

SOLID STATE RELAYS

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





SOLID STATE RELAYS SPECIALIST

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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		cRUus, CE, VDE	
		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		20-265 VAC		
		25 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE	
		25 A		20-265 VAC	cRUus, CE	
		50 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE	
		50 A		18-36V AC/DC	cRUus, CE	
		50 A		20-265 VAC		
		75 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE	
		75 A		20-265 VAC	cRUus, CE	
		100 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE	
		100 A		20-265 VAC	cRUus, CE	
		125 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE	
		125 A		20-265 VAC	cRUus, CE	
		25 A	24-280 VAC	4-32 VDC	cRUus, CE, VDE	
		25 A		90-260 VAC		
		50 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE	
		50 A		90-260 VAC		
		75 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE	
	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
	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	Certifications	
	Current	Voltage	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		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	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	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	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	• 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
	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
	PCB Mount	Zero Cross	Resistive Loads: • Heating	-	GNB4D1C	GNB4D1C
	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	

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						
	50 A	24-510 VAC	4-32 VDC				
	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	• 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

	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 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	• Output Protection Included (TVS)	GN350DSZH	GN350DSZH
		Random	Inductive Loads: • Motion • Miscellaneous	• Output Protection Included (RC, VDR)	GN350DSRH	GN350DSRH
		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

AC VOLTAGE THREE PHASE

Type	Output		Input	Certifications	
	Current	Voltage	Voltage		
 GMR3 Classic Version	25 A	24-660 VAC	4-32 VDC	cRUus, CE, UKCA	
	25 A	24-660 VAC	24-255 V AC/DC		
 GMR0 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			
 GMR0 Classic Version	10 A	5-200 VDC	4-32 VDC	cRUus, CE	
	40 A	5-60 VDC			
 GMR Board Classic Version	4 A	2-60 VDC	4-30 VDC	CE, UKCA	
	10 A	7-36 VDC	4-10 VDC		
			10-30 VDC		
 GMR MINI Specialized Version	4 A	2-60 VDC	5-30 VDC	CE, UKCA	
			90-240 VAC/DC		
 GMRD-0 Specialized Version	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)	GMR325DCZH	GMR325DCZH
		Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (strong inrush current)		GMR325ACZH	GMR325ACZH
	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	GMR25DSRL	GMR25DSRL
					GMR50DSRL	GMR50DSRL

	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	GMR10DH	84137650N
					GMR20DM	84137660N
					GMR40DL	84137670N
	Panel Mount "Hockey Puck"	DC Switching	DC Loads: • Heating • Motion • Lighting • Miscellaneous	• Output Protection Included (TVS*)	GMR10DH	84137850N
					GMR40DM	84137870N
	PCB Mount	DC Switching	DC Loads: • Heating • Motion • Lighting • Miscellaneous	-	GMRB4D2D	GMRB4D2D
					GMRB10D1E	GMRB10D1E
					GMRB10B1E	GMRB10B1E
	DIN Rail	DC Switching	DC Loads: • Lighting • Miscellaneous	• Output Protection Included (TVS)	GMRDM4D1C	GMRDM4D1C
					GMRDM4A1C	GMRDM4A1C
	DIN Rail	DC Switching	DC Loads: • Motion	• Output Protection Included (TVS)	GMRD06CDL	GMRD06CDL

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		

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"	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