

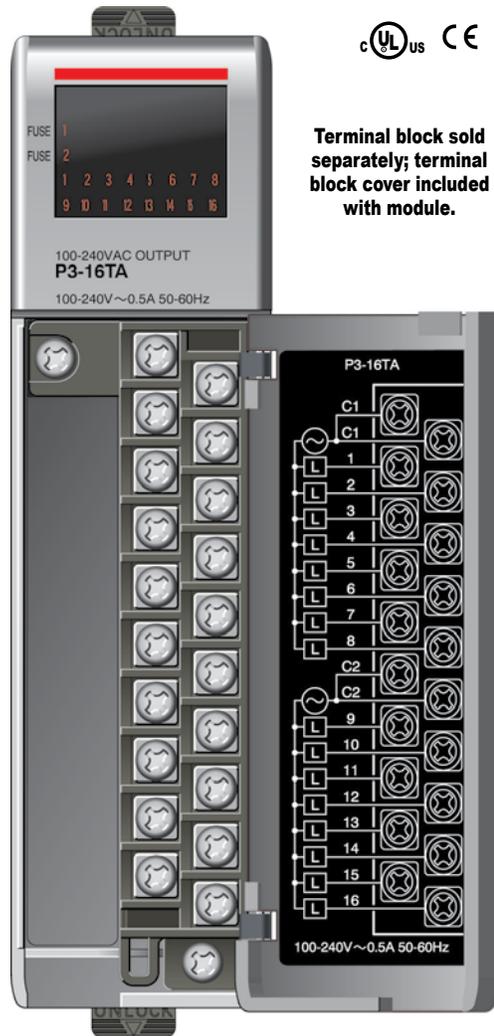
# AC Output Modules

P3-16TA

\$225.00

## AC Output

The P3-16TA AC Output Module provides sixteen 100–240 VAC outputs with two isolated fused commons.



Terminal block sold separately; terminal block cover included with module.

Output Specifications	
Outputs per Module	16
Operating Voltage Range (Tolerance)	(CE) 100–240 VAC (-15% / +10%)
	(UL) 100–240 VAC (-20% / +20%)
AC Frequency	47–63 Hz
Maximum Output Current @ Temp (Type 2)	0.5A / point, 4A / common @ 60 °C
Minimum Load (TYPE 2)	10 mA
Maximum Leakage Current (TYPE 2)	4 mA @ 264VDC
On Voltage Drop	1.5 VAC @ > 50mA
	4.0 VAC @ < 50mA
Maximum Inrush Current	10A for 10ms
OFF to ON Response	1 ms + 1/2 cycle
ON to OFF Response	1 ms + 1/2 cycle
Status Indicators	Logic Side (16 points)
Error Status Indicator	Blown Fuse (one for each common)
Terminal Type (not included)	20-position removable terminal block
Commons	2 Isolated (8 points / common)
Fuses	6.3A user replaceable fuse per common For replacement, order P3-FUSE-2. (Qty. 5/pkg.)

General Specifications	
Operating Temperature	0 to 60 °C (32 to 140 °F),
Storage Temperature	-20 to +70 °C (-4 to +158 °F)
Humidity	5 to 95% (non-condensing)
Environmental Air	No corrosive gases permitted
Vibration	IEC60068-2-6 (Test Fc)
Shock	IEC60068-2-27 (Test Ea)
Field to Logic Side Isolation	1500 VAC applied for 1 minute
Insulation Resistance	>10 MΩ @ 500 VDC
Heat Dissipation	12.69W
Enclosure Type	Open equipment
Module Keying to Backplane	Electronic
Module Location	Any I/O slot in any local, expansion, or remote base in a Productivity3000 system.
Field Wiring	Removable terminal block (not included). Use ZIPLink wiring system or optional terminal block. See Wiring Solutions.
Weight	125g (4.41 oz)
Agency Approvals	UL508 file E157382, Canada & USA UL1604 file E200031, Canada & USA CE (EN61131-2*) This equipment is suitable for use in Class 1, Division 2, Groups A, B, C and D or non-hazardous locations only.

\*Meets EMC and Safety requirements. See the Declaration of Conformity for details.

We recommend using prewired ZIPLink cables and connection modules. See Wiring Solutions.

Terminal block cover included. If you wish to hand-wire your module, a removable terminal block is sold separately. Order part number [P3-RTB](#).



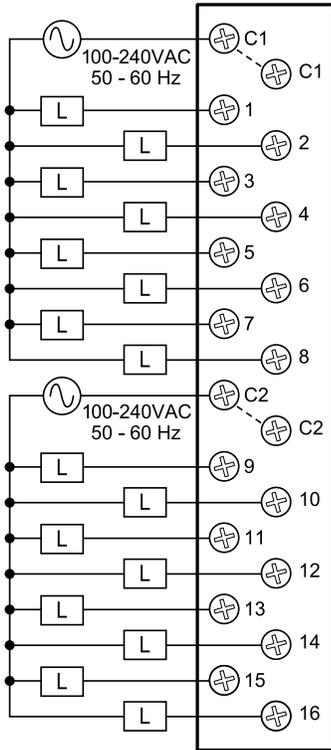
**WARNING: EXPLOSION HAZARD – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS 1, DIVISION 2.**

Removable Terminal Block Specifications	
Description	Part No. P3-RTB; 20 screw terminals
Wire Range	22–14 AWG (0.324 to 2.08 sq. mm) Solid / stranded conductor 3/64in (1.2mm) insulation maximum USE COPPER CONDUCTORS , 60 °C or equivalent.
Screw Driver Width	1/4in (6.5mm) maximum
Screw Size	M3 size
Screw Torque	Field terminals - 7–9 in-lb (0.882–1.02 N-m) Self-jacking screws - 2.7–3.6 in-lb (0.3–0.4 N-m). Do not overtighten screws when installing terminal block.

# AC Output Modules

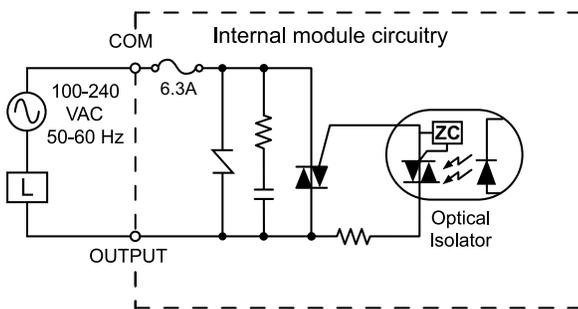
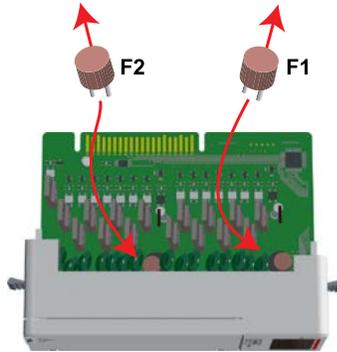
## P3-16TA (cont'd)

### Wiring Diagrams



### Replaceable Fuses

Order Part Number **P3-FUSE-2**  
(Qty. 5 per pkg.) One spare included with module.

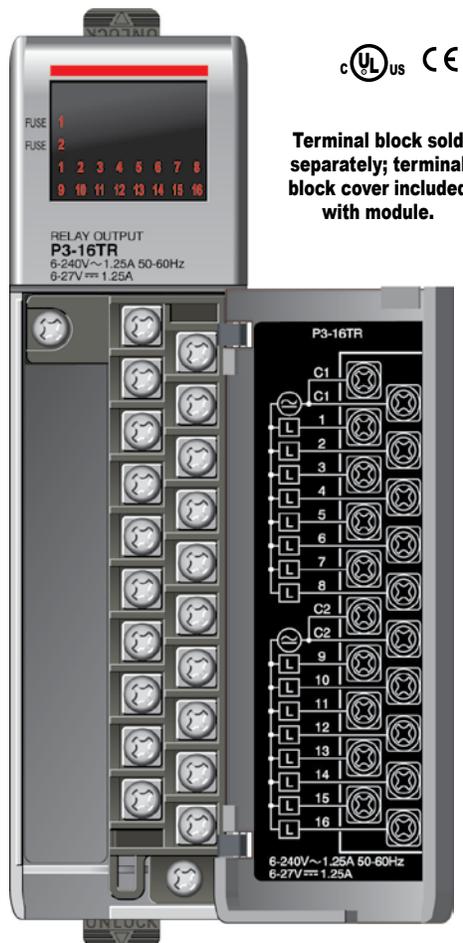


# Relay Output Modules

**P3-16TR**      **\$190.00**

## Relay Output

The P3-16TR Relay Output Module provides sixteen 1.25 A relay outputs with two isolated fused commons.



**Terminal block sold separately; terminal block cover included with module.**

Output Specifications	
<b>Outputs per Module</b>	16
<b>Operating Voltage Range (Tolerance)</b>	(CE) 6.25–24 VDC (-15% / + 20%) 6–240 VAC (-15% / + 10%)
	(UL) 6–27 VDC (-15% / + 10%) 6–240 VAC (-10% / + 10%)
<b>Output type</b>	Relay, form A (SPST)
<b>AC Frequency</b>	47–63 Hz
<b>Maximum Output Current @ Temp</b>	1.25 A / point, 6.3 A / common @ 60 °C for both AC and DC
<b>Minimum Load Current</b>	5mA @ 5 VDC
<b>Maximum Inrush Current</b>	4A for 10 ms
<b>OFF to ON Response</b>	≤ 10ms
<b>ON to OFF Response</b>	≤ 10ms
<b>Status Indicators</b>	Logic Side (16 points)
<b>Error Status Indicator</b>	Blown Fuse (one for each common)
<b>Terminal Type (not included)</b>	20-position removable terminal block
<b>Commons per module</b>	2 Isolated (8 point / common)
<b>Fuses</b>	6.3A user replaceable fuse per common For replacement, order <a href="#">P3-FUSE-2</a> . (Qty. 5/pkg.)

General Specifications	
<b>Operating Temperature</b>	0 to 60 °C (32 to 140 °F),
<b>Storage Temperature</b>	-20 to +70 °C (-4 to +158 °F)
<b>Humidity</b>	5 to 95% (non-condensing)
<b>Environmental Air</b>	No corrosive gases permitted
<b>Vibration</b>	IEC60068-2-6 (Test Fc)
<b>Shock</b>	IEC60068-2-27 (Test Ea)
<b>Field to Logic Side Isolation</b>	1500 VAC applied for 1 minute
<b>Insulation Resistance</b>	>10 MΩ @ 500 VDC
<b>Heat Dissipation</b>	3.93W
<b>Enclosure Type</b>	Open equipment
<b>Module Keying to Backplane</b>	Electronic
<b>Module Location</b>	Any I/O slot in any local, expansion, or remote base in a Productivity3000 system.
<b>Field Wiring</b>	Removable terminal block (not included). Use <a href="#">ZIPLink</a> wiring system or optional terminal block. See <a href="#">Wiring Solutions</a> .
<b>Weight</b>	160g (5.64 oz)
<b>Agency Approvals</b>	UL508 file E157382, Canada & USA UL1604 file E200031, Canada & USA CE (EN61131-2*) This equipment is suitable for use in Class 1, Division 2, Groups A, B, C and D or non-hazardous locations only.

\*Meets EMC and Safety requirements. See the Declaration of Conformity for details.

Typical Relay Life	
Voltage & Type of Load	Load Current 1.25A
30 VDC Resistive	240K
30 VDC Solenoid	110K
120 VAC Resistive	320K
120 VAC Solenoid	210K
240 VAC Resistive	240K
240 VAC Solenoid	140K

**WARNING: EXPLOSION HAZARD – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.**

We recommend using prewired [ZIPLink](#) cables and connection modules. See [Wiring Solutions](#).

Terminal block cover included. If you wish to hand-wire your module, a removable terminal block is sold separately. Order part number [P3-RTB](#).

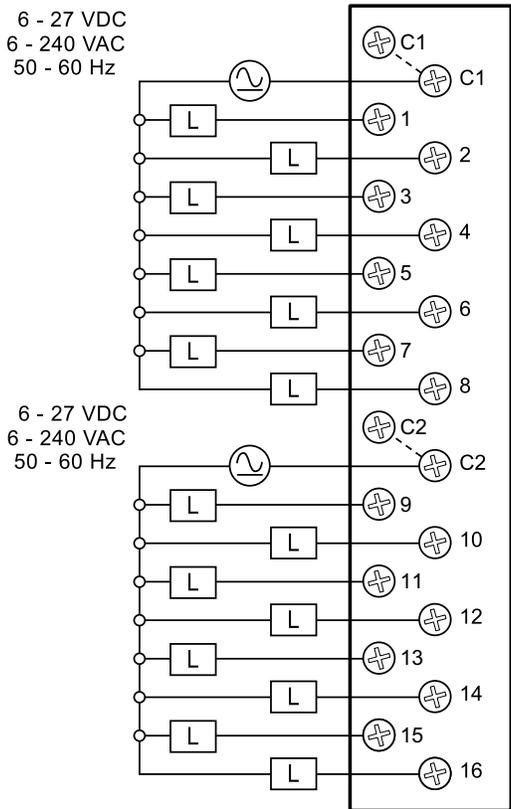


Removable Terminal Block Specifications	
<b>Description</b>	Part No. <a href="#">P3-RTB</a> ; 20 screw terminals
<b>Wire Range</b>	22–14 AWG (0.324 to 2.08 sq. mm) Solid / stranded conductor 3/64in (1.2mm) insulation maximum USE COPPER CONDUCTORS , 60 °C or equivalent.
<b>Screw Driver Width</b>	1/4in (6.5mm) maximum
<b>Screw Size</b>	M3 size
<b>Screw Torque</b>	Field terminals - 7–9 in·lb (0.882–1.02 N·m) Self-jacking screws - 2.7–3.6 in·lb (0.3–0.4 N·m). Do not overtighten screws when installing terminal block.

# Relay Output Modules

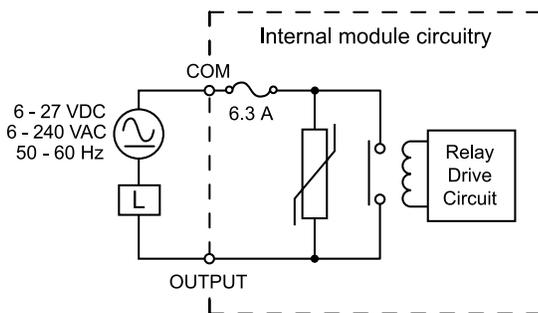
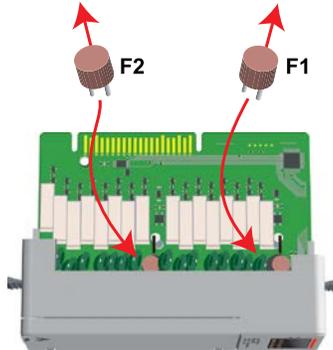
## P3-16TR (cont'd)

### Wiring Diagrams



### Replaceable Fuses

Order Part Number P3-FUSE-2.  
(Qty. 5 per pkg.) One spare included with this module.

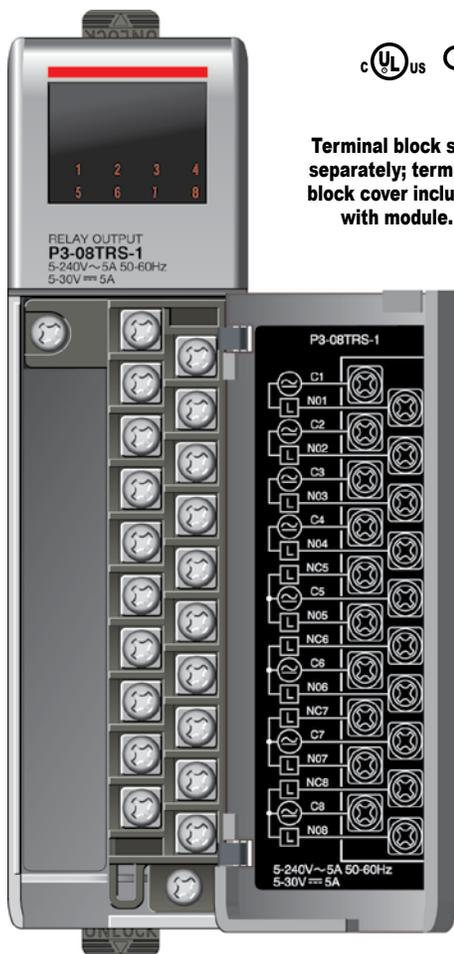


# Relay Output Modules

**P3-08TRS-1 \$217.00**

## Isolated Relay Output

The P3-08TRS-1 High-Current Isolated Relay Output Module provides eight 5A relay outputs with eight fused commons.

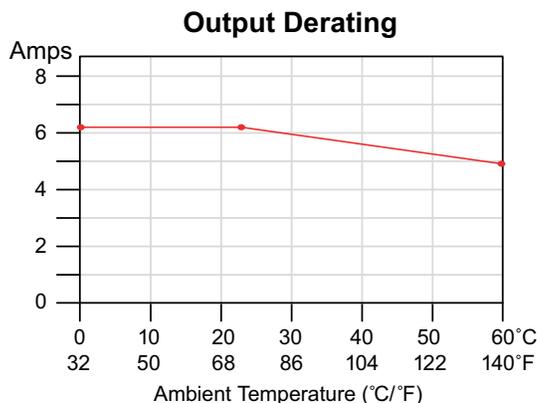


Terminal block sold separately; terminal block cover included with module.

Output Specifications	
<b>Outputs per Module</b>	8 relays (non-latching)
<b>Commons per Module</b>	8 (isolated)
<b>Operating Voltage Range (Tolerance)</b>	(CE) 6.25-24 VDC (-15% / +20%) 6-240 VAC (-15% / +10%)
	(UL) 5-30 VDC (-0% / +10%) 5-240 VAC (-0% / +10%)
<b>Output Type</b>	4 Form C (SPDT-NO/NC), 4 Form A (SPST-NO)
<b>AC Frequency</b>	47-63 Hz
<b>On Voltage Drop</b>	Minimal (90 mV max for fuse at 10A)
<b>Max Output Current @ Temperature (Resistive)*</b>	6.3A at 23 °C, 5.0A at 60 °C For both AC and DC
<b>Maximum Leakage Current</b>	Minimal (5 µA for TVS diode)
<b>Minimum Load</b>	10 mA @ 5 VDC
<b>Maximum Inrush Current</b>	12A
<b>External DC Required</b>	None
<b>OFF to ON Response</b>	10 ms
<b>ON to OFF Response</b>	5 ms (Excluding NO bounce)
<b>Terminal Type (not included)</b>	20-position removable terminal block
<b>Status Indicators</b>	Logic side
<b>Fuses</b>	6.3A user replaceable fuse per common For replacement, order P3-FUSE-2 (5/Pkg.)
<b>Dielectric Strength (Between normally open and normally closed contacts on the same relay)</b>	1500 VAC @ 1 min, logic to output and isolated output to output, 750 VAC @ 1 min, between contacts on same relay (Same as 1800 VAC @ 1 sec and 900 VAC @ 1 sec)
<b>Transient Voltage Suppression (Bi-directional TVS diode)</b>	482V clamp at 1.25A peak pulse current
<b>Mechanical Life Expectancy</b>	>100,000 at 30 operations per minute

Typical Relay Life*		
Voltage & Type of Load	Operating Current	Operations
24 VDC Resistive	6.3A	600,000
24 VDC Solenoid	0.2A	1,000,000
120 VAC Resistive	6.3A	600,000
120 VAC Solenoid	3A	1,000,000
240 VAC Resistive	0.5A	500,000
240 VAC Solenoid	6.3A	450,000
240 VAC Resistive	3A	600,000
1/4 HP Motor	1.5 x FLA (motor)	30,000

\*Ratings are for normally-open contacts. Normally-closed contacts have 1/2 the current handling capability.



All 8 outputs on, 100% duty cycle allowed.

We recommend using prewired ZIPLink cables and connection modules. See Wiring Solutions.

Terminal block cover included. If you wish to hand-wire your module, a removable terminal block is sold separately. Order part number P3-RTB.



Removable Terminal Block Specifications	
Description	Part No. P3-RTB; 20 screw terminals
<b>Wire Range</b>	22-14 AWG (0.324 to 2.08 sq. mm) Solid / stranded conductor 3/64in (1.2mm) insulation maximum USE COPPER CONDUCTORS, 60 °C or equivalent.
<b>Screw Driver Width</b>	1/4in (6.5mm) maximum
<b>Screw Size</b>	M3 size
<b>Screw Torque</b>	Field terminals - 7-9 in-lb (0.882-1.02 N·m) Self-jacking screws - 2.7-3.6 in-lb (0.3-0.4 N·m). Do not overtighten screws when installing terminal block.

**WARNING: EXPLOSION HAZARD – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.**

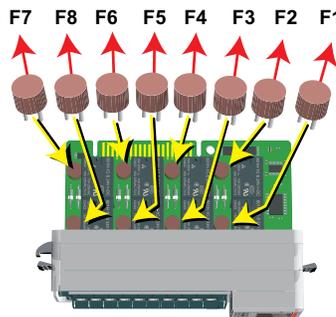
# Relay Output Modules

## P3-08TRS-1 (cont'd)

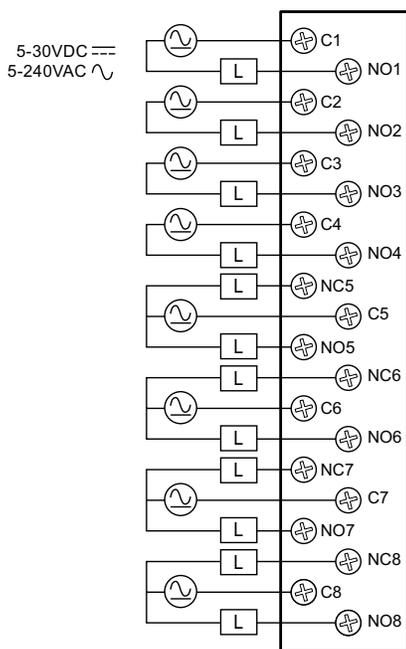
General Specifications	
<b>Operating Temperature</b>	0 to 60 °C (32 to 140 °F),
<b>Storage Temperature</b>	-20 to +70 °C (-4 to +158 °F)
<b>Humidity</b>	5 to 95% (non-condensing)
<b>Environmental Air</b>	No corrosive gases permitted
<b>Vibration</b>	IEC60068-2-6 (Test Fc)
<b>Shock</b>	IEC60068-2-27 (Test Ea)
<b>Field to Logic Side Isolation</b>	1800 VAC applied for 1s
<b>Insulation Resistance</b>	>10 MΩ @ 500 VDC
<b>Heat Dissipation</b>	3W
<b>Enclosure Type</b>	Open equipment
<b>Module Keying to Backplane</b>	Electronic
<b>Module Location</b>	Any I/O slot in any local, expansion, or remote base in a Productivity3000 system.
<b>Field Wiring</b>	Removable terminal block (not included). Use <b>ZIPLink</b> wiring system or optional terminal block. See Wiring Solutions.
<b>Terminal Type (not included)</b>	20-position removable terminal block
<b>Weight</b>	286g (10.08 oz)
<b>Agency Approvals</b>	UL508 file E157382, Canada & USA UL1604 file E200031, Canada & USA CE (EN61131-2*) This equipment is suitable for use in Class 1, Division 2, Groups A, B, C and D or non-hazardous locations only.

### Replaceable Fuses

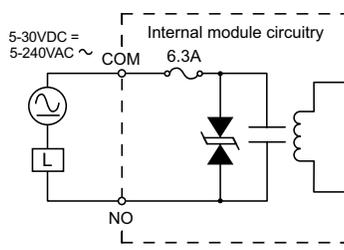
Order Part Number **P3-FUSE-2**  
(Qty. 5/Pkg.) One spare included with this module.



\*Meets EMC and Safety requirements. See the Declaration of Conformity for details.



Outputs NO1 - NO4



Outputs NO5 / NC5 - NO8 / NC8

