

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, DIN Rail mount and PCB mount.

To switch DC loads from 4 to 40 A / 5 to 200 VDC, and switch AC loads from

4 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
	40 A	48-660 VAC		
	50 A			
	90 A			
 GN Classic Version	10 A	24-280 VAC	4-32 VDC	cRUus, CE, VDE
	10 A		20-265 VAC	cRUus, CE
	25 A	24-280 VAC	4-32 VDC	cRUus, CE
	25 A		18-36V AC/DC	
	25 A	48-660 VAC	20-265 VAC	cRUus, CE, VDE
	25 A		4-32 VDC	
	25 A	48-660 VAC	20-265 VAC	cRUus, CE
	25 A		4-32 VDC	
	50 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE
	50 A		18-36V AC/DC	
	50 A	48-660 VAC	20-265 VAC	cRUus, CE
	50 A		4-32 VDC	
	75 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE
	75 A		20-265 VAC	
	100 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE
	100 A		20-265 VAC	
125 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE	
125 A		20-265 VAC		
 GN+ Performance Version	25 A	12-270 VAC	4-32 VDC	cRUus, CE, VDE
	25 A		20-260 VAC/DC	
	50 A	24-500 VAC	4-32 VDC	cRUus, CE, VDE
	50 A		20-260 VAC/DC	
	90 A	24-500 VAC	4-32 VDC	cRUus, CE, VDE
	90 A		20-260 VAC/DC	
	125 A	24-500 VAC	4-32 VDC	cRUus, CE, 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
					GN100DZH	84137140N
					GN100AZH	84137141N
GN125DZH	84137180N					
GN125AZH	84137181N					
	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
					GN75DRH	84137330N
	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
					GNP125DZM	84138180N
					GNP125UZM	84138183N





AC VOLTAGE SINGLE PHASE

Type	Output		Input Voltage	Certifications
	Current	Voltage		
 GNR Classic Version	20 A	24-280 VAC	4-32 VDC	cRUus, CE
	20 A	48-660 VAC	4-32 VDC	
	20 A		80-140 VAC	
	20 A		180-280 VAC	
	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, VDE
 GNR+ Performance Version	30 A	24-500 VAC	4-32 VDC	cRUus, CE, VDE
	30 A		180-280 VAC	
	32 A		4-32 VDC	
	45 A		4-32 VDC	cRUus, CE
 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
 GN Board Classic Version NEW	4 A	12-275 VAC	4-30 VDC	cRUus, CE, UKCA
		12-460 VAC		
	4 A	24-600 VAC	4-10 VDC	cRUus, CE, UKCA
 GNR Mini Classic Version NEW	4 A	12-275 VAC	6-30 VDC	CE, UKCA
		12-460 VAC	12-30 VAC / 8,5-30 VDC	

	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
 DIN Rail 22.5 mm	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
		Random	Inductive Loads: • Motion • Miscellaneous	• Output Protection Included (RC Snubber)	GNR25DCRH	GNR25DCRH
 DIN Rail 45 mm	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
					GNR45DCZP	GNR45DCZP
 Panel Mount "Hockey Puck"	Panel Mount "Hockey Puck"	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (VDR) • FAST-ON terminals	GN20DFZL	84134017N
 Panel Mount "Mini Puck"	Panel Mount "Mini Puck"	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (VDR) • FAST-ON terminals	GNM20DFZL	84132010N
 Panel Mount "Low profile"	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
 PCB Mount	PCB Mount	Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (Strong inrush current)	• Output Protection Included (TVS)	GNB4D2A	GNB4D2A
					GNB4D2B	GNB4D2B
		Zero Cross	Resistive Loads: • Heating	-	GNB4D1C	GNB4D1C
 DIN Rail	DIN Rail	Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Miscellaneous (High inductive loads)	• Output Protection Included (VDR)	GNRM4D2A	GNRM4D2A
					GNRM4B1B	GNRM4B1B




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
Panel Mount "Hockey Puck"		Zero Cross	Resistive Loads: • Heating • Lighting	• Two SSRs in One package	GN225DZL	84140013N
				• Fast-ON terminals	GN225DFZL	84140800N
		Zero Cross	Resistive Loads: • Heating • Lighting	• Two SSRs in One package	GN250DZL	84140603N
				GN250DZH	84140613N	
		Random	Inductive Loads: • Motion • Miscellaneous	GN250DRH	84140631N	
Panel Mount "Hockey Puck"		Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous Capacitive Loads: • Miscellaneous	• Four SSRs in one package	GN425DFZL	84154010N



AC VOLTAGE THREE PHASE

Type	Output		Input	Certifications
	Current	Voltage	Voltage	
 GN3 Classic Version	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	24-510 VAC	4-32 VDC	
	50 A			
	50 A	24-510 VAC	24-255 V AC/DC	






	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
		Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (strong inrush current)	• Output Protection Included (TVS)	GN325ASZH	GN325ASZH
					Zero Cross	Resistive Loads: • Heating • Lighting
		Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (Strong inrush current)	• Output Protection Included (TVS)	GN350ASZH	GN350ASZH
					Random	Inductive Loads: • Motion • Miscellaneous



AC VOLTAGE THREE PHASE

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

DC VOLTAGE



Type	Output		Input	Certifications
	Current	Voltage	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		
 GND Board Classic Version NEW	4 A	2-60 VDC	4-30 VDC	CE, UKCA
	10 A	7-36 VDC	4-10 VDC	
			10-30 VDC	
 GNRD MINI Specialized Version NEW	4 A	2-60 VDC	5-30 VDC	CE, UKCA
			90-240 VAC/DC	
 GNRD-0 Specialized Version NEW	6 A	7-36 VDC	7-30 VDC	CE, UKCA



	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
	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 Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (strong inrush current)	• Output Protection Included (RC, VDR) • Start/Stop/Reverse in the same product	GNO25DSRL	GNO25DSRL
					GNO50DSRL	GNO50DSRL

	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
	Panel Mount "Hockey Puck"	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 Loads: • Heating • Motion • Lighting • Miscellaneous	• Output Protection Included (TVS*)	GND10DH	84137850N
					GND40DM	84137870N
	PCB Mount	DC Switching	DC Loads: • Heating • Motion • Lighting • Miscellaneous	-	GNDB4D2D	GNDB4D2D
					GNDB10D1E	GNDB10D1E
					GNDB10B1E	GNDB10B1E
	DIN Rail	DC Switching	DC Loads: • Lighting • Miscellaneous	• Output Protection Included (TVS)	GNRDM4D1C	GNRDM4D1C
					GNRDM4A1C	GNRDM4A1C
	DIN Rail	DC Switching	DC Loads: • Motion	• Output Protection Included (TVS)	GNRD06CDL	GNRD06CDL






Load Diagnostic: Smart SSR





Type	Output		Input	Certifications
	Current	Voltage	Voltage	
 GN Smart Load Detection	50 A	24-600 VAC	4-32 VDC	cRUus, CE, 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
	40 A		24-45 VDC	

	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
		GNS75DDZH				84139130N
 Module On GNR/GNR+		-	Current Detection	-	GNS40DDDR	84050040N
			Current & Diagnostic		GNS40FDDR	84050043N

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

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