

# **SPECIFICATIONS - DISCRETE I/O MODULES**

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## **In This Chapter:**

Discrete I/O Modules Overview .....	5-2
Discrete Input Modules .....	5-2
Discrete Output Modules .....	5-2
T1K-08ND3 - DC Input .....	5-3
T1K-16ND3 - DC Input .....	5-5
T1K-08NA-1 - AC Input.....	5-7
T1K-16NA-1 - AC Input.....	5-8
T1K-08TD1 - DC Output .....	5-9
T1K-16TD1 - DC Output .....	5-10
T1K-08TD2-1 - DC Output.....	5-11
T1K-16TD2-1 - DC Output.....	5-12
T1H-08TDS - Isolated DC Output.....	5-13
T1K-08TA - AC Output.....	5-14
T1K-16TA - AC Output.....	5-15
T1K-08TAS - Isolated AC Output.....	5-16
T1K-08TR - Relay Output.....	5-17
T1K-16TR - Relay Output.....	5-18
T1K-08TRS - Isolated Relay Output.....	5-19

## Discrete I/O Modules Overview

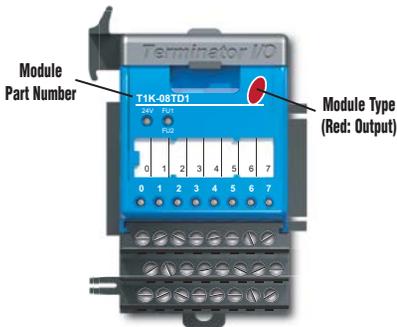
There are 15 discrete I/O modules available. The specifications and wiring diagrams for these modules are found in this chapter. Each discrete I/O module is identified as an “Input” or “Output” module using the color coding scheme shown below. A blue dot on the front panel signifies an Input module and a red dot signifies an Output module.

### Discrete Input Modules



Discrete Input Modules			
Part Number	Number of Inputs	Description	See Page
<b>T1K-08ND3</b>	8	Sinking/Sourcing DC Input	5-4
<b>T1K-16ND3</b>	16	Sinking/Sourcing DC Input	5-6
<b>T1K-08NA-1</b>	8	AC Input	5-8
<b>T1K-16NA-1</b>	16	AC Input	5-9

### Discrete Output Modules



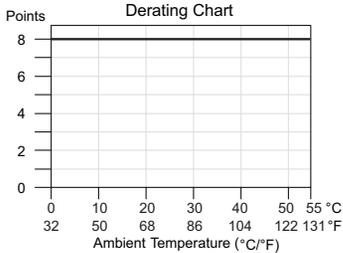
Discrete Output Modules			
Part Number	Number of Outputs	Description	See Page
<b>T1K-08TD1</b>	8	Sinking DC Output	5-10
<b>T1K-16TD1</b>	16	Sinking DC Output	5-11
<b>T1K-08TD2-1</b>	8	Sourcing DC Output	5-12
<b>T1K-16TD2-1</b>	16	Sourcing DC Output	5-13
<b>T1H-08TDS</b>	8	Isolated Sinking/Sourcing DC Output	5-14
<b>T1K-08TA</b>	8	AC Output	5-15
<b>T1K-16TA</b>	16	AC Output	5-16
<b>T1K-08TAS</b>	8	Isolated AC Output	5-17
<b>T1K-08TR</b>	8	Relay Output	5-18
<b>T1K-16TR</b>	16	Relay Output	5-19
<b>T1K-08TRS</b>	8	Isolated Relay Output	5-20



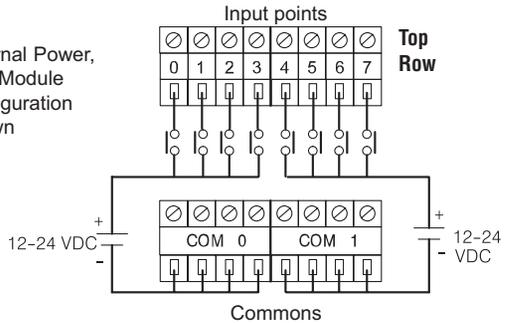
**WARNING:** The T1H Series PLC does not support any Hot-Swap features.

# T1K-08ND3 - DC Input

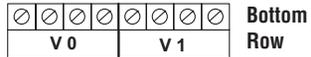
Specifications	
<b>Inputs Per Module</b>	8 (sink / source)
<b>Commons Per Module</b>	Ext. power: 2, isolated (4 pts. / com.) Int. power: 2, all 8 pts. internally connected
<b>Operating Voltage</b>	12–24 VDC
<b>Input Voltage Range</b>	10.8–26.4 VDC min. / max.
<b>Peak Voltage</b>	30VDC
<b>Input Current (Typical)</b>	4mA @ 12VDC, 8.5 mA @ 24VDC
<b>Input Impedance</b>	2.8 kΩ
<b>ON Voltage Level</b>	> 10.0 VDC
<b>OFF Voltage Level</b>	< 2.0 VDC
<b>Min. ON Current</b>	4mA
<b>Max. OFF Current</b>	0.5 mA
<b>OFF to ON Response</b>	2–8 ms, Typical: 4ms
<b>ON to OFF Response</b>	2–8 ms, Typical: 4ms
<b>Base Power Requirements</b>	35mA @ 5VDC
<b>Status Indicators</b>	Logic Side
<b>Weight</b>	70g



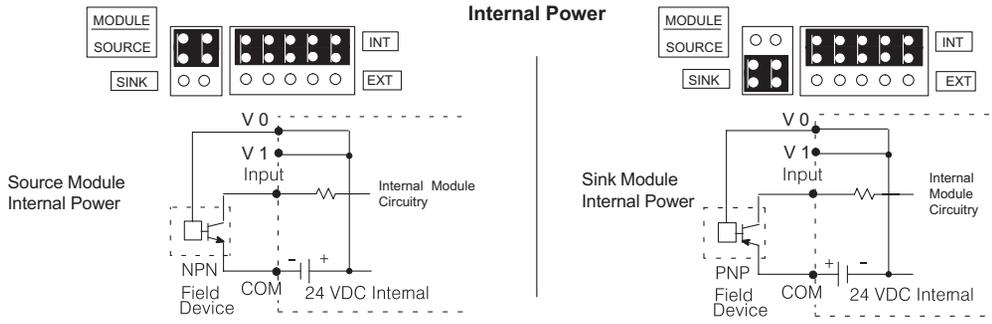
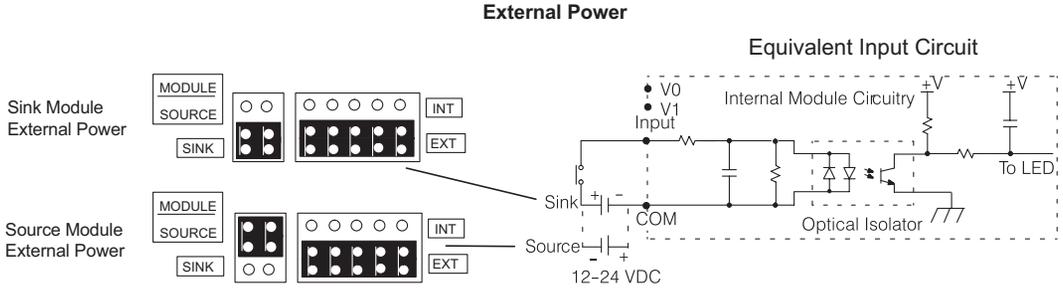
Note:  
External Power,  
Sink Module  
Configuration  
Shown



V 0 and V 1 supply 24 VDC  
or 0 VDC if Internal Power  
Jumper is selected

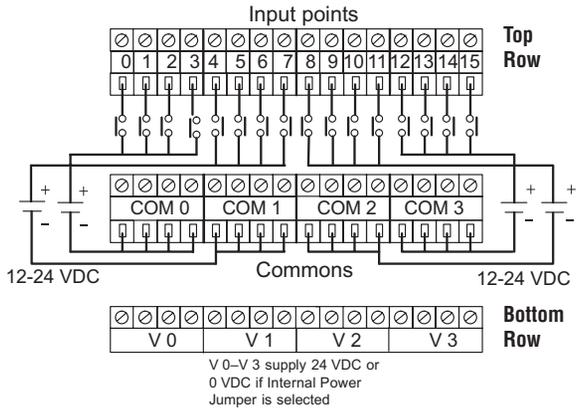
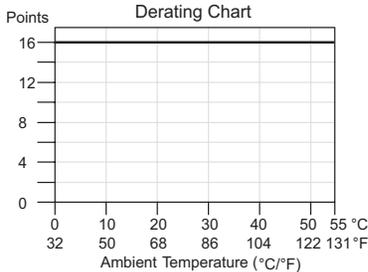
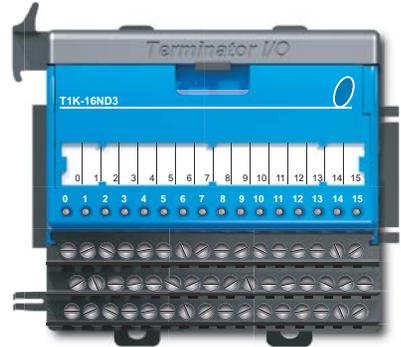


## Jumper Selection



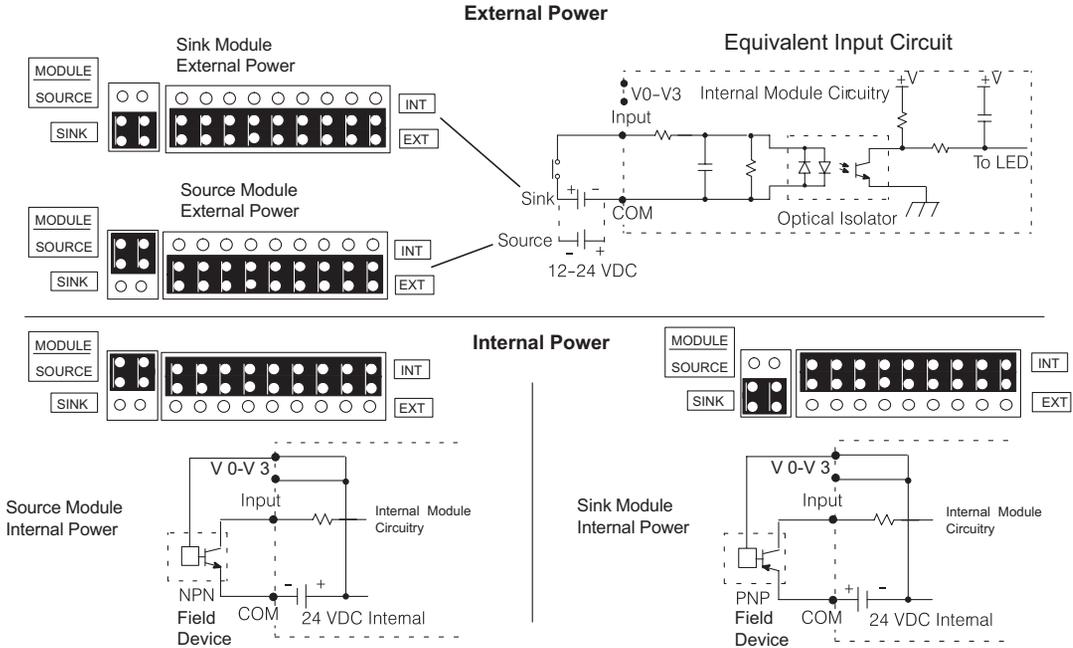
# T1K-16ND3 - DC Input

Specifications	
<b>Inputs Per Module</b>	16 (sink / source)
<b>Commons Per Module</b>	Ext. power: 4, isolated (4 pts. / com.) Int. power: 4, all 16 pts. internally connected
<b>Operating Voltage</b>	12-24 VDC
<b>Input Voltage Range</b>	10.8 - 26.4 VDC min. / max.
<b>Peak Voltage</b>	30VDC
<b>Input Current (Typical)</b>	4mA @ 12VDC, 8.5 mA @ 24VDC
<b>Input Impedance</b>	2.8 kΩ
<b>ON Voltage Level</b>	>10.0 VDC
<b>OFF Voltage Level</b>	<2.0 VDC
<b>Min. ON Current</b>	4mA
<b>Max. OFF Current</b>	0.5 mA
<b>OFF to ON Response</b>	2-8 ms, Typical: 4ms
<b>ON to OFF Response</b>	2-8 ms, Typical: 4ms
<b>Base Power Requirements</b>	70mA @ 5VDC
<b>Status Indicators</b>	Logic Side
<b>Weight</b>	160g



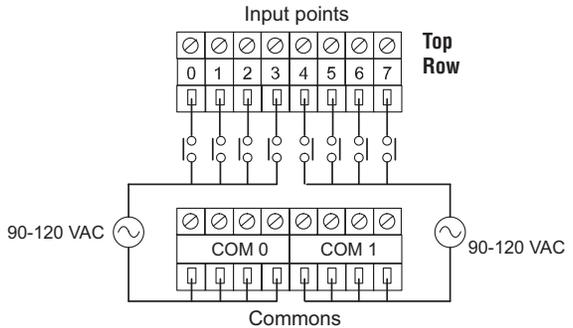
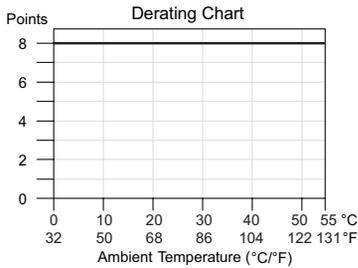
**NOTE:** When using external power, the module can be wired to either sink current or source current regardless of the module's sink/source jumper position. When using internal power, the sink/source jumpers determine the module's configuration."

## Jumper Selection



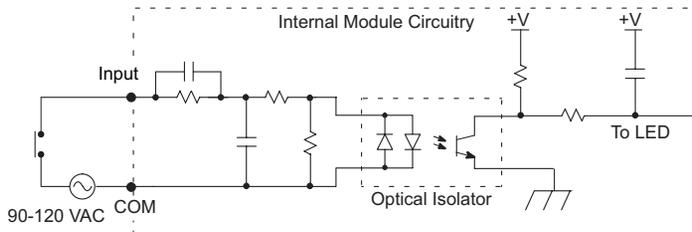
# T1K-08NA-1 - AC Input

Specifications	
<b>Inputs Per Module</b>	8
<b>Commons Per Module</b>	2, 4 pts. / com. (Isolated)
<b>Operating Voltage</b>	90–120 VAC, 47–63 Hz
<b>Input Voltage Range</b>	80–132 VAC, 47–63 Hz min. / max.
<b>Input Current</b>	8mA @ 100VAC (50Hz) 10mA @ 100VAC (60Hz) 12mA @ 132VAC (50Hz) 15mA @ 132VAC (60Hz)
<b>Input Impedance</b>	14kΩ @ 50Hz, 12kΩ @ 60Hz
<b>ON Current / Voltage</b>	> 6mA @ 75VAC
<b>OFF Current / Voltage</b>	< 2.0 mA @ 20VAC
<b>OFF to ON Response</b>	< 40ms
<b>ON to OFF Response</b>	< 40ms
<b>Base Power Requirements</b>	35mA @ 5VDC
<b>Status Indicators</b>	Logic Side
<b>Weight</b>	70g



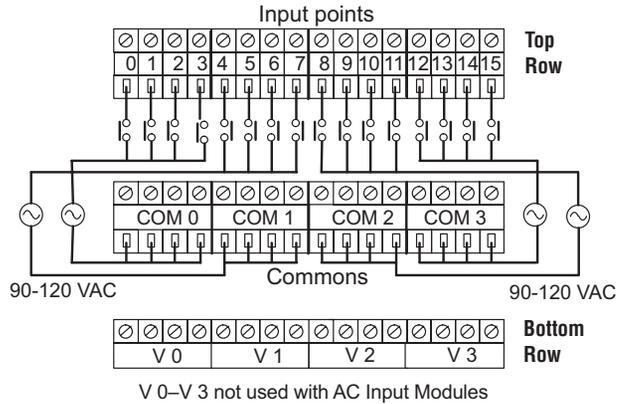
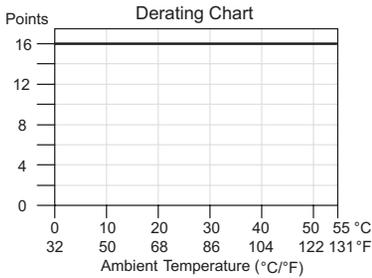
V 0, V 1 not used with AC Input Modules

## Equivalent Input Circuit

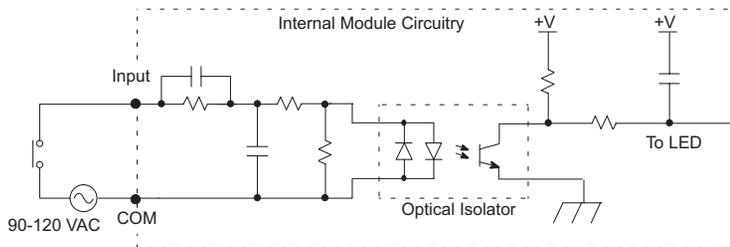


# T1K-16NA-1 - AC Input

Specifications	
<b>Inputs Per Module</b>	16
<b>Commons Per Module</b>	4, 4 pts. / com. (Isolated)
<b>Operating Voltage</b>	90–120 VAC, 47–63 Hz
<b>Input Voltage Range</b>	80–132 VAC, 47–63 Hz min. / max.
<b>Input Current</b>	8mA @ 100VAC (50Hz) 10mA @ 100VAC (60Hz) 12mA @ 132VAC (50Hz) 15mA @ 132VAC (60Hz)
<b>Input Impedance</b>	14kΩ @ 50Hz, 12kΩ @ 60Hz
<b>ON Current / Voltage</b>	> 6mA @ 75VAC
<b>OFF Current / Voltage</b>	< 2.0 mA @ 20VAC
<b>OFF to ON Response</b>	< 40ms
<b>ON to OFF Response</b>	< 40ms
<b>Base Power Requirements</b>	70mA @ 5VDC
<b>Status Indicators</b>	Logic Side
<b>Weight</b>	120g

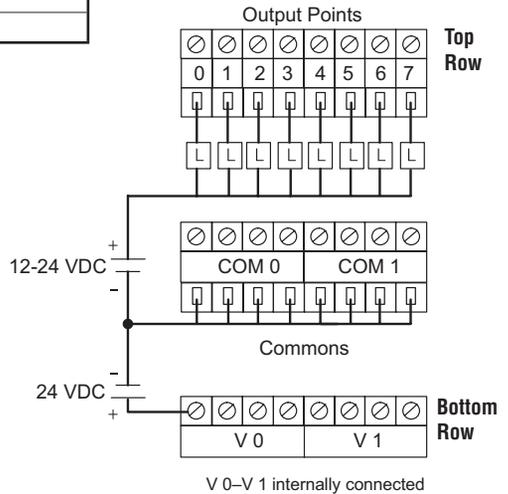
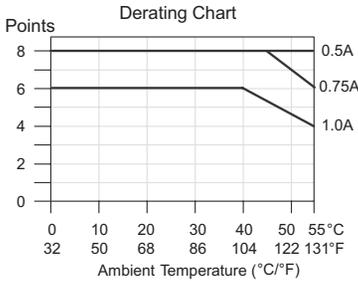


### Equivalent Input Circuit

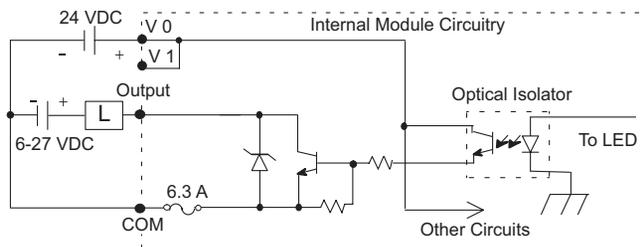


# T1K-08TD1 - DC Output

Specifications	
<b>Outputs Per Module</b>	8 (sink)
<b>Commons Per Module</b>	2 internally connected
<b>Operating Voltage Range</b>	6–27 VDC
<b>Output Voltage Range</b>	5–30 VDC min. / max.
<b>Peak Voltage</b>	50VDC
<b>Max. Load Current</b>	1A / pt., 4A / common
<b>Max. Leakage Current</b>	15µA @ 30VDC
<b>ON Voltage Drop</b>	0.3 VDC @ 1.0 A
<b>Max. Inrush Current</b>	2A for 100ms
<b>OFF to ON Response</b>	< 10µs
<b>ON to OFF Response</b>	< 60µs
<b>Base Power Requirements</b>	100mA @ 5VDC
<b>External Power Required</b>	200mA max. @ 20–28 VDC
<b>Status Indicators</b>	Logic Side
<b>Error Status Indicators (LEDs)</b>	24V ON = low external power FU1 / FU2 ON = fuse 1 or fuse 2 blown
<b>Fuses (User Replaceable)</b>	2, (6.3 A, 250V / common), (4 pts. / fuse)
<b>T1K-FUSE-1</b>	NQ3 - 6.3 SOC corp.
<b>Weight</b>	85g

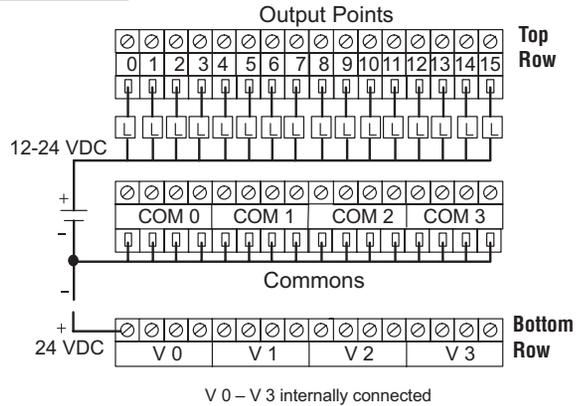
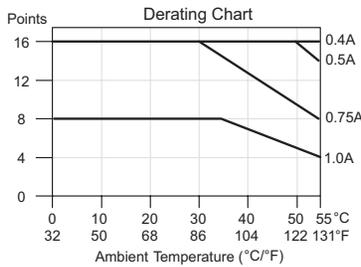
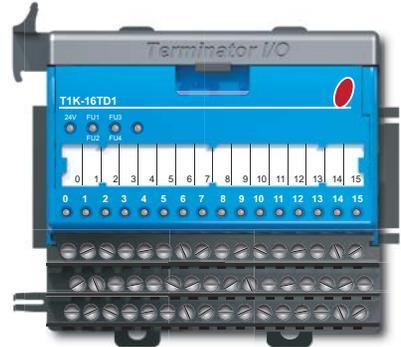


### Equivalent Output Circuit

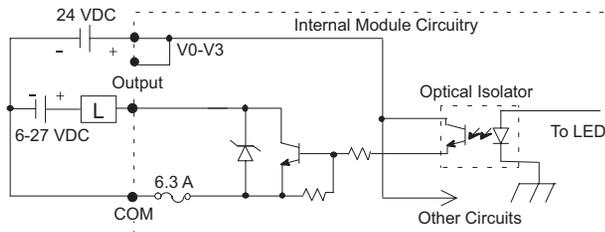


# T1K-16TD1 - DC Output

Specifications	
<b>Outputs Per Module</b>	16 (sink)
<b>Commons Per Module</b>	4 internally connected
<b>Operating Voltage Range</b>	6–27 VDC
<b>Output Voltage Range</b>	5–30 VDC min. / max.
<b>Peak Voltage</b>	50VDC
<b>Max. Load Current</b>	1A / pt., 4A / common
<b>Max. Leakage Current</b>	15µA @ 30VDC
<b>ON Voltage Drop</b>	0.3 VDC @ 1.0 A
<b>Max. Inrush Current</b>	2A for 100ms
<b>OFF to ON Response</b>	< 10µs
<b>ON to OFF Response</b>	< 60µs
<b>Base Power Requirements</b>	200mA @ 5VDC
<b>External Power Required</b>	400mA max. @ 20–28 VDC
<b>Status Indicators</b>	Logic Side
<b>Error Status Indicators (LEDs)</b>	24V ON = low external power FU1 / FU2 ON = fuse 1 or 2 blown FU3 / FU4 ON = fuse 3 or 4 blown
<b>Fuses (User Replaceable)</b>	4, (6.3 A, 250V / common), (4 pts. / fuse)
<b>T1K-FUSE-1</b>	NQ3 - 6.3 SOC corp.
<b>Weight</b>	140g

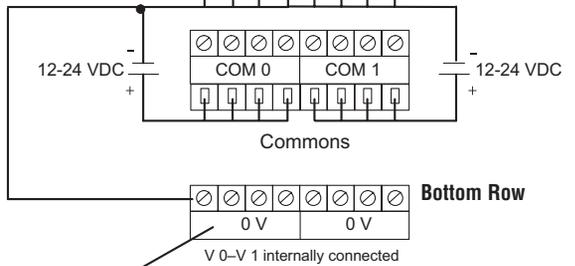
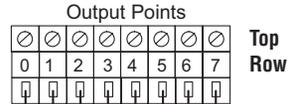
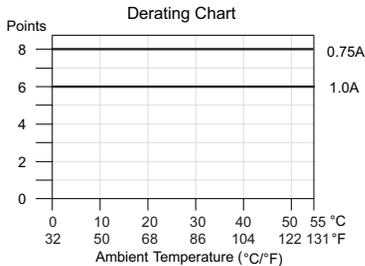


### Equivalent Output Circuit



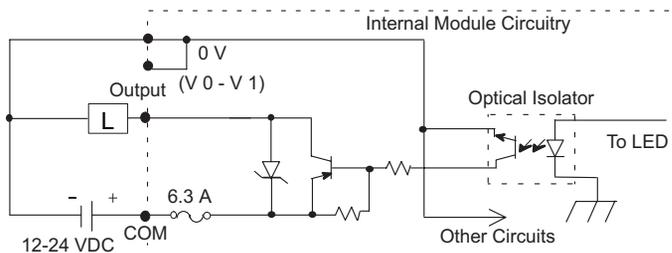
# T1K-08TD2-1 - DC Output

Specifications	
<b>Outputs Per Module</b>	8 (source)
<b>Commons Per Module</b>	2 internally connected
<b>Operating Voltage Range</b>	12–24 VDC
<b>Output Voltage Range</b>	10.8 - 26.4 VDC min. / max.
<b>Peak Voltage</b>	50VDC
<b>Max. Load Current</b>	1A / pt., 4A / common
<b>Max. Leakage Current</b>	15 $\mu$ A @ 26.4 VDC
<b>ON Voltage Drop</b>	1.2 VDC @ 1.0 A
<b>Max. Inrush Current</b>	2A for 100ms
<b>OFF to ON Response</b>	< 10 $\mu$ s
<b>ON to OFF Response</b>	< 0.5 ms
<b>Base Power Requirements</b>	100mA @ 5VDC
<b>Status Indicators</b>	Logic Side
<b>Error Status Indicators (LEDS)</b>	FU1 / FU2 ON = fuse 1 or fuse 2 blown
<b>Fuses (User Replaceable)</b>	2, (6.3 A, 250V / common), (4 pts. / fuse)
<b>T1K-FUSE-1</b>	NQ3 - 6.3 SOC corp.
<b>Weight</b>	100g



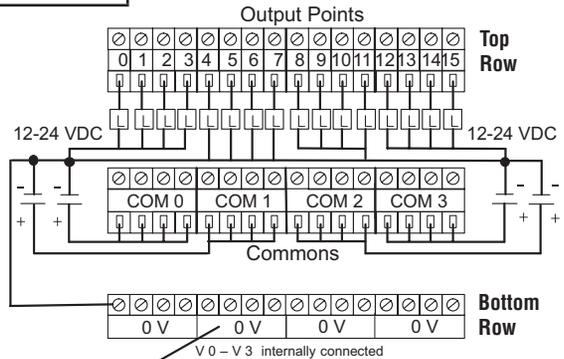
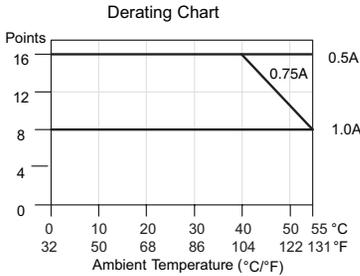
**Note:** Apply the 0 V label that comes with the I/O module to I/O base terminal points V 0–V 1 to properly identify the 0 VDC terminal points.

## Equivalent Output Circuit



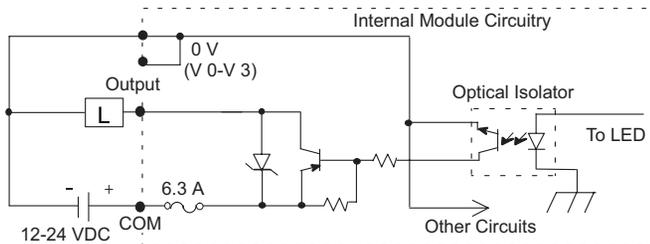
# T1K-16TD2-1 - DC Output

Specifications	
<b>Outputs Per Module</b>	16 (source)
<b>Commons Per Module</b>	4 internally connected
<b>Operating Voltage Range</b>	12–24 VDC
<b>Output Voltage Range</b>	10.8–26.4 VDC min. / max.
<b>Peak Voltage</b>	50VDC
<b>Max. Load Current</b>	1A / pt., 4A / common (Subject to derating)
<b>Max. Leakage Current</b>	15µA @ 26.4 VDC
<b>ON Voltage Drop</b>	1.2 VDC @ 1.0 A
<b>Max. Inrush Current</b>	2A for 100ms
<b>OFF to ON Response</b>	<10µs
<b>ON to OFF Response</b>	< 0.5 ms
<b>Base Power Requirements</b>	200mA @ 5VDC
<b>Status Indicators</b>	Logic Side
<b>Error Status Indicators (LEDs)</b>	FU1 / FU2 ON = fuse 1 or 2 blown FU3 / FU4 ON = fuse 3 or 4 blown
<b>Fuses (User Replaceable)</b>	4, (6.3 A, 250 V / common), (4 pts. / fuse)
<b>T1K-FUSE-1</b>	NQ3 - 6.3 SOC corp.
<b>Weight</b>	140g



**Note:** Apply the 0 V label that comes with the I/O module to I/O base terminal points V 0–V 3 to properly identify the 0 VDC terminal points.

### Equivalent Output Circuit



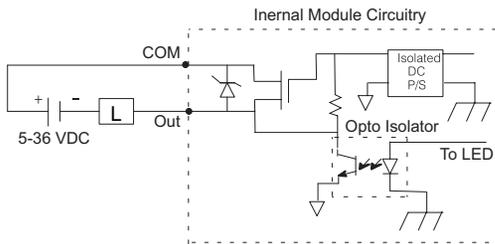
# T1H-08TDS - Isolated DC Output

Specifications	
<b>Outputs Per Module</b>	8 (sink / source)
<b>Commons Per Module</b>	8 (isolated)
<b>Operating Voltage Range</b>	5–36 VDC
<b>Max. Voltage</b>	36VDC
<b>Output Clamp Voltage</b>	40VDC
<b>Max. Load Current</b>	2A / pt., 16A / module, 32°F to 140°F (0°C to 60°C)
<b>Electronic Over Current Protection</b>	Output trips at 6A min., 12A max.
<b>Max. Load Voltage</b>	36VDC
<b>Max. Leakage Current</b>	75µA
<b>Max. ON State Voltage Drop</b>	0.3 VDC @ 2.0 A, 0.15 V @ 1A
<b>Inrush Current</b>	5A for 20ms
<b>OFF to ON Response</b>	< 3µs
<b>ON to OFF Response</b>	< 100µs
<b>Base Power Requirements</b>	200mA max.
<b>Thermal Shutdown</b>	Between T-junction = 302°F to 374°F (150°C to 190°C)
<b>Over Temperature Reset</b>	Thermal shutdown temp. minus 5°F (15°C)
<b>Status Indicators</b>	Logic Side
<b>Weight</b>	93.6 g

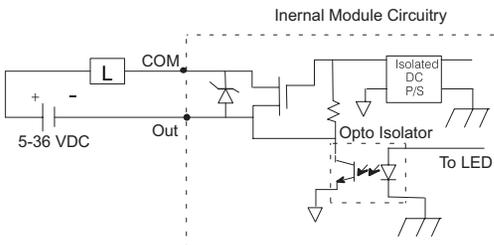


### Equivalent Output Circuit

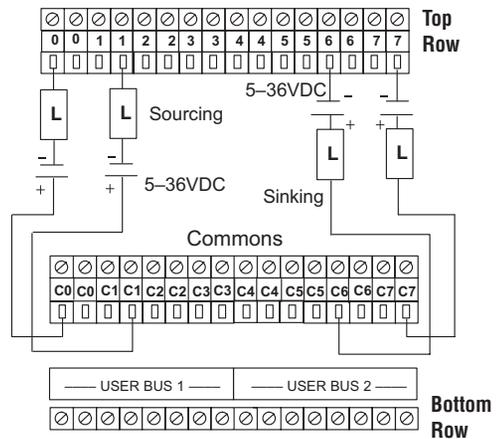
#### Sourcing (High Side Switching)



#### Sinking (Low Side Switching)



### Output Points

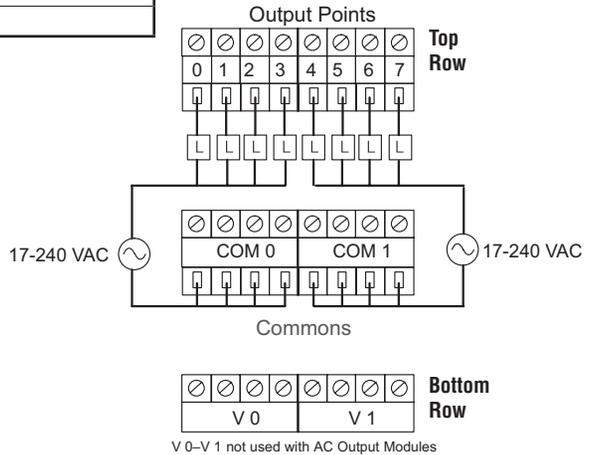
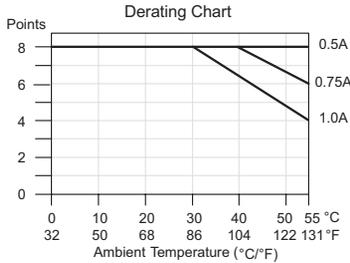


No connection: The 8 User Bus 1 terminals are bussed together. The 8 User Bus 2 terminals are also bussed together.

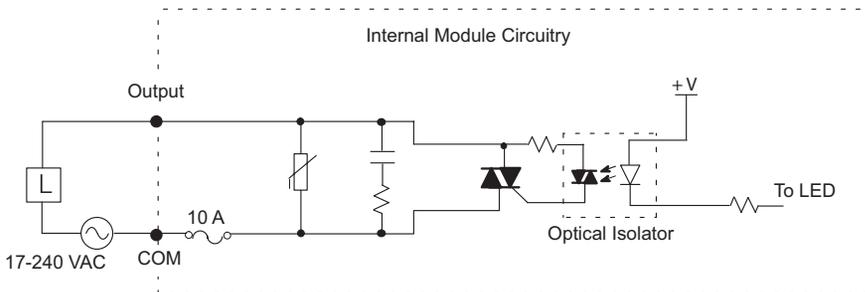
**Note:** Apply the labels that come with the I/O module to the I/O base to properly identify the terminal points.

# T1K-08TA - AC Output

Specifications	
<b>Outputs Per Module</b>	8
<b>Commons Per Module</b>	2, 4 pts. / common (Isolated)
<b>Operating Voltage Range</b>	17–240 VAC (47–63 Hz)
<b>Output Voltage Range</b>	15–264 VAC (47–63 Hz) min. / max.
<b>Max. Load Current</b>	1A / pt., 4A / common (Subject to derating)
<b>ON Voltage Drop</b>	1.5 VAC @ > 50mA, 4.0 VAC @ < 50mA
<b>Max. Leakage Current</b>	4mA @ 264VAC
<b>Max. Inrush Current</b>	10A for 10ms
<b>Min. Load</b>	10mA
<b>OFF to ON Response</b>	< 1ms
<b>ON to OFF Response</b>	< 1ms + 1/2 cycle
<b>Base Power Requirements</b>	250mA @ 5 VDC
<b>Status Indicators</b>	Logic Side
<b>Error Status Indicators (LEDs)</b>	FU1 ON = fuse 1 blown FU2 ON = fuse 2 blown
<b>Fuses (User Replaceable)</b>	2, (10A, 250V / common), (4 pts. / fuse)
<b>T1K-FUSE-2</b>	5 x 20 mm type
<b>Weight</b>	140g

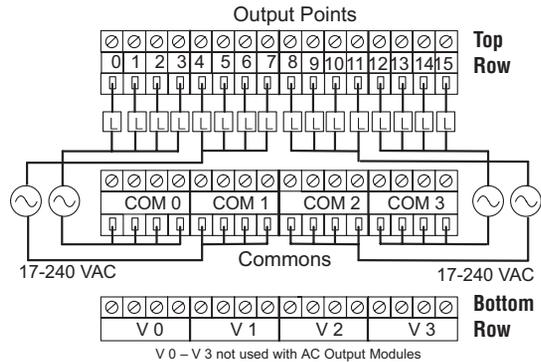
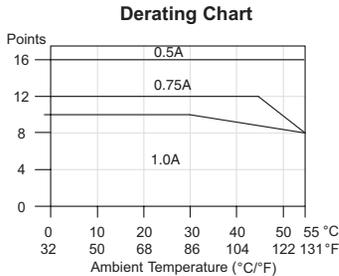
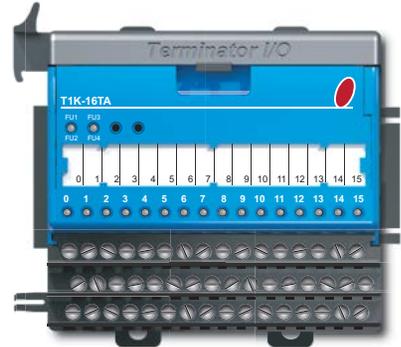


### Equivalent Output Circuit

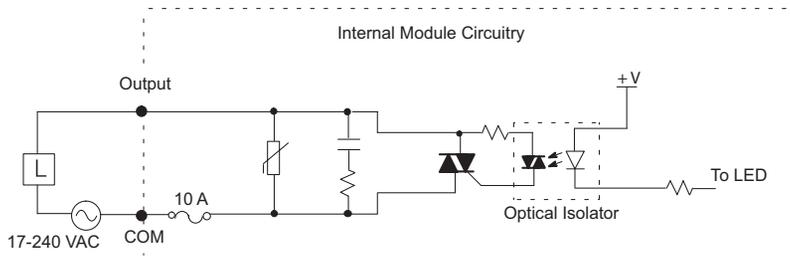


# T1K-16TA - AC Output

Specifications	
<b>Outputs Per Module</b>	16
<b>Commons Per Module</b>	4, 4 pts. / common (Isolated)
<b>Operating Voltage Range</b>	17–240 VAC (47–63 Hz)
<b>Output Voltage Range</b>	15–264 VAC (47–63 Hz) min. / max.
<b>Max. Load Current</b>	1A / pt., 4A / common (Subject to derating)
<b>ON Voltage Drop</b>	1.5 VAC @ > 50mA, 4.0 VAC @ < 50mA
<b>Max. Leakage Current</b>	4mA @ 264VAC
<b>Max. Inrush Current</b>	10A for 10ms
<b>Min. Load</b>	10mA
<b>OFF to ON Response</b>	< 1ms
<b>ON to OFF Response</b>	< 1ms + 1/2 cycle
<b>Base Power Requirements</b>	450mA @ 5VDC
<b>Status Indicators</b>	Logic Side
<b>Error Status Indicators (LEDs)</b>	FU1 / FU2 ON = fuse 1 or 2 blown FU3 / FU4 ON = fuse 3 or 4 blown
<b>Fuses (User Replaceable)</b>	4, (10A, 250V / common), (4 pts. / fuse)
<b>T1K-FUSE-2</b>	5 x 20 mm type
<b>Weight</b>	190g

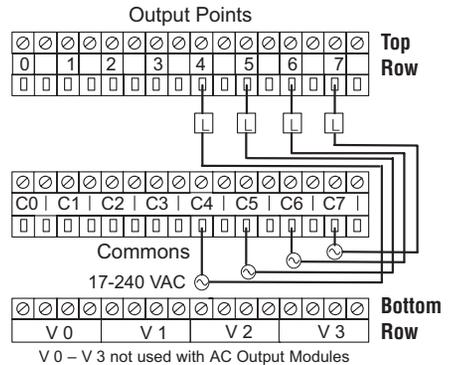
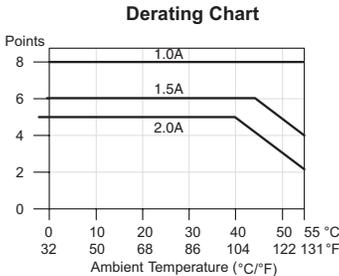
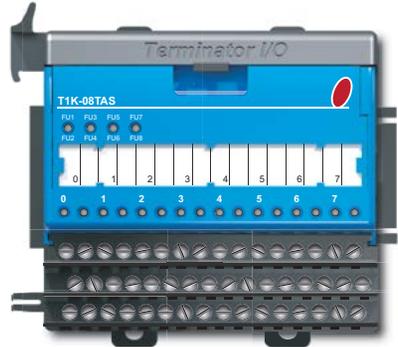


## Equivalent Output Circuit



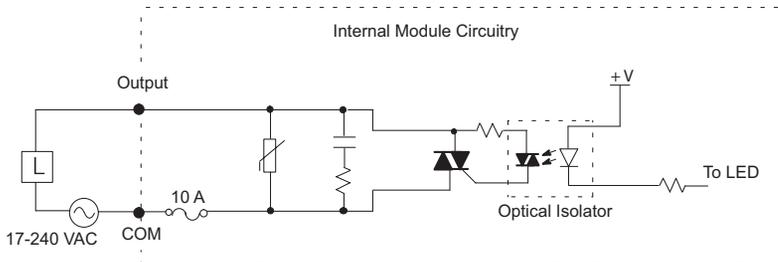
# T1K-08TAS - Isolated AC Output

Specifications	
<b>Outputs Per Module</b>	8
<b>Commons Per Module</b>	8, 1 pt. / common (Isolated)
<b>Operating Voltage Range</b>	17–240 VAC (47–63 Hz)
<b>Output Voltage Range</b>	15–264 VAC (47–63 Hz) min. / max.
<b>Max. Load Current</b>	2A / pt. common (subject to derating)
<b>ON Voltage Drop</b>	1.5 VAC @ > 50mA, 4.0 VAC @ < 50mA
<b>Max. Leakage Current</b>	4mA @ 264VAC
<b>Max. Inrush Current</b>	10A for 10ms
<b>Min. Load</b>	10mA
<b>OFF to ON Response</b>	< 1ms
<b>ON to OFF Response</b>	< 1ms + 1/2 cycle
<b>Base Power Requirements</b>	300mA @ 5VDC
<b>Status Indicators</b>	Logic Side
<b>Error Status Indicators (LEDs)</b>	FU1 / FU2 ON = fuse 1 or 2 blown FU3 / FU4 ON = fuse 3 or 4 blown FU5 / FU6 ON = fuse 5 or 6 blown FU7 / FU8 ON = fuse 7 or 8 blown
<b>Fuses (User Replaceable) T1K-FUSE-3</b>	8 (10A, 250V / common), (1 pt. / fuse)
<b>Weight</b>	190g



**Note:** Apply the labels that come with the I/O module to the I/O base to properly identify the terminal points.

### Equivalent Output Circuit

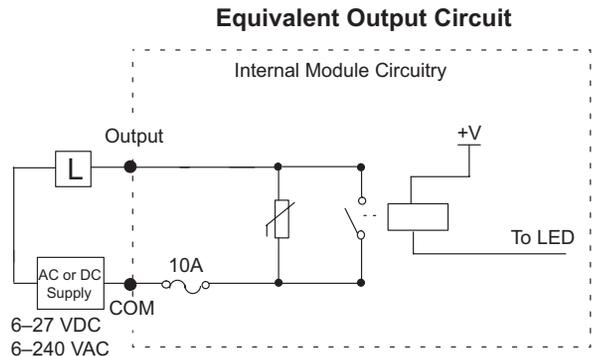
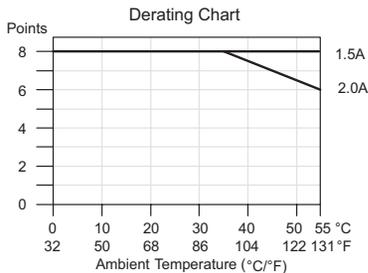
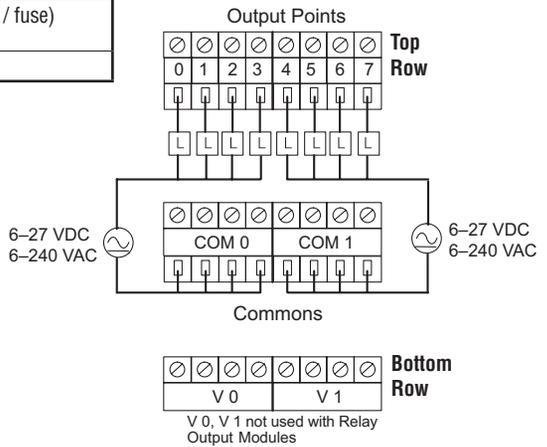


# T1K-08TR - Relay Output

Specifications	
<b>Outputs Per Module</b>	8
<b>Output Type</b>	Relay Form A (SPST) normally open
<b>Commons Per Module</b>	2, 4 pts. / common (Isolated)
<b>Operating Voltage Range</b>	6–240 VAC (47–63 Hz), 6–27 VDC
<b>Output Voltage Range</b>	5–264 VAC (47–63 Hz) min. / max. 5–30 VDC min / max
<b>Max. Load Current</b>	2A / pt., 8A / common
<b>Max. Leakage Current</b>	0.1 mA @ 264VAC
<b>Max. Inrush Current</b>	6A for 10ms / pt.; 20A for 10ms / common
<b>Min. Load</b>	5mA @ 5VDC
<b>OFF to ON Response</b>	<15ms
<b>ON to OFF Response</b>	<10ms
<b>Base Power Requirements</b>	350mA @ 5VDC
<b>Status Indicators</b>	Logic Side
<b>Error Status Indicators (LEDs)</b>	FU1 ON = fuse 1 blown FU2 ON = fuse 2 blown
<b>Fuses (User Replaceable)</b>	2 (10A, 250V / common), (4 pts. / fuse) T1K-FUSE-2
<b>Weight</b>	110g



Typical Relay Life (Operations) at Room Temperature		
Voltage & Type of Load	Load Current	
	1 A	2 A
24VDC Resistive	500K	250K
24VDC Solenoid	100K	50K
110VAC Resistive	500K	250K
110VAC Resistive	200K	100K
220VAC Resistive	350K	200K
220VAC Resistive	100K	50K

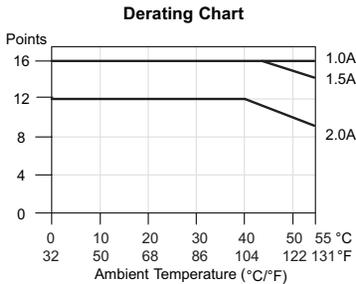
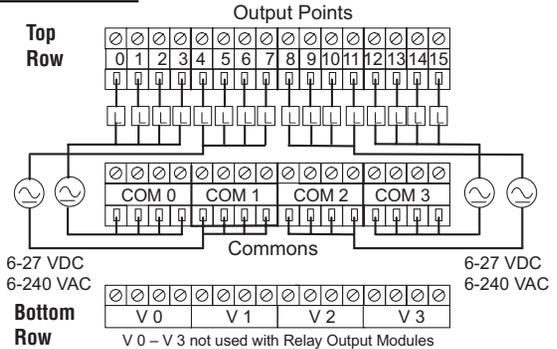


# T1K-16TR - Relay Output

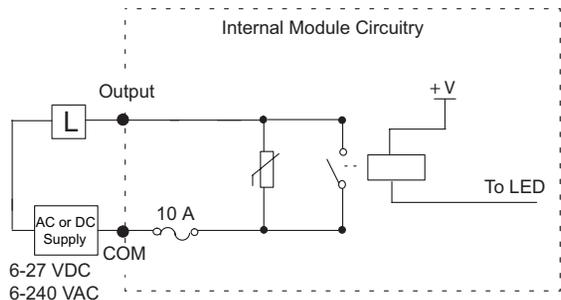
Specifications	
<b>Outputs Per Module</b>	16
<b>Output Type</b>	Relay Form A (SPST) normally open
<b>Commons Per Module</b>	4, 4pts. / common (Isolated)
<b>Operating Voltage Range</b>	6–240 VAC (47–63 Hz), 6–27 VDC
<b>Output Voltage Range</b>	5–264 VAC (47–63 Hz) min / max 5–30 VDC min / max
<b>Max. Load Current</b>	2A / pt., 6A / common
<b>Max. Leakage Current</b>	0.1 mA @ 264VAC
<b>Max. Inrush Current</b>	6A for 10ms / pt.; 20A for 10ms / common
<b>Min. Load</b>	5mA @ 5VDC
<b>OFF to ON Response</b>	< 15ms
<b>ON to OFF Response</b>	< 10ms
<b>Base Power Requirements</b>	700mA @ 5VDC
<b>Status Indicators</b>	Logic Side
<b>Error Status Indicators (LEDs)</b>	FU1 / FU2 ON = fuse 1 or fuse 2 blown FU3 / FU4 ON = fuse 3 or fuse 4 blown
<b>Fuses (User Replaceable)</b>	4 (10A, 250V / common), (4pts. / fuse) 5 x 20 mm type
<b>Weight</b>	200g



Typical Relay Life (Operations) at Room Temperature		
Voltage & Type of Load	Load Current	
	1 A	2 A
24VDC Resistive	500K	250K
24VDC Solenoid	100K	50K
110VAC Resistive	500K	250K
110VAC Resistive	200K	100K
220VAC Resistive	350K	200K
220VAC Resistive	100K	50K



## Equivalent Output Circuit



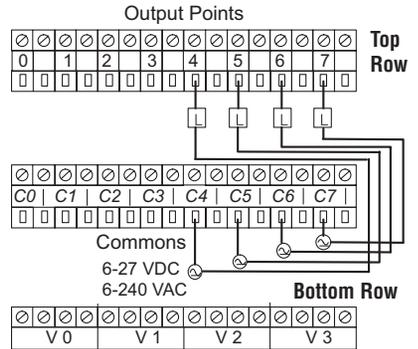
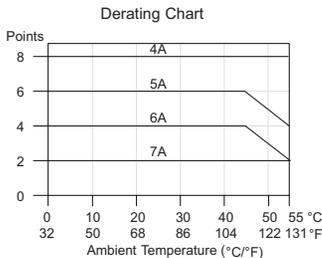
# T1K-08TRS - Isolated Relay Output

Specifications	
<b>Outputs Per Module</b>	8
<b>Output Type</b>	Relay Form A (SPST) normally open
<b>Commons Per Module</b>	8, 1pt. / common (isolated)
<b>Operating Voltage Range</b>	6–240 VAC (47–63 Hz), 6–27 VDC
<b>Output Voltage Range</b>	5–264 VAC (47–63 Hz) min. / max. 5–30 VDC min. / max.
<b>Max. Load Current</b>	7A / pt. common (Subject to derating)
<b>Max. Leakage Current</b>	0.1 mA @ 264VAC
<b>Max. Inrush Current</b>	8A for 10ms
<b>Min. Load</b>	5mA @ 5VDC
<b>OFF to ON Response</b>	< 15ms
<b>ON to OFF Response</b>	< 10ms
<b>Base Power Requirements</b>	400mA @ 5VDC
<b>Status Indicators</b>	Logic Side
<b>Error Status Indicators (LEDs)</b>	FU1 / FU2 ON = fuse 1 or fuse 2 blown FU3 / FU4 ON = fuse 3 or fuse 4 blown FU5 / FU6 ON = fuse 5 or fuse 6 blown FU7 / FU8 ON = fuse 7 or fuse 8 blown
<b>Fuses (User Replaceable) T1K-FUSE-3</b>	8 (10A, 250V / common), (1 pt. / fuse) NQ3-10 SOC Corp.
<b>Weight</b>	185g



Typical Relay Life (Operations) at Room Temperature				
Voltage & Type of Load	Load Current			
	1 A	2 A	5 A	7 A
24VDC Resistive	1000K	500K	200K	100K
24VDC Solenoid	300K	100K	*	*
110VAC Resistive	1000K	500K	200K	100K
110VAC Resistive	300K	100K	*	*
220VAC Resistive	500K	250K	125K	60K
220VAC Resistive	300K	100K	*	*

\*Solenoid (inductive) loads > 2A cannot be used.



Note: V 0 – V 3 not used on Relay Output Modules

**Note:** Apply the labels that come with the I/O module to the I / O base to properly identify the terminal points.

## Equivalent Output Circuit

