

## Solid-State Relays

Fast response and long service life, with no moving parts to wear out or arcing contacts to deteriorate. Feature heavy-duty SCR for high inrush loads, a standard, light-duty resistive triac, and medium-duty alernistor triac.



Max. Output Amps w/ Heat Sink	Switch Type	Heat Sink	Relay Turns On At	Mounting	3 to 32V DC INPUT			3 to 600V DC Output Item No.	3 to 50V DC Output Item No.	90 to 280V AC INPUT		48 to 660V AC Output Item No.
					24 to 280V AC Output Item No.	48 to 480V AC Output Item No.	48 to 600V AC Output Item No.			24 to 280V AC Output Item No.	48 to 480V AC Output Item No.	
8 A	Triac	Integral	Zero Crossing	DIN Rail Surface	—	—	—	—	—	—	1EJG5	—
10 A	SCR	Not Included	Zero Crossing	Surface	1EGH9	1EGL2	—	1EGK7	—	1EGH8	1EGL1	—
10 A	SCR	Integral	Zero Crossing	DIN Rail/Flange	1EJK2	—	—	—	—	1EJK1	—	1EJK7 *
10 A	Triac	Not Included	Instantaneous/Random	Surface	1EGJ3	—	—	—	—	—	—	—
10 A	Triac	Not Included	Zero Crossing	Surface	1EGJ1	1EGL3	—	—	—	—	—	—
10 A	Triac	Not Included	Zero Crossing	Surface	1EGJ2	—	—	—	—	—	—	—
15 A	MOSFET	Integral	Zero Crossing	DIN Rail	—	—	—	—	1EJF7	—	—	—
25 A	SCR	Not Included	Zero Crossing	Surface	1EGJ5	1EGL5	—	—	—	1EGJ4	1EGL4	—
25 A	SCR	Integral	Zero Crossing	DIN Rail/Flange	1EJK4	—	1EJL1 *	—	—	1EJK3	—	1EJK9 *
40 A	SCR	Not Included	Zero Crossing	Surface	1EGJ9	1EGL8	—	—	—	1EGJ8	1EGL7	—
40 A	SCR	Integral	Zero Crossing	DIN Rail/Flange	1EJK6	—	1EJL3 *	—	—	1EJK5	—	—
40 A	Triac	Not Included	Zero Crossing	Surface	—	1EGL9	—	—	—	—	—	—
50 A	SCR	Not Included	Zero Crossing	Surface	1EGK4	1EGN2	—	—	—	1EGK3	1EGN1	—
75 A	SCR	Not Included	Zero Crossing	Surface	1EGK6	1EGN4	—	—	—	1EGK5	1EGN3	—
90 A	SCR	Not Included	Zero Crossing	Surface	—	—	1EGN6 *	—	—	—	—	1EGN5 *

\* 48 to 660VAC output.

Max. Output Amps w/ Heat Sink	Relay Turns On At	DC INPUT		24 to 280V AC Output		AC INPUT		24 to 530V AC Output	
		24 to 280V AC Input or Control Voltage Range	48 to 530V AC Input or Control Voltage Range	24 to 280V AC Output Item No.	48 to 530V AC Output Item No.	24 to 530V AC Input or Control Voltage Range	48 to 530V AC Input or Control Voltage Range	24 to 530V AC Output Item No.	48 to 530V AC Output Item No.
<b>1-Pole, SCR Normally Closed Output</b>									
25 A	Zero Crossing	3 to 32V DC	—	1DTJ7	—	—	—	—	—
<b>1-Pole, SCR Output</b>									
10 A	Zero Crossing	3 to 32V DC	—	1DTE9	—	90 to 280V AC	1DTG1	—	—
12 A	Zero Crossing	—	4 to 32V DC	1DTF5	—	—	—	90 to 280V AC	1DTG6
18 A	Zero Crossing	3 to 15V DC	—	1DTK4	—	—	—	—	—
25 A	Zero Crossing	—	—	—	—	90 to 280V AC	1DTG2	90 to 280V AC	1DTG7
25 A	Zero Crossing	3 to 32V DC	4 to 32V DC	1DTF1	1DTF6	18 to 36V AC	1DTH6	18 to 36V AC	1DTH8
25 A	Instantaneous/Random	3 to 32V DC	4 to 32V DC	1DTJ1	1DTJ4	—	—	—	—
50 A	Zero Crossing	—	—	—	—	90 to 280V AC	1DTG3	90 to 280V AC	1DTG8
50 A	Zero Crossing	3 to 32V DC	4 to 32V DC	1DTF2	1DTF7	18 to 36V AC	1DTH7	18 to 36V AC	1DTH9
50 A	Instantaneous/Random	3 to 32V DC	4 to 32V DC	1DTJ2	1DTJ5	—	—	—	—
75 A	Zero Crossing	3 to 32V DC	4 to 32V DC	1DTF3	1DTF8	90 to 280V AC	1DTG4	90 to 280V AC	1DTG9
90 A	Zero Crossing	3 to 32V DC	4 to 32V DC	1DTF4	1DTF9	90 to 280V AC	1DTG5	90 to 280V AC	1DTH1
90 A	Instantaneous/Random	3 to 32V DC	4 to 32V DC	1DTJ3	1DTJ6	—	—	—	—
<b>1-Pole, SCR Output, Includes Integral Heat Sink, DIN Rail/Flange</b>									
10 A	Zero Crossing	4 to 32V DC	4 to 32V DC	1DTN3	1DTN7	—	—	—	—
20 A	Zero Crossing	4 to 32V DC	4 to 32V DC	1DTN4	1DTN8	110 to 280V AC	1DTP2	—	110 to 280V AC
30 A	Zero Crossing	4 to 32V DC	4 to 32V DC	1DTN5	1DTN9	110 to 280V AC	1DTP3	—	110 to 280V AC
30 A	Instantaneous/Random	4 to 32V DC	4 to 32V DC	1DTP1	—	—	—	—	—
45 A	Zero Crossing	—	4 to 32V DC	1DTP6	—	—	—	90 to 140V AC	1DTR1
65 A	Zero Crossing	—	3 to 32V DC	1DTP8	—	—	—	90 to 140V AC	1DTR2
<b>2-Pole, SCR Output</b>									
25 A	Zero Crossing	4 to 15V DC	4 to 15V DC	1DTH2	1DTH4	—	—	—	—
40 A	Zero Crossing	4 to 15V DC	4 to 15V DC	1DTH3	1DTH5	—	—	—	—
<b>3-Pole, SCR Output</b>									
50 A	Zero Crossing	—	4 to 32V DC	1DTK6	—	—	—	90 to 280V AC	1DTK8
50 A	Instantaneous/Random	—	4 to 32V DC	1DTK7	—	—	—	90 to 280V AC	1DTK9

\* 24 to 530VAC output.



## Solid-State Relays

Reliable performance even in harsh environments. Quiet operation and great flexibility.

Note: Heat sink required to achieve max. amp capacity. Sold separately, this page.

Description	Item No.
Accessories	
Fingersafe Cover, 1-Phase	1DTR3
Fingersafe Cover, 3-Phase	1DTR4



## Solid-State Relays

Panel mount and DIN rail mount SSRs with standard LED indicator, internal snubber (AC output versions), zero-cross switching, and finger safe (IP20) terminals. DIN rail mount models come with integrated heat sinks. Ideal solutions for industrial automation, heating elements, lighting controls, packaging equipment, conveyors, plastic extrusion equipment, and commercial ovens.

Max. Output Amps w/ Heat Sink	3 to 32V DC INPUT			90 to 280V AC INPUT			4 to 32V DC INPUT		
	24 to 280V AC Output Item No.	48 to 480V AC Output Item No.	48 to 600V AC Output Item No.	24 to 280V AC Output Item No.	48 to 480V AC Output Item No.	48 to 600V AC Output Item No.	24 to 280V AC Output Item No.	48 to 480V AC Output Item No.	48 to 600V AC Output Item No.
<b>SCR, Includes Integral Heat Sink, Relay Turns On At Zero Crossing</b>									
10 A	—	—	—	6CWZ6	—	—	6CXA2 *	6CWZ7	—
30 A	—	—	—	6CWZ8	—	—	6CXA4 *	6CWZ9	—
45 A	6CXA1	—	6CXA7 *	6CXA0 †	—	—	—	—	6CXA5 *
<b>SCR, Relay Turns On At Zero Crossing</b>									
10 A	6CVA4	6CVC4	—	6CVA3	6CVC3	—	—	—	—
25 A	6CVA6	6CVC6	—	6CVA5	6CVC5	—	—	—	—
40 A	6CVA8	6CVC8	—	6CVA7	6CVC7	—	—	—	—
50 A	6CVC0	6CVD0	—	6CVA9	6CVC9	—	—	—	—
75 A	6CVC2	—	—	6CVC1	6CVD1	—	—	6CVD2	—
<b>Triac, Includes Internal Heat Sink, Relay Turns On At Zero Crossing</b>									
8 A	6CWX3	6CWX5	—	6CWX2	6CWX4	—	—	—	—
Description				Mr. Model	Item No.	Pkg. Qty.			
<b>Accessories for SCR Type Relays</b>									
Heat Sink, Aluminum				SSR-HS	6CXA8	1			
Thermal Pad, Mounts On Relay & Heat Sink, Eliminates the Need for Thermal Grease				SSR-TP	6CXA9	10			

\* Output rated 48 to 600VAC. † Input rated 90 to 140VAC.



## OMRON® Solid-State Relays

56GL24



Feature zero cross isolation device. Built-in varistor effectively absorbs external surges. Include protective cover.

Note: Heat sink required to achieve max. amp capacity, sold separately.

Max. Output Amps w/ Heat Sink	Input or Control Voltage Range	Output or Controlled Voltage Range	Switch Type	Item No.
5 A	5 to 24V DC	24 to 240V AC	Phototriac	56GL29
10 A	5 to 24V DC	24 to 240V AC	Phototriac	56LU49
10 A	10 to 30V AC/DC	200 to 480V AC	Phototriac	56GL27
10 A	20 to 28V DC	100 to 240V AC	Phototriac	5ZH24
20 A	5 to 24V DC	24 to 240V AC	Phototriac	56GL24
25 A	5 to 24V DC	24 to 240V AC	Phototriac	56LU51
40 A	5 to 24V DC	24 to 240V AC	Phototriac	56LU52
50 A	100 to 240V AC	400 to 600V AC	Photocoupler	1YDP1
<b>Accessories</b>				
Heat Sink, 20 Amps or Less				6C911
Heat Sink, 25 Amps and Greater				6C912