PRODUCT SUMMARY

Macromatic offers a wide variety of time delay relays and accessories. Each one has different features and operating characteristics, allowing you to choose the exact product to meet your needs. Our time delay relays are available in either programmable or non-programmable versions. We offer both single or multiple function time delay relays. Choose between SPDT or DPDT relay outputs & solid state outputs for high duty cycle applications. Time delay relays are available as plug-in units for use with industry standard 8 & 11 pin octal sockets. They also come in 2" x 2" encapsulated & 1/16 DIN mounting configurations. Choose between analog or digital-set time delay relays. Refer to the Selection Table on this page for more information.

Produc	t Series	Mounting Configuration	Time Delay Setting & Ranges	Functions	Input Voltages	Output	See Pages
1 1 2 2V- 2	THR Series Relay Output		Analog-Set 0.1 SEC - 100 HR	Single- Function	12VDC, 24VAC/DC, 120VAC/DC, 240VAC	10A SPDT Relay	43-49
To produce the second of the s	THS Series Solid State Output	2" x 2" Encapsulated Panel Mounted with One Screw	Analog-Set 0.01 SEC - 100 HR	Single- Function	24-240VAC, 12-48VDC	1A SPNO Solid State	50-53
L. L	THL Series Solid State Inline (Series) Output		Analog-Set 0.01 SEC - 100 HR	Single- Function	240-240VAC & 12-48VDC	1A SPNO Solid State	54-55
Guerrania Guerrania Guerrania Guerrania Guerrania	TR-5 Series Standard		Analog-Set 0.05 SEC - 2 HR	Single- Function	12VDC, 24VAC/DC, 120VAC/DC, 240VAC	10A DPDT 10A SPDT Relay	56-59 60-61
Section 1	TR-6 Series Time Ranger Programmable		Analog-Set Multi-Range 0.1 SEC - 24 HR	Single- Function	12VAC/DC, 24VAC/DC, 120VAC/DC, 240VAC	10A DPDT Relay	62-65
With a second se	TD-8 Series Time Ranger Digital-Set Programmable	Plug-in Utilizing Industry-Standard 8 & 11 Pin Sockets	Digital-Set Multi-Range 0.1 SEC - 1,023 HR	Multi-Function (16) & Single- Function	12VAC/DC, 24VAC/DC, 120VAC/DC, 240VAC	10A DPDT 10A SPDT Relay	66-68
	TD-7 Series Time Ranger Digital-Set Programmable		Digital-Set Multi-Range 0.05 SEC - 999 HR	Multi-Function (10) & Single- Function	12VAC/DC, 24VAC/DC, 120VAC/DC, 240VAC	10A DPDT 10A SPDT Relay	69-71
	SS-6 & SS-8 Series Compact		Analog-Set 0.2 - 300 SEC	Single- Function	12VDC, 24VAC/DC, 120VAC	5A SPDT Relay	76
MACROMATE 15.5 mm minimum 15.5 mm mini	TAD Series Digital-Set 1/16 DIN	1/16 DIN	Digital-Set Multi-Range 0.01 SEC - 9,990 HR	Multi-Function (10)	24-240VAC & 24-240VDC	5A DPDT Relay	72-73
TONS MACROMATIC OUT	TAA Series Analog-Set 1/16 DIN	(48mm²)	Digital-Set Multi-Range 0.05 SEC - 100 HR	Multi-Function (6)2 Versions	24-240VAC & 24-240VDC	3A DPDT & SPDT Relay	74-75

42

TR-5 SERIES NON-PROGRAMMABLE PLUG-IN

ON DELAY, INTERVAL & FLASHER



- Onboard & remote adjustable or fixed time delays from 0.05 seconds to 2 hours
- Uses industry-standard 8 pin octal sockets
- ◆ 10A DPDT output contacts



FUNCTION ■	INPUT VOLTAGE 50/60Hz.	PRODUCT NUMBER **	WIRING/ SOCKETS ▲
ON DELAY	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-50222-** TR-50226-** TR-50228-** TR-50221-**	8 PIN OCTAL 70169-D
INTERVAL ON	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-50522-** TR-50526-** TR-50528-** TR-50521-**	3 4 5 6 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
FLASHER (OFF 1st)	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-50822-** TR-50826-** TR-50828-** TR-50821-**	OIAGRAM 1

- See Pages 77-79 for definitions & explanations of Timing Functions.
- ** Complete Product Number using two-digit Code from Table below.
- ▲ Note: if these products are ordered with the Remote Adjustable Time Delay modification (suffix -Rx), they will require an 11 pin octal socket–see www.macromatic.com/remote for information.

TIME DELAYS

TR-5 Series Products have three time delay options:

- Onboard Adjustable Time Delay--complete
 Product Number by adding two-digit Code from
 Table at right, i.e., TR-50222-05 is an On Delay
 with a time delay range of 0.1-10 seconds.
- Onboard Fixed Time Delay--replace two-digit Code with suffix "F" followed by delay [0.1 ... 100] followed by (S) seconds, (M) minutes or (H) hours, i.e., TR-50222-F5S is an On Delay with a time delay fixed at 5 seconds.
- Remote Adjustable Time Delay--Selected TR-5
 Series products can be built with two terminals
 for remote adjustable or fixed time delays. See
 www.macromatic.com/remote
 for information.

** TIMING RANGE	TABLE
Time Delay Range	Code
0.05 - 5 Sec.	04
0.1 - 10 Sec.	05
0.3 - 30 Sec.	07
0.6 - 60 Sec.	80
1.2 - 120 Sec.	09
1.8 - 180 Sec.	10
3 - 300 Sec.	12
0.1 - 10 Min.	22
0.3 - 30 Min.	15
0.6 - 60 Min.	16
1.2 - 120 Min.	17



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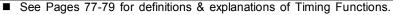
www.macromatic.com sales@macromatic.com

Application Data & Dimensions—Page 59 Sockets & Accessories—Pages 80 & 81

56

TR-5 SERIES NON-PROGRAMMABLE PLUG-IN OFF DELAY, SINGLE SHOT, WATCHDOG & SINGLE SHOT FALLING EDGE

FUNCTION ■ ▲	INPUT VOLTAGE 50/60Hz.	PRODUCT NUMBER **	WIRING/ SOCKETS ▲
OFF DELAY	120V AC/DC	TR-51622-**	11 PIN OCTAL
Control Switch Trigger	12V DC	TR-51626-**	70170-D
C	24V AC/DC	TR-51628-**	r TRIGGER
C	240V AC	TR-51621-**	IKIGGEK
SINGLE SHOT	120V AC/DC	TR-51522-**	45 6 7
Control Switch Trigger	12V DC	TR-51526-**	173 A 3F 7
<u> </u>	24V AC/DC	TR-51528-**	2\111/10
D	240V AC	TR-51521-**	
WATCHDOG	120V AC/DC	TR-51322-**	~ \ + \ , - \ ~
Control Switch Trigger	12V DC	TR-51326-**	V
(Retriggerable	24V AC/DC	TR-51328-**	DIAGRAM 2
Single Shot)	240V AC	TR-51321-**	
SINGLE SHOT	120V AC/DC	TR-52222-**	
FALLING EDGE	12V DC	TR-52226-**	
Control Switch Trigger	24V AC/DC	TR-52228-**	
H	240V AC	TR-52221-**	
OFF DELAY	120V AC/DC	TR-51922-**	11 PIN OCTAL
Power Trigger	12V DC	TR-51926-**	70170-D
C	24V AC/DC	TR-51928-**	POWER TRIGGER *
	240V AC	TR-51921-**	+ -
SINGLE SHOT	120V AC/DC	TR-51722-**	5 6 7
Power Trigger	12V DC	TR-51726-**	= 13 8 = 3
D	24V AC/DC	TR-51728-**	2\ 111/10
	240V AC	TR-51721-**	
WATCHDOG	120V AC/DC	TR-51822-**	~ 6+,, -6~
Power Trigger	12V DC	TR-51826-**	* SHOULD BE SAME VOLTAGE
(Retriggerable	24V AC/DC	TR-51828-**	* SHOULD BE SAME VOLTAGE AS INPUT VOLTAGE
Single Shot)	240V AC	TR-51821-**	DIAGRAM 4



** Complete Product Number using two-digit Code from Table below.

▲ 8 Pin SPDT versions of these functions (except Single Shot Falling Edge) are available—see Page 60.

TIME DELAYS

TR-5 Series Products have three time delay options:

- Onboard Adjustable Time Delay--complete
 Product Number by adding two-digit Code from
 Table at right, i.e., TR-51622-05 is an Off Delay
 with a time delay range of 0.1-10 seconds.
- Onboard Fixed Time Delay--replace two-digit
 Code with suffix "F" followed by delay [0.1 ... 100]
 followed by (S) seconds, (M) minutes or (H)
 hours, i.e., TR-51622-F5S is an Off Delay with a
 time delay fixed at 5 seconds.
- Remote Time Delay--Selected TR-5 Series products can be built with two terminals for remote adjustable or fixed time delays. See www.macromatic.com/remote for information.

** TIMING RANGE	TABLE
Time Delay Range	Code
0.05 - 5 Sec.	04
0.1 - 10 Sec.	05
0.3 - 30 Sec.	07
0.6 - 60 Sec.	08
1.2 - 120 Sec.	09
1.8 - 180 Sec.	10
3 - 300 Sec.	12
0.1 - 10 Min.	22
0.3 - 30 Min.	15
0.6 - 60 Min.	16
1.2 - 120 Min.	17

Application Data & Dimensions—Page 59 Sockets & Accessories—Pages 80 & 81



- Onboard & remote adjustable or fixed time delays from 0.05 seconds to 2 hours
- Uses industry-standard
 11 pin octal sockets
- ◆ 10A DPDT output contacts











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TR-5 SERIES NON-PROGRAMMABLE PLUG-IN

REPEAT CYCLE & DELAYED INTERVAL



- Onboard & remote adjustable or fixed time delays from 0.05 seconds to 2 hours
- Independently adjustable ON & OFF times
- Uses industry-standard 8 or 11 pin octal sockets
- ◆ 10A DPDT output contacts









FUNCTION ■	INPUT VOLTAGE 50/60Hz.	PRODUCT NUMBER **	WIRING/ SOCKET
REPEAT CYCLE* (OFF Time First Followed By ON Time and Repeating)	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-53122-** TR-53126-** TR-53128-** TR-53121-**	8 PIN OCTAL 70169-D
REPEAT CYCLE* (ON Time First Followed By OFF Time and Repeating)	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-55122-** TR-55126-** TR-55128-** TR-55121-**	3 4 3 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
OFF Time Followed by ON Time Followed by OFF State Until Reset)	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-56122-** TR-56126-** TR-56128-** TR-56121-**	DIAGRAM 1
ON/OFF DELAY* Control Switch Trigger	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-54122-** TR-54126-** TR-54128-** TR-54121-**	11 PIN OCTAL 70170-D
DELAYED INTERVAL* Control Switch Trigger (OFF Time Followed by ON Time Followed by OFF State Until Reset)	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-56522-** TR-56526-** TR-56528-** TR-56521-**	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

- See Pages 77-79 for definitions & explanations of Timing Functions.
- * ON & OFF Time Ranges for these functions are the same. See www.macromatic.com/onoff for information on how to order a unit with different ON & OFF time ranges.
- ** Complete Product Number using two-digit Code from Table below.

TIME DELAYS

TR-5 Series Products have three time delay options:

- Onboard Adjustable Time Delay--complete
 Product Number by adding two-digit Code from
 Table at right, i.e., TR-53122-05 is a Repeat
 Cycle with both an ON & OFF time delay range
 of 0.1-10 seconds. See www.macromatic.com/
 onoff for information on how to order a unit with
 different ON & OFF time ranges.
- Onboard Fixed Time Delay--replace two-digit Code with suffix "F" followed by delay [0.1 ... 100] followed by (S) seconds, (M) minutes or (H) hours, i.e., TR-53122-F5S is a Repeat Cycle with a time delay fixed at 5 seconds.
- Remote Time Delay--Selected TR-5 Series products can be built with two terminals for remote adjustable or fixed time delays. See www.macromatic.com/remote for information.

** TIMING RANGE	TABLE
Time Delay Range	Code
0.05 - 5 Sec.	04
0.1 - 10 Sec.	05
0.3 - 30 Sec.	07
0.6 - 60 Sec.	80
1.2 - 120 Sec.	09
1.8 - 180 Sec.	10
3 - 300 Sec.	12
0.1 - 10 Min.	22
0.3 - 30 Min.	15
0.6 - 60 Min.	16
1 2 - 120 Min	17



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Application Data & Dimensions—Page 59 Sockets & Accessories—Pages 80 & 81

58 8/11

TR-5 SERIES NON-PROGRAMMABLE PLUG-IN **APPLICATION DATA & DIMENSIONS**

APPLICATION DATA

Voltage Tolerance:

AC Operation: +10/-15% of nominal at 50/60 Hz.

DC Operation: +10/-15% of nominal.

Load (Burden):

Maximum of 2 VA for all voltages

Setting Accuracy:

Maximum Setting (Adjustable): +5%, -0% Minimum Setting (Adjustable): +0%, -50%

Fixed Time Delay: <u>+</u>2%

Repeat Accuracy (constant voltage and temperature):

+0.1% or + 0.04 seconds, whichever is greater

Reset Time:

Input Voltage (All Functions) 0.100 Seconds Triggered Functions only 0.04 Seconds

Start-up Time:

(Time from when power is applied until unit is timing) 0.05 Seconds

Maintain Function Time:

(Time unit continues to operate after power is removed) 0.01 Seconds for all units

Temperature:

-28° to 65°C (-18° to 149°F)

Output Contacts:

DPDT 10A @ 240V AC/30V DC,

1/2HP @ 120/240V AC (N.O.), 1/3HP @ 120/240V AC (N.C.)

B300 & R300; AC15 & DC13

Life:

Mechanical: 10,000,000 operations Full Load: 100,000 operations

Compatibility:

Using a solid state switch to initiate the time sequence is acceptable. See www.macromatic.com/leakage or contact Macromatic for information regarding leakage current limits and other solid state design considerations.

Triggering Off Delay, Single Shot or Watchdog Units:

Timing sequence must be initiated only after input voltage is applied to unit. Minimum required trigger switch closure time is 0.05 seconds.

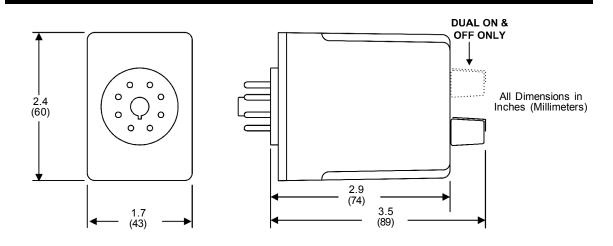
Approvals:

File #E109466 File #LR45565

Low Voltage & **EMC Directives** EN60947-1, EN60947-5-1

LISTED appropriate socket File #E109466

DIMENSIONS



8/11

TIME DELAY RELAYS DEFINITION OF TIMING FUNCTIONS

Understanding the differences between all the functions available in time delay relays can sometimes be a daunting task. To begin with, time delay relays are simply control relays with a time delay built in. Their purpose is to control an event based on time.

Typically, time delay relays are initiated or triggered by one of two methods, depending on the function:

- application of input voltage
- application of a trigger

These triggers can be one of two signals: a control switch (dry contact), i.e., limit switch, push button, float switch, etc., or voltage (commonly known as a power trigger).

To help understand, some definitions are important:

- ◆ <u>Input Voltage</u> control voltage applied to the input terminals. Depending on the function, input voltage will either initiate the unit or make it ready to initiate when a trigger is applied.
- ◆ <u>Trigger</u>- on certain timing functions, a trigger is used to initiate the unit after input voltage has been applied. As noted above, this trigger can either be a control switch (dry contact switch) or a power trigger (voltage).
- ◆ Output (Load) every time delay relay has an output (either mechanical relay or solid state) that will open & close to control the load. Note that the user must provide the voltage to power the load being switched by the output contacts of the time delay relay. In all wiring diagrams, the output is shown in the normal de-energized position.

Below and on the following pages are both written and visual descriptions on how the common timing functions operate. A Timing Chart shows the relationship between Input Voltage, Trigger (if present) and Output. If you cannot find a product to fit your requirements or have any questions, Macromatic's Application Engineers offer technical information along with product selection and application assistance. Just call us at 800-238-7474 or e-mail us at tech-help@macromatic.com.

Function/Code	Operation	Timing Chart
ON DELAY Delay on Operate Delay on Make	Upon application of input voltage, the time delay (t) begins. At the end of the time delay (t), the output is energized. Input voltage must be removed to reset the time delay relay & de-energize the output	OUTPUT t t
INTERVAL ON Interval B	Upon application of input voltage, the output is energized and the time delay (t) begins. At the end of the time delay (t), the output is de-energized. Input voltage must be removed to reset the time delay relay.	OUTPUT t t
OFF DELAY Delay on Release Delay on Break Delay on De- Energization	Upon application of input voltage, the time delay relay is ready to accept a trigger. When the trigger is applied, the output is energized. Upon removal of the trigger, the time delay (t) begins. At the end of the time delay (t), the output is de-energized. Any application of the trigger during the time delay will reset the time delay (t) and the output remains energized.	INPUT VOLTAGE TRIGGER OUTPUT t <t t<="" td=""></t>
SINGLE SHOT One Shot Momentary Interval	Upon application of input voltage, the time delay relay is ready to accept a trigger. When the trigger is applied, the output is energized and the time delay (t) begins. During the time delay (t), the trigger is ignored. At the end of the time delay (t), the output is de-energized and the time delay relay is ready to accept another trigger.	INPUT VOLTAGE TRIGGER OUTPUT t t

8/11 77

DEFINITION OF TIMING FUNCTIONS

Function/Code	Operation	Timing Chart
FLASHER (Off First)	Upon application of input voltage, the time delay (t) begins. At the end of the time delay (t), the output is energized and remains in that condition for the time delay (t). At the end of the time delay (t), the output is de-energized and the sequence repeats until input voltage is removed.	OUTPUT t t t <
FLASHER (ON First)	Upon application of input voltage, the output is energized and the time delay (t) begins. At the end of the time delay (t), the output is de-energized and remains in that condition for the time delay (t). At the end of the time delay (t), the output is energized and the sequence repeats until input voltage is removed.	OUTPUT t t t <
ON/OFF DELAY	Upon application of input voltage, the time delay relay is ready to accept a trigger. When the trigger is applied, the time delay (t1) begins. At the end of the time delay (t1), the output is energized. When the trigger is removed, the output contacts remain energized for the time delay (t2). At the end of the time delay (t2), the output is de-energized & the time delay relay is ready to accept another trigger. If the trigger is removed during time delay period (t1), the output will remain de-energized and time delay (t1) will reset. If the trigger is removed during time delay period (t2), the output will remain energized and the time delay (t2) will reset.	INPUT VOLTAGE TRIGGER OUTPUT t1 t2
SINGLE SHOT FALLING EDGE	Upon application of input voltage, the time delay relay is ready to accept a trigger. When the trigger is applied, the output remains de-energized. Upon removal of the trigger, the output is energized and the time delay (t) begins. At the end of the time delay (t), the output is de-energized unless the trigger is removed and re-applied prior to time out (before time delay (t) elapses). Continuous cycling of the trigger at a rate faster than the time delay (t) will cause the output to remain energized indefinitely.	INPUT VOLTAGE TRIGGER OUTPUT t <t t<="" th=""></t>
WATCHDOG Retriggerable Single Shot	Upon application of input voltage, the time delay relay is ready to accept a trigger. When the trigger is applied, the output is energized and the time delay (t) begins. At the end of the time delay (t), the output is de-energized unless the trigger is removed and re-applied prior to time out (before time delay (t) elapses). Continuous cycling of the trigger at a rate faster than the time delay (t) will cause the output to remain energized indefinitely.	INPUT VOLTAGE TRIGGER OUTPUT t <t t<="" th=""></t>
TRIGGERED ON DELAY	Upon application of input voltage, the time delay relay is ready to accept a trigger. When the trigger is applied, the time delay (t) begins. At the end of the time delay (t), the output is energized and remains in that condition as long as either the trigger is applied or the input voltage remains. If the trigger is removed during the time delay (t), the output remains de-energized & the time delay (t) is reset.	INPUT VOLTAGE TRIGGER OUTPUT t <t< th=""></t<>

78

DEFINITION OF TIMING FUNCTIONS

Function/Code	Operation	Timing Chart
REPEAT CYCLE (OFF 1st)	Upon application of input voltage, the time delay (t1) begins. At the end of the time delay (t1), the output is energized and remains in that condition for the time delay (t2). At the end of this time delay, the output is de-energized and the sequence repeats until input voltage is removed.	OUTPUT t1 t2 t1 t2 <t1< td=""></t1<>
REPEAT CYCLE (ON 1st)	Upon application of input voltage, the output is energized and the time delay (t1) begins. At the end of the time delay (t1), the output is de-energized and remains in that condition for the time delay (t2). At the end of this time delay, the output is energized and the sequence repeats until input voltage is removed.	INPUT VOLTAGE OUTPUT t1 t2 t1 t2 <t1< td=""></t1<>
DELAYED INTERVAL Single Cycle	Upon application of input voltage, the time delay (t1) begins. At the end of the time delay (t1), the output is energized and remains in that condition for the time delay (t2). At the end of this time delay (t2), the output is de-energized. Input voltage must be removed to reset the time delay relay.	OUTPUT t1 t2 t1 t2
TRIGGERED DELAYED INTERVAL	Upon application of input voltage, the time delay relay is ready to accept a trigger. When the trigger is applied, the time delay (t1) begins. At the end of the time delay (t1), the output is energized and remains in that condition for the time delay (t2). At the end of the time delay (t2), the output is de-energized & the relay is ready to accept another trigger. During both time delay (t1) & time delay (t2), the trigger is ignored.	INPUT VOLTAGE TRIGGER OUTPUT t1 t2 t1 t2
TRUE OFF DELAY	Upon application of input voltage, the output is energized. When the input voltage is removed, the time delay (t) begins. At the end of the time delay (t), the output is deenergized. Input voltage must be applied for a minimum of 0.5 seconds to assure proper operation. Any application of the input voltage during the time delay (t) will reset the time delay. No external trigger is required.	INPUT VOLTAGE OUTPUT t t
ON DELAY/ TRUE OFF DELAY	Upon application of input voltage, the time delay (t1) begins. At the end of the time delay (t1), the output is energized. When the input voltage is removed, the output remains energized for the time delay (t2). At the end of the time delay (t2), the output is de-energized. Input voltage must be applied for a minimum of 0.5 seconds to assure proper operation. Any application of the input voltage during the time delay (t2) will keep the output energized & reset the time delay (t2). No external trigger is required.	OUTPUT t1 t2 t1 t2
SINGLE SHOT- FLASHER	Upon application of input voltage, the time delay relay is ready to accept a trigger. When the trigger is applied, the time delay (t1) begins and the output is energized for the time delay (t2). At the end of this time delay (t2), the output is de-energized and remains in that condition for the time delay (t2). At the end of the time delay (t2), the output is energized and the sequence repeats until time delay (t1) is completed. During the time delay (t1), the trigger is ignored.	INPUT VOLTAGE TRIGGER OUTPUT t2 t2 t2 t2 <t2< td=""></t2<>
ON DELAY- FLASHER X	Upon application of input voltage, the time delay begins (t1). At the end of the time delay (t1), the output is energized and remains in that condition for the time delay (t2). At the end of this time delay (t2), the output is de-energized and remains in that condition for the time delay (t2). At the end of the time delay (t2), the output is energized and the sequence repeats until input voltage is removed.	OUTPUT t1 t2 t2 <t2< td=""></t2<>

8/11

SOCKETS & ACCESSORIES

8 Pin Octal Socket--**Surface or DIN Rail-Mounted**

10A @ 600V * 1 or 2 #12-22 AWG Wire Recommended Tightening Torque of 6-7 in-lbs. (12 in-lbs maximum) **Pressure Wire Clamp Terminations**



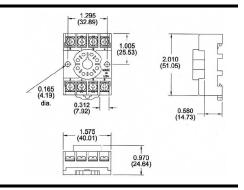




File #E169693 File #LR701114

Product Number 70169-D





11 Pin Octal Socket--Surface or DIN Rail-Mounted

10A @ 300V 1 or 2 #12-22 AWG Wire Recommended Tightening Torque of 6-7 in-lbs. (12 in-lbs maximum) Pressure Wire Clamp Terminations



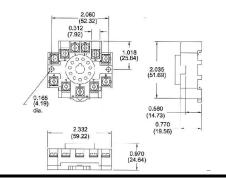




File #E169693 File #LR701114

Product Number 70170-D





8 Pin Octal Socket--

Back-Mounted

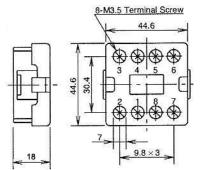
10A @ 300V **Pressure Wire Clamp Terminations**



File #E62437

Product Number SR6P-M08G





11 Pin Octal Socket--**Back-Mounted**

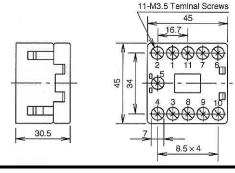
10A @ 300V **Pressure Wire Clamp Terminations**



File #E62437

Product Number SR6P-M11G





12 Pin Socket--**Surface-Mounted**

10A @ 600V #12-20 AWG Wire **Pressure Wire Clamp Terminations**



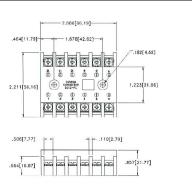


File #E60008 File #LR29513

NOTE: if a 12 Pin Socket is required for DINrail mounting, please contact Macromatic.

Product Number SD12-PC





Plug-in Three-Phase Monitor Relays require a 600V-rated socket when used on system voltages greater than 300V.

SOCKETS & ACCESSORIES

Hold Down Spring Product Number 70166

Can be used for:

- ◆ Panel-Mounted Sockets
- ◆ Sockets Mounted to 35mm DIN Track *
- Requires two machine screws with washers & nutscontact Macromatic or <u>www.macromatic.com/70166</u> for more information.





DIN Rail Adaptor Kit Product Number 70500

Quick & Economical Way to Install Any THx Series 2" x 2" Encapsulated Time Delay Relays on 35mm DIN Track

- Clip Comes with a Threaded Hole to Eliminate Need for a Washer & Nut
- All Mounting Hardware Included



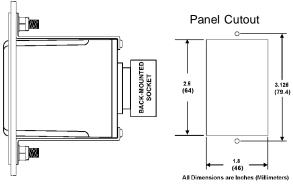


Panel Mount Assembly For Panel Mounting Standard Plug-in Products Product Number 70400

This assembly provides a simple & economical method to mount plug-in products to the deadfront of an enclosure/panel:

- ◆ Sturdy Aluminum Construction
- ◆ Stainless Steel Studs
- ◆ All Mounting Hardware Included
- ◆ White Textured Painted Finish
- ◆ 2 3/16" W x 3 7/16" H





(Relay Not Included with Assembly-Shown for Reference Only)

INDEX BY PRODUCT NUMBER

											•
Product *	<u>Page</u>	Product *	Page								
70166	81	ARP024A6	32	ATP024A1R	36	CMKP10A68	18	COKP01A68	19	COP10A62	19
70169-D	80	ARP024A6R	32	ATP024A7R	36	CMP01A22	18	COKP05A22	19	COP10A68	19
70170-D	80	ARP120A2	32	ATP120A1	36	CMP01A28	18	COKP05A28	19	CUH05Ayyy ***	16
70400	81	ARP120A2R	32	ATP120A1R	36	CMP01A62	18	COKP05A62	19	CUH20Ayyy ***	16
70500	81	ARP120A3	34	ATP120A7R	36	CMP01A68	18	COKP05A68	19	CUH50Ayyy ***	16
ARP012A2	32	ARP120A3R	34	CAH05Ayyy	16	CMP05A22	18	COKP10A22	19	CUP01A22	20
ARP012A2R	32	ARP120A5	34	CAH20Ayyy	16	CMP05A28	18	COKP10A28	19	CUP01A28	20
ARP012A3	34	ARP120A5R	34	CAH50Ayyy	16	CMP05A62	18	COKP10A62	19	CUP01A62	20
ARP012A3R	34	ARP120A6	32	CMKP01A22	18	CMP05A68	18	COKP10A68	19	CUP01A68	20
ARP012A5	34	ARP120A6R	32	CMKP01A28	18	CMP10A22	18	COP01A22	19	CUP05A22	20
ARP012A5R	34	ARP240A2	32	CMKP01A62	18	CMP10A28	18	COP01A28	19	CUP05A28	20
ARP012A6	32	ARP240A2R	32	CMKP01A68	18	CMP10A62	18	COP01A62	19	CUP05A62	20
ARP012A6R	32	ARP240A3	34	CMKP05A22	18	CMP10A68	18	COP01A68	19	CUP05A68	20
ARP024A2	32	ARP240A3R	34	CMKP05A28	18	COH05Ayyy	16	COP05A22	19	CUP10A22	20
ARP024A2R	32	ARP240A5	34	CMKP05A62	18	COH20Ayyy	16	COP05A28	19	CUP10A28	20
ARP024A3	34	ARP240A5R	34	CMKP05A68	18	COH50Ayyy	16	COP05A62	19	CUP10A62	20
ARP024A3R	34	ARP240A6	32	CMKP10A22	18	COKP01A22	19	COP05A68	19	CUP10A68	20
ARP024A5	34	ARP240A6R	32	CMKP10A28	18	COKP01A28	19	COP10A22	19	Continued or	1
ARP024A5R	34	ATP024A1	36	CMKP10A62	18	COKP01A62	19	COP10A28	19	Page 82	,

The "-xx" suffix denotes the time range for time delay relays with adjustable time delay. Contact Macromatic for any product not listed.

3/12

^{**} The "-yyy" suffix denotes the input voltage, trip delay & sensing delay for CxH Series encapsulated current sensing relays.

INDEX BY PRODUCT NUMBER (CONTINUED)

Product Page		_		_		_		_				
SPH20A	Product *	<u>Page</u>	Product *	<u>Page</u>	Product *	<u>Page</u>		<u>Page</u>	Product *	<u>Page</u>	Product *	Page `
PAPPIGED 8	ISP024A	40	TD-78122	69	THR-11561-xx	45	THR-16161-xx	43	TR-51521-xx	57	TR-61322	63
PAPPOIS 8 TO-80221-xx 67	ISP120A	40	TD-78126	69	THR-11561-xxJ	46	THR-16161-xxJ	44	TR-51522-xx	57	TR-61326	63
PAPPOR S	PAP120	8	TD-78128	69	THR-11561-xxJ7	Γ 48	THR-16162-xx	43	TR-51526-xx	57	TR-61328	63
PAPPARO S		8	TD-80221-xx	67	THR-11561-xxT		THR-16162-xxJ	44		57	TR-61521	63
PAPARO												
PAPABRO S T.D-B022B-XX 67												
PCP1												
PCP PCP												
PLP208 6												
PLP200												
PLP-200	PLP120	6	TD-80526-xx	67	THR-11566-xxJ	46	THR-16561-xxJ	46	TR-51622-xx	57	TR-61626	63
PLP-800	PLP208	6	TD-80528-xx	67	THR-11566-xxJ7	Γ 48	THR-16561-xxJT	T 48	TR-51626-xx	57	TR-61628	63
PLP480	PLP240	6	TD-81521-xx	67	THR-11566-xxT	47	THR-16561-xxT	47	TR-51628-xx	57	TR-61721	63
PLP480	PLP400	6	TD-81522-xx	67	THR-11568-xx	45	THR-16562-xx	45	TR-51661-xx	60	TR-61722	63
PMD100		6		67	THR-11568-xx.l		THR-16562-xx.I	46	TR-51662-xx	60	TR-61726	63
PMD000												
PMDU												
PMP120												
PMP206-PAT 12 TD-81628-xx 67 THR-11661-xx 7 THR-16666-xx 7 THR-1566-xx 68 TR-51728-xx 57 TR-61622 63 PMPU PAT 10 TD-83122-xx 67 THR-11662-xx 45 THR-15668-xx 45 THR-1566-xx 46 THR-1566-xx 47 THR-1566-xx 47 THR-1566-xx 47 THR-1566-xx 47 THR-1566-xx 47 THR-1566-xx 47 THR-1566-xx 48 THR-1566-xx 47 THR-1566-xx 47 THR-1566-xx 48 THR-1566-xx 48 THR-1566-xx 48 THR-1566-xx 48 THR-1566-xx 49 THR-1566-xx												
PMPU												
PMPU-FAB 12 TD-83122-xx 67 THR-11662-xx 45 THR-11668-xx 46 THR-1668-xx 46 THR-11668-xx 47 THR-11622-xx 47 THR-11622-xx 47 THR-11622-xx 47 THR-11622-xx 48 THR-17668-xx 48 THR-17668-xx 48 THR-17668-xx 48 THR-17668-xx 48 THR-17668-xx 48 THR-17668-xx 49 THR-11622-xx 47 THR-11668-xx 47 THR-11622-xx 47 THR-11668-xx 47 THR-11668-xx 48 THR-17668-xx 49 THR-17668-xx 47 THR-11668-xx 47 THR-11668-xx 47 THR-11668-xx 47 THR-11668-xx 47 THR-11668-xx 48 THR-17668-xx 48 THR-17668-												
PMPU-FAR2 12 TD-83128-xx 67 THR-11662-xx 48 THR-1568-xx 47 RF-51762-xx 67 THR-11662-xx 47 THR-1568-xx 48 THR-1568-xx 47 THR-1568-xx 48 THR-1568-xx 48 THR-1568-xx 49 THR-1568-xx 49 THR-1568-xx 49 THR-1568-xx 45 THR-1568-xx			TD-83121-xx		THR-11661-xxT	47	THR-16566-xxT		TR-51728-xx	57	TR-61921	
PMPU-FA8 12 TD-83128-xx 67 THR-H1662-xx1 47 THR-H1668-xx 47 THR-H1662-xx 47 THR-H1668-xx 47 THR-H1668-xx 57 TR-51768-xx 57 TR-51768 68 TR-51728-xx 57 TR-51768 68 TR-51728-xx 57 TR-51768-xx	PMPU	10	TD-83122-xx	67	THR-11662-xx	45	THR-16568-xx	45	TR-51761-xx	60	TR-61922	63
PMPU-FABK 12 TD-85121-xx 67 THR-H1666-xx 45 THS-H2668-xx 45 THS-H2668-xx 45 THS-H2668-xx 45 THS-H2668-xx 46 THS-H2668-xx 47 TR-51768-xx 57 TR-51321-x 64 THS-H2668-xx 48 THS-H2668-x	PMPU-FA12	12	TD-83126-xx	67	THR-11662-xxJ	46	THR-16568-xxJ	46	TR-51762-xx	60	TR-61926	63
PMPU-FABK 12 TD-85121-xx 67 THR-H1666-xx 45 THS-H2668-xx 45 THS-H2668-xx 45 THS-H2668-xx 45 THS-H2668-xx 46 THS-H2668-xx 47 TR-51768-xx 57 TR-51321-x 64 THS-H2668-xx 48 THS-H2668-x	PMPU-FA8	12	TD-83128-xx	67	THR-11662-xxJ7	Γ 48	THR-16568-xxJT	T 48	TR-51766-xx	60	TR-61928	63
SD12-PC 80 TD-85122-xx 67 THR-11666-xx 45 THS-10240-xx 50 TR-51822-xx 57 TR-63126 64 SFP120A100 38 TD-85128-xx 67 THR-11666-xx 46 THS-10340-xx 50 TR-51826-xx 57 TR-63126 64 SFP120B025 38 TD-85122 66 THR-11666-xx 45 THS-10540-xx 50 TR-51826-xx 57 TR-63128 64 SFP120B025 38 TD-85126 66 THR-11666-xx 45 THS-10540-xx 50 TR-51826-xx 57 TR-63128 64 SFP120B025 38 TD-85126 66 THR-11666-xx 45 THS-10540-xx 50 TR-51826-xx 57 TR-63122 64 SFP120B025 38 TD-85126 64 THR-11666-xx 45 THS-10540-xx 50 TR-51826-xx 60 TR-65122 64 SFP120B025 38 TD-85126 44 THS-1261-xx 45 THS-1340-xx 51 TR-51826-xx 50 TR-65126 64 SFP120B025 38 THR-10261-xx 45 THR-1261-xx 45 THS-1340-xx 51 TR-51826-xx 57 TR-66126 64 SFP120B025 38 THR-10262-xx 44 THR-1261-xx 45 THS-1340-xx 52 TR-51826-xx 57 TR-66126 64 SFP240A100 38 THR-10262-xx 44 THR-1261-xx 45 THS-1340-xx 52 TR-51826-xx 57 TR-66126 64 SFP240A100 38 THR-10262-xx 44 THR-12261-xx 45 THS-1340-xx 52 TR-51826-xx 57 TR-66126 64 SFP240B025 38 THR-10266-xx 44 THR-12261-xx 45 THS-1340-xx 52 TR-51826-xx 57 TR-66126 64 SFP240B025 38 THR-10266-xx 44 THR-12261-xx 45 THS-1340-xx 52 TR-51826-xx 57 TR-66126 64 SFP240B025 38 THR-10266-xx 44 THR-12261-xx 45 THS-1340-xx 52 TR-51826-xx 57 TR-66126 64 SFP240B025 38 THR-10266-xx 44 THR-12261-xx 45 THS-13640-xx 52 TR-51826-xx 57 TR-66126 64 SFP240B025 38 THR-10266-xx 44 THR-12261-xx 45 THS-13640-xx 52 TR-51826-xx 57 TR-66126 64 SFP240B025 38 THR-10266-xx 44 THR-12261-xx 45 THS-13640-xx 52 TR-51826-xx 57 TR-66126 64 SFP240B025 38 THR-10266-xx 44 THR-12261-xx 45 THS-13640-xx 52 TR-51826-xx 57 TR-66126 64 SFP240B025 38 THR-10266-xx 43 THR-12261					THR-11662-xxT							
SFP120A0250 38 TD-88128-xx 67 THR-11666-xx 45 THR-11666-xx												
SFP120A100 38 T0-85128-vx 67 THR-11666-vx 45 THS-10540-vx 50 TR-51828-vx 57 TR-65126 64 SFP120B025 38 T0-85126 66 THR-11668-vx 45 THS-10540-vx 50 TR-51826-vx 60 TR-65126 64 SFP120B250 38 T0-85126 66 THR-11668-vx 45 THS-10540-vx 50 TR-51826-vx 60 TR-65126 64 SFP120B250 38 THR-10240-vx 45 THR-11668-vx 45 THR-11668-vx 45 THR-11668-vx 45 THR-11668-vx 46 THR-11668-vx 45 THR-11668-vx 45 THR-11668-vx 45 THR-11668-vx 45 THR-11668-vx 45 THR-11668-vx 46 THR-11668-vx 46 THR-11668-vx 46 THR-11668-vx 46 THR-11668-vx 47 THR-1261-vx 46 THR-11668-vx 47 THR-1261-vx 46 THR-1261-vx 47 THR-1261-vx 47 THR-1261-vx 47 THR-1261-vx 47 THR-1261-vx 48 THR-1261-vx 47 THR-1261-vx 47 THR-1261-vx 48 THR-1261-vx 47 THR-1261-vx 48 THR-1261-vx 48 THR-1261-vx 49 THR-1261												
SFP120DA250 38 TD-86122 66 THR-11666-xx 45 THR-10561-xx 60 TR-616122 64 SFP120D100 38 TD-86128 66 THR-11668-xx 45 THR-10561-xx 60 TR-616126 64 SFP120D005 38 TD-86128 66 THR-11668-xx 45 THR-11668-xx 46 THR-11668-xx 45 THR-11668-xx 46 THR-11668-xx 47 THR-1262-xx 45 THR-11668-xx 45 THR-1262-xx 45 THR-1												
SFP120B025 38 TD-88122 66 THR-11668-xx 45 THR-11686-xx 50 TR-51861-xx 60 TR-51626 64 SFP120B250 38 TD-88128 66 THR-11668-xx 47 THR-11686-xx 47 THR-11686-xx 48 THR-11686-xx 51 TR-51866-xx 60 TR-65126 64 SFP120C150 38 THR-10261-xx 43 THR-11668-xx 47 THR-11686-xx 47 THR-11666-xx 47 THR-11666-xx 47 THR-11666-xx 48 THR-11660-xx 47 THR-11666-xx 47 THR-11666-xx 47 THR-11666-xx 48 THR-11666-xx 47 THR-11666-xx 48 THR-11666-xx 47 THR-1266-xx 48 THR-11666-xx 47 THR-1266-xx 48 THR-11666-xx 48 THR-11666-xx 48 THR-11666-xx 48 THR-11666-xx 48 THR-11666-xx 48 THR-11666-xx 48 THR-1266-xx 48												
SFP120B100 38 TD-88128 66 THR-11668-xuJ 46 THS-11940-xx 50 TR-51882-xx 60 TR-65128 64 SFP120C025 38 THL-10261-xx 43 THR-1268-xx 47 THS-1134A-xx 51 TR-51886-xx 60 TR-65121 64 SFP120C150 38 THR-10261-xx 43 THR-1261-xx 45 THS-1134A-xx 51 TR-51886-xx 50 TR-66122 64 SFP120C250 38 THR-10261-xx 44 THR-1261-xx 46 THS-1134D-xx 51 TR-51922-xx 57 TR-66122 64 SFP120A100 38 THR-10262-xx 44 THR-1261-xx 47 THS-1134D-xx 51 TR-51922-xx 57 TR-66126 64 SFP240A100 38 THR-10262-xx 47 THR-1262-xx 47 THS-1154D-xx 51 TR-51928-xx 57 TR-66126 64 SFP240B100 38 THR-10266-xx 47 THR-1262-xx 47 THS-1154D-xx 51 TR-51928-xx 57 TR-66122 64 SFP240B100 38 THR-10268-xx 47 THR-1262-xx 46 THS-1154D-xx 51 TR-51928-xx 57 TR-66122 64 SFP240B100 38 THR-10268-xx 47 THR-1262-xx 46 THS-1154D-xx 51 TR-51928-xx 60 TR-66522 64 SFP240B100 38 THR-10268-xx 47 THR-1262-xx 47 THS-1154D-xx 51 TR-51982-xx 60 TR-66526 64 SFP240B250 38 THR-10268-xx 47 THR-1262-xx 47 THS-1154D-xx 51 TR-51982-xx 60 TR-66526 64 SFP240B250 38 THR-10268-xx 47 THR-1262-xx 47 THS-1154D-xx 51 TR-51982-xx 60 TR-66526 64 SFP240B250 38 THR-10268-xx 47 THR-1268-xx 47 THS-1154D-xx 51 TR-51982-xx 60 TR-66526 64 SFP240B250 38 THR-10268-xx 47 THR-1268-xx 47 THS-1154D-xx 51 TR-51982-xx 60 TR-66526 64 THR-1268-xx 47 THR												
SFP1200250 38 The					THR-11668-xx				TR-51861-xx			
SFP120C025	SFP120B100	38	TD-88126	66	THR-11668-xxJ	46	THS-1094D-xx	50	TR-51862-xx	60	TR-65126	64
SFP120C100	SFP120B250	38	TD-88128	66	THR-11668-xxJ7	Γ 48	THS-1134A-xx	51	TR-51866-xx	60	TR-65128	64
SFP120C100												
SFP120C250												
SFP240A025												
SFP240A100												
SFP240B250												
SFP240B025 38 THR-10266-xxx												
SFP240B100 38 THR-10268-xx 44 THR-12262-xxJT 48 THS-1164A-xx 51 TR-51966-xx 60 TR-66528 64 SFP240C025 38 THR-10561-xx 43 THR-12266-xx 45 THS-1164D-xx 51 TR-51968-xx 60 XAF0224A 24 SFP240C100 38 THR-10561-xx 43 THR-12266-xxJT 48 THS-1164D-xx 51 TR-53121-xx 58 VAKP024D 24 SFP240C250 38 THR-10562-xx 43 THR-12266-xxJT 48 THS-1164D-xx 51 TR-53121-xx 58 VAKP024D 24 SFP240C250 38 THR-10562-xx 43 THR-12266-xxJT 48 THS-1224A-xx 51 TR-53122-xx 58 VAKP024D 24 SFP240C250 38 THR-10562-xx 43 THR-12266-xxJT 47 THS-1224A-xx 51 TR-53126-xx 58 VAKP024D 24 SFP240C250 38 THR-10566-xx 43 THR-12268-xxJT 47 THS-1224D-xx 51 TR-53126-xx 58 VAKP024D 24 SF-6268-xx 76 THR-10566-xx 43 THR-12268-xxJT 47 THS-124D-xxT 52 TR-53122-xx 58 VAKP024D 24 SF-6268-xx 76 THR-10566-xx 43 THR-12268-xxJT 47 THS-1314D-xx 50 TR-54122-xx 58 VAKP024D 24 SF-6268-xx 76 THR-10568-xx 43 THR-12268-xxJT 47 THS-1314D-xx 50 TR-54122-xx 58 VAKP024D 24 SF-8066-xx 76 THR-10568-xx 43 THR-12268-xxJT 47 THS-1314D-xx 50 TR-54122-xx 58 VARP024D 24 SF-8066-xx 76 THR-10566-xx 43 THR-13161-xx 47 THS-1314D-xx 50 TR-54122-xx 58 VARP024D 24 SF-8066-xx 76 THR-105661-xx 43 THR-13166-xx 44 THR-13161-xx 45 THS-1314D-xx 50 TR-55122-xx 58 VARP024D 24 SF-8066-xx 76 THR-10566-xx 43 THR-13166-xx 44 THR-13166-xx 45 THS-1314D-xx 50 TR-55122-xx 58 VARP024D 24 SF-8066-xx 76 THR-10566-xx 43 THR-13166-xx 43 THS-13164-xx 50 TR-55122-xx 58 VARP024D 24 SF-8066-xx 76 THR-10566-xx 43 THR-13166-xx 43 THS-13164-xx 50 TR-55122-xx 58 VARP024D 23 SF-8766-xx 76 THR-10566-xx 43 THR-13166-xx 44 THR-13166-xx 45 THS-13164-xx 50 TR-55122-xx 58 VARP024D 23 SF-8766-xx 76 THR-10566-xx 43 THR-												
SFP240C50	SFP240B025	38	THR-10266-xxJ	l 44	THR-12262-xxJ	46	THS-1154D-xxT	52	TR-51962-xx	60	TR-66526	64
SFP240C025 38	SFP240B100	38	THR-10268-xx	43	THR-12262-xxJ	T 48	THS-1164A-xx	51	TR-51966-xx	60	TR-66528	64
SFP240CQ25 38 THR-10561-xx	SFP240B250	38	THR-10268-xxJ	44	THR-12262-xxT	47	THS-1164A-xxT	52	TR-51968-xx	60	VAKP012D	24
SFP240C100 38 THR-10561-xxx												
SFP240C250 38												
SR6P-M086												
SR6P-M11G 80												
SS-6262-xx												
SS-6266-xx 76												
SS-6268-xx 76		76		44	THR-12268-xxJ	46	THS-1224D-xxT	52	TR-54122-xx	58		
SS-8062-xx 76 THR-10861-xx 43 THR-13161-xx 43 THR-14161-xxJ 44 THR-10861-xx 45 THR-10861-xx 58 VAP04D 24 SS-8068-xx 76 THR-10862-xx 43 THR-13162-xx 43 THS-1414D-xx 51 TR-55122-xx 58 VAP04D 24 SS-8068-xx 76 THR-10862-xx 44 THR-13162-xx 43 THS-1414D-xx 52 TR-55128-xx 58 VAP110D 24 SS-8566-xx 76 THR-10866-xx 43 THR-13166-xx 44 THR-13166-xx 44 THR-13166-xx 40 THR-61086-xx 58 VMRP02D 23 SS-8568-xx 76 THR-10868-xx 44 THR-13166-xx 43 THR-14161-xx 45 THS-1614D-xx 50 TR-56122-xx 58 VMRP02AD 23 SS-8768-x 76 THR-10868-xx 43 THR-14161-xx 45 THS-164A-xx 51 TR-56128-xx 58 VMRP02AD 23 SS-876	SS-6266-xx	76	THR-10568-xx	43	THR-12268-xxJ	Γ 48	THS-1314A-xx	50	TR-54126-xx	58	VAP012D	24
SS-8066-xx	SS-6268-xx	76	THR-10568-xxJ	44	THR-12268-xxT	47	THS-1314D-xx	50	TR-54128-xx	58	VAP024A	24
SS-8066-xx	SS-8062-xx	76						51		58		24
SS-8068-xx												
SS-8562-xx												
SS-8566-xx 76												
SS-8568-xx 76												
SS-8762-xx												
SS-8766-xx 76												
SS-8768-xx												
TAA1U 74 THR-10961-xxJ 44 THR-14161-xxJ 46 THS-1654A-xxT 52 TR-56522-xx 58 VMKP120A 23 TAA2U 74 THR-10962-xx 43 THR-14161-xxJT 48 THS-1654D-xx 51 TR-56526-xx 58 VMP012D 23 TD-70221 70 THR-10966-xx 43 THR-14161-xxJ 47 THS-1654D-xx 50 TR-56528-xx 58 VMP024A 23 TD-70222 70 THR-10966-xx 43 THR-14162-xxJ 46 TR-50221-xx 56 TR-60221 62 VMP04BD 23 TD-70226 70 THR-10968-xx 43 THR-14162-xxJ 46 TR-50228-xx 56 TR-60222 62 VMP04BD 23 TD-70521 70 THR-10968-xx 43 THR-14162-xxJT 48 TR-50228-xx 56 TR-60228 62 VMP10D 23 TD-70521 70 THR-11361-xxJ 46 THR-14162-xxJ 46 TR-50528-xx		76		44		44		50		58		
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The "-xx" suffix denotes the time range for time delay relays with adjustable time delay. Contact Macrom