

SOLID STATE RELAYS

- AC Voltage: Single Phase & Three Phase
- AC Voltage Multichannel
- DC Voltage
- Smart SSR



Selection Guide - SSR

Crouzet's Solid State Relays

A series of multipurpose Solid State Relays, in both panel mount and DIN Rail mount.

To switch DC loads from 10 to 40 A / 5 to 200 VDC, and switch AC loads from

25 A to 125 A / 24 to 660 VAC.

AC VOLTAGE SINGLE PHASE

Type	Output		Input	Certifications
	Current	Voltage	Voltage	
 GNA Essential Version	25 A	24-280 VAC	4-32 VDC	cRUus, CE, EAC*
	40 A	48-660 VAC		
	50 A			cRUus, CE, EAC*, VDE
	90 A			
 GN Classic Version	10 A	24-280 VAC	4-32 VDC	cRUus, CE, EAC*, VDE
	10 A		20-265 VAC	cRUus, CE, EAC*
	25 A	24-280 VAC	4-32 VDC	cRUus, CE, EAC*
	25 A		18-36V AC/DC	
	25 A	48-660 VAC	20-265 VAC	cRUus, CE, EAC*
	25 A		4-32 VDC	
	25 A	48-660 VAC	20-265 VAC	cRUus, CE, EAC*
	25 A		4-32 VDC	
	50 A	48-660 VAC	4-32 VDC	cRUus, CE, EAC*, VDE
	50 A		18-36V AC/DC	
	50 A	48-660 VAC	20-265 VAC	cRUus, CE, EAC*
	50 A		4-32 VDC	
	75 A	48-660 VAC	4-32 VDC	cRUus, CE, EAC*, VDE
	75 A		20-265 VAC	
	75 A	48-660 VAC	20-265 VAC	cRUus, CE, EAC*
	75 A		4-32 VDC	
	100 A	48-660 VAC	4-32 VDC	cRUus, CE, EAC*, VDE
	100 A		20-265 VAC	
100 A	48-660 VAC	20-265 VAC	cRUus, CE, EAC*	
100 A		4-32 VDC		
125 A	48-660 VAC	4-32 VDC	cRUus, CE, EAC*, VDE	
125 A		20-265 VAC		
 GN+ Performance Version	25 A	12-270 VAC	4-32 VDC	cRUus, CE, EAC*, VDE
	25 A		20-260 VAC/DC	
	50 A	24-500 VAC	4-32 VDC	cRUus, CE, EAC*, VDE
	50 A		20-260 VAC/DC	
	90 A	24-500 VAC	4-32 VDC	cRUus, CE, EAC*, VDE
	90 A		20-260 VAC/DC	
	125 A	24-500 VAC	4-32 VDC	cRUus, CE, EAC*, VDE
	125 A		20-260 VAC/DC	

Solid State Relays Features

Removable covers and output protection included

Smart load diagnostic versions

Resistive, Inductive an Capacitive loads



	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
	Panel Mount "Hockey Puck"	Zero Cross	Resistive Loads: • Heating	• To use in simple applications	GNA25DZL	84137910N
					GNA40DZH	84137450N
					GNA50DZH	84137460N
					GNA90DZH	84137480N
	Panel Mount "Hockey Puck"	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (TVS)	GN10DZL	84137000N
					GN10AZL	84137001N
					GN25DZL	84137010N
					GN25CZL	84137012N
					GN25AZL	84137011N
					GN25DZH	84137110N
					GN25AZH	84137111N
					GN50DZH	84137120N
					GN50CZH	84137122N
					GN50AZH	84137121N
					GN75DZH	84137130N
					GN75AZH	84137131N
	Panel Mount "Hockey Puck"	Random (Instantaneous)	Inductive Loads: • Motion • Miscellaneous (high inductive loads, very strong magnetising currents, overvoltages)	• Output Protection Included (RC Snubber)	GN25DRL	84137210N
					GN25ARL	84137211N
					GN50DRL	84137320N
					GN50ARH	84137321N
	Panel Mount "Hockey Puck"	Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (Strong inrush current)	• Output Protection Included (VDR) • High Immunity (Level A) • Thermal Pad Included	GNP25DZL	84138010N
					GNP25UZL	84138013N
					GNP50DZM	84138120N
					GNP50UZM	84138123N
					GNP90DZM	84138150N
					GNP90UZM	84138153N
	Panel Mount "Hockey Puck"	Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (Strong inrush current)	• Output Protection Included (VDR) • High Immunity (Level A) • Thermal Pad Included	GNP125DZM	84138180N
					GNP125UZM	84138183N





AC VOLTAGE SINGLE PHASE

Type	Output		Input	Certifications
	Current	Voltage	Voltage	
 GNR Classic Version	20 A	24-280 VAC	4-32 VDC	cRUus, CE, EAC*
	20 A		4-32 VDC	
	20 A		80-140 VAC	
	20 A			
	30 A	48-660 VAC	4-32 VDC	
	30 A		80-140 VAC	
	30 A		180-280 VAC	
30 A	24-500 VAC	4-32 VDC	cRUus, CE, EAC*, VDE	
 GNR+ Performance Version	30 A	24-500 VAC	4-32 VDC	cRUus, CE, EAC*, VDE
	30 A		180-280 VAC	
	32 A		4-32 VDC	
	45 A		4-32 VDC	
 GNF Specialized Version	25 A	24-280 VAC	4-30 VDC	cRUus, CE, UKCA
 GN MINI Specialized Version	20 A	24-280 VAC	4-30 VDC	cRUus, CE, UKCA
 GNZ Specialized Version	8 A	24-280 VAC	4-32 VDC	cRUus, CE, UKCA

AC VOLTAGE MULTICHANNEL

Type	Output		Input	Certifications
	Current	Voltage	Voltage	
 GN2/GN2F 2-Channel	25 A	24-280 VAC	10-30 VDC	cRUus, CE, UKCA
	25 A		4-32 VDC	
	50 A	48-660 VAC	4-32 VDC	
	50 A	48-660 VAC	10-30 VDC	
	50 A	24-510 VAC	10-30 VDC	
 GN4 4-Channel	25 A	12-280 VAC	4-32 VDC	cRUus, CE, UKCA

	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
 DIN Rail 22.5 mm	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included	GNR20DCZL	GNR20DCZL	
				GNR20DCZH	GNR20DCZH	
				GNR20BCZH	GNR20BCZH	
				GNR20ACZH	GNR20ACZH	
				GNR30DCZH	GNR30DCZH	
				GNR30BCZH	GNR30BCZH	
				GNR30ACZH	GNR30ACZH	
 DIN Rail 22.5 mm	Random	Inductive Loads: • Motion • Miscellaneous	• Output Protection Included (RC Snubber)	GNR25DCRH	GNR25DCRH	
 DIN Rail 22.5 mm	Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (Strong inrush current)	• Output Protection Included (VDR) • High Immunity (Level A)	GNR30DCZP	GNR30DCZP	
				GNR30ACZP	GNR30ACZP	
				GNR32DCZP	GNR32DCZP	
 DIN Rail 45 mm				GNR45DCZP	GNR45DCZP	
 Panel Mount "Hockey Puck"	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (VDR) • FAST-ON terminals	GN20DFZL	84134017N	
 Panel Mount "Mini Puck"	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (VDR) • FAST-ON terminals	GNM20DFZL	84132010N	
 Panel Mount "Low profile"	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (VDR) • FAST-ON terminals	GNZ8DFZL	84132210N	
	Random	Inductive Loads: • Motion • Miscellaneous		GNZ8DFRL	84132110N	

	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
 Panel Mount "Hockey Puck"	Zero Cross	Resistive Loads: • Heating • Lighting	• Two SSRs in One package • Fast-ON terminals	GN225DZL	84140013N	
				GN225DFZL	84140800N	
		Resistive Loads: • Heating • Lighting	• Two SSRs in One package	GN250DZL	84140603N	
				GN250DZH	84140613N	
		Inductive Loads: • Motion • Miscellaneous		GN250DRH	84140631N	
 Panel Mount "Hockey Puck"	Zero Cross	Resistive Loads: • Heating • Lighting	• Four SSRs in one package	GN425DFZL	84154010N	





AC VOLTAGE THREE PHASE

Type	Output		Input	Certifications
	Current	Voltage	Voltage	
 GN3 Classic Version NEW	25 A	24-510 VAC	4-32 VDC	cRUus, CE, UKCA
	25 A			
	25 A	24-510 VAC	24-255 V AC/DC	
	50 A			
	50 A	24-510 VAC	4-32 VDC	
	50 A			
 GNR3 Classic Version NEW	25 A	24-660 VAC	4-32 VDC	cRUus, CE, UKCA
	25 A	24-660 VAC	24-255 V AC/DC	
 GNO Reverse Version NEW	25 A	24-510 VAC	12-30 VDC	cRUus, CE, UKCA
	50 A			



	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
Panel Mount "Hockey Puck"		Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (TVS)	GN325DSZH	GN325DSZH
		Random	Inductive Loads: • Motion • Miscellaneous		GN325DSRH	GN325DSRH
		Special Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (TVS)	GN325ASZH	GN325ASZH
			Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (strong inrush current)			
		Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (TVS)	GN350DSZH	GN350DSZH
			Inductive Loads: • Motion • Miscellaneous			
Special Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (TVS)	GN350ASZH	GN350ASZH		
	Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (Strong inrush current)					
DIN Rail 90 mm		Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (TVS)	GNR325DCZH	GNR325DCZH
		Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (strong inrush current)		GNR325ACZH	GNR325ACZH
Panel Mount "Hockey Puck"		Special Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (RC, VDR)	GNO25DSRL	GNO25DSRL
			Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (strong inrush current)			






DC VOLTAGE



Type	Output		Input Voltage	Certifications
	Current	Voltage		
 GNAD Essential Version	10 A	5-200 VDC	4-32 VDC	cRUus, CE
	20 A	5-100 VDC		
	40 A	5-55 VDC		
 GND Classic Version	10 A	5-200 VDC	4-32 VDC	cRUus, CE
	40 A	5-60 VDC		



Load Diagnostic: Smart SSR

Type	Output		Input Voltage	Certifications
	Current	Voltage		
 GN Smart Load Detection	50 A	24-600 VAC	4-32 VDC	cRUus, CE, EAC*, VDE
	35 A	50-265 VAC	8-30 VDC	
	50 A	150-510 VAC		
	75 A			
 GNR Smart Module Load Detection	40 A	-	4-32 VDC	CE, EAC*
	40 A	-	24-45 VDC	





ACCESSORIES

Type	Description	P/N
 Heatsinks For Panel Mount SSRs	0.9 °C/W Thermal Resistance	26532752N
	1.1 °C/W Thermal Resistance	26532753N
	1.2 °C/W Thermal Resistance	26532754N
	1.75 °C/W Thermal Resistance	26532755N
	2.2 °C/W Thermal Resistance	26532756N
	Heatsink screw mounting kit, for SSRs with Hockey Puck shape	26532001
	Heatsink screw mounting kit, for 3-phase SSRs	26532002
 Adapters For DIN Rail	DIN Rail Adaptor for SSRs with Hockey Puck shape	26532764N
 Thermal Pads For Heatsink Mounting	Pre-cut thermal pad	26532720N
	Self-adhesive thermal pad	26532722N

	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
 Panel Mount "Hockey Puck"	DC Switching	DC Switching	DC Loads: • Heating • Motion • Lighting • Miscellaneous	• To use in simple applications	GNAD10DH	84137650N
					GNAD20DM	84137660N
					GNAD40DL	84137670N
 Panel Mount "Hockey Puck"	DC Switching	DC Switching	DC Loads: • Heating • Motion • Lighting • Miscellaneous	• Output Protection Included (TVS*)	GND10DH	84137850N
					GND40DM	84137870N

	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
 Panel Mount "Hockey Puck"		Zero Cross	Current Detection	-	GNS50DAZH	84136120N
		Zero Cross	Load Detection	-	GNS35DDZH	84139150N
					GNS50DDZH	84139120N
					GNS75DDZH	84139130N
 Module On GNR/GNR+		-	Current Detection	-	GNS40DDDR	84050040N
			Current & Diagnostic		GNS40FDDR	84050043N

ACCESSORIES

Type	Description	P/N
 Screws For Heatsink Mounting	Screw Mounting Kit for Single & Dual-Phase SSR	26532001
	Screw Mounting Kit for 3-Phase SSR	26532002
 Thermal Grease For Heatsink Mounting	Thermal Grease	26532003
 Label For SSR Identification	Label for SSR Identification	26532004
 Connectors	GN2, 4-Pin, 4 pole 90° & 270° set-screw connector	26532005
	GN2, 4-Pin, 4 pole 270° set-screw connector	26532006