage and Transport Conditions

Storage Temperature:	-20°C to +75°C
Humidity:	Up to 90% non-condensing
Altitude:	15000m

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Pickering Interfaces maintains a commitment to continuous product development, consequently we reserve the right to vary from the description given in this data sheet.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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