

› GNZ Series

Low Profile Solid State Relays

Panel Mount – Single channel

- › 8 A SSR for low-profile applications
- › Fast-on terminals for easy installation in applications that control resistive loads and inductive loads
- › Zero Cross Turn-On and Instantaneous (Random)
- › cRUus, CE and UKCA Recognized



84132210N



84132110N

Product Selection - Zero Cross (Resistive)

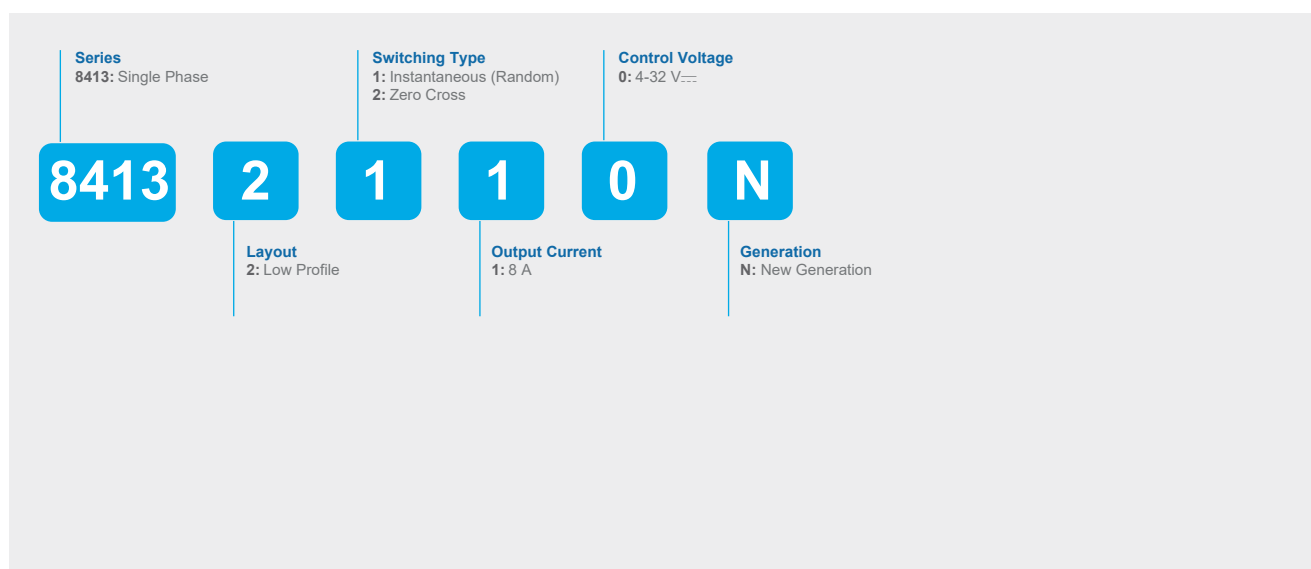
Rated Load Current	8A
Output Voltage	24-280 V~
Control Voltage	
4-32 V~	84132210N

Product Selection- Instantaneous (Random) (Inductive Loads)

Rated Load Current	8A
Output Voltage	24-280 V~
Control Voltage	
4-32 V~	84132110N

Part number system

GNZ Faston



Do you need an adapted or customized solution? Contact us on www.crouzet.com

Description:

Crouzet Solid State Relays are designed to be used in almost any application, offering very long life expectancy and are easy to install, easy to use, robust and multipurpose.

For more information about Crouzet's Solid State relays, please visit www.crouzet.com.

Accessories		
Type	Description	Part-Number
Thermal Grease	Thermal Grease for Heatsink mounting	26532003
Screws -	Screw Mounting Kit	26532001

Output Characteristics ⁽¹⁾	
Description	8A
Operating Voltage (47-440 Hz) [Vrms]	24-280
Maximum Load Current [mArms] ⁽²⁾	8 @ 40 °C
Minimum Load Current [mArms]	1
Transient Overvoltage [Vpk]	600 (320)
Maximum Surge Current (50/60 Hz (Typ .@ 50 Hz), 1 Cycle) [Apk]	250/260 (min) 340 (typ)
1 second surge current (Apk. Ta= 25 °C) 50/60 Hz	95
Maximum I ² t for Fusing (50/60 Hz 1/2 cycle) [A ² sec]	340 (min) 600 (typ)
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/μsec]	500
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	1
Maximum On-State Voltage Drop @ Rated Current [Vrms]	1.04
Thermal Resistance Junction to Case (Rjc) [°C/W]	5.25
Minimum Heatsink for Rated Current @ 40 °C [°C/W] ⁽²⁾	4.5
Minimum Power Factor (at Maximum load)	0.45

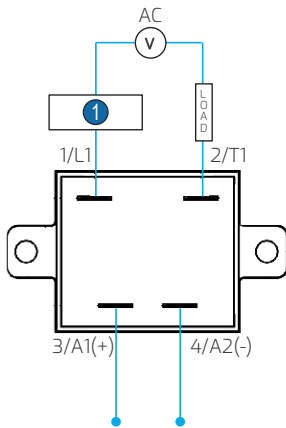
Input Characteristics ⁽¹⁾	
Description	4-32 V _{DC}
Control Voltage Range	4-32 V _{DC}
Minimum Turn-On Voltage	4 V _{DC}
Must Turn-Off Voltage	1 V _{DC}
Maximum Reverse Voltage	-32 V _{DC}
Minimum Input Current [mA]	3
Maximum Input Current [mA]	30.5
Nominal Input Impedance [Ohms]	1000 Ohms
Maximum Turn-On Time	½ Cycle ⁽³⁾
Maximum Turn-Off Time	½ Cycle

General Characteristics	
Description	8A
Dielectric Strength (Vrms)	4000 (Input-Output-Case)
Minimum Insulation Resistance (@ 500 V _{DC})	10 ⁹ Ω
Maximum Capacitance, Input/Output	0.8 pF
Ambient Operating Temperature Range	-40 to 80 °C
Ambient Storage Temperature Range	-40 to 100 °C
Housing Material	UL94 V-0
Basplate Material	Polyamide
Terminals	Fast-on (0.25" / 6.3 mm)
Mounting Screw Torque (in-lb/Nm)	11-16/1.2-1.8
Humidity (IEC60068-2-78)	85 % non-condensing
Input Status Indicator	No LED
Weight (g)	40 g
MTBF (Mean Time Between Failure) @ 40 °C (years)	93

General Notes	
(1)	All parameters at 25 °C unless otherwise
(2)	Heatsink required, see derating curves
(3)	For Instantaneous (Random) = <0.1

Diagrams
Wiring

GNZ Faston

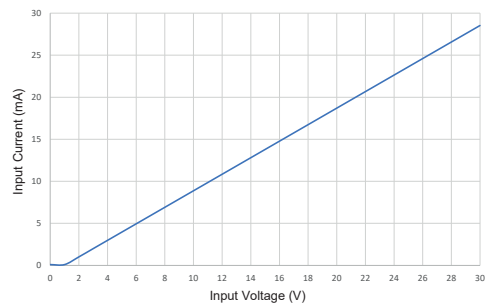
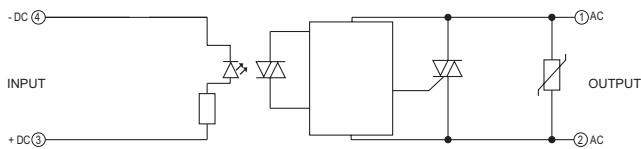


1 Protection Equipment

Diagrams
Equivalent Circuit Block

GNZ Series 4-32 V_{DC} control Triac - 24-280 V_{AC} - Zero Cross & Instantaneous - 84132110N, 84132210N

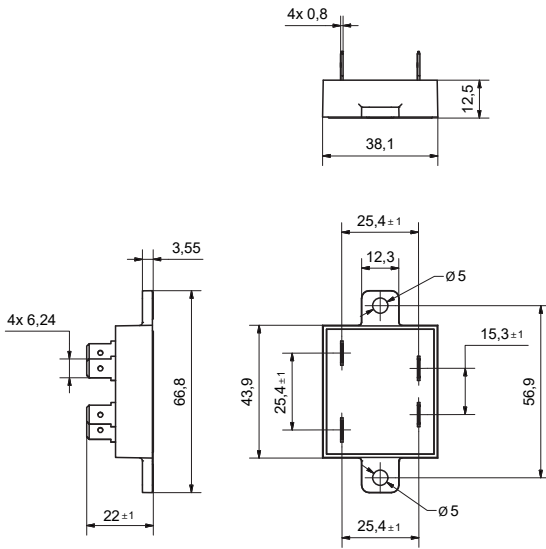
Input current vs Input Voltage
Standard Regulated DC inputs



Diagrams

Dimensions (mm)

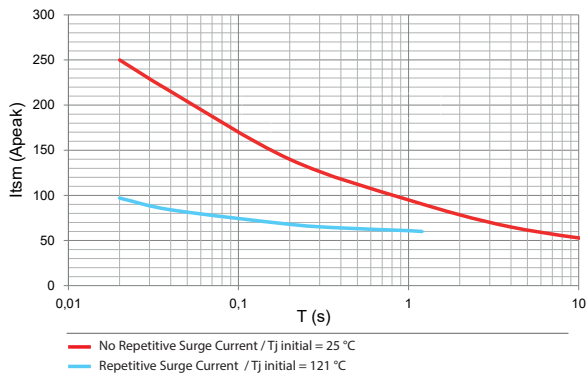
GNZ Faston



Curves

Surge Current Information

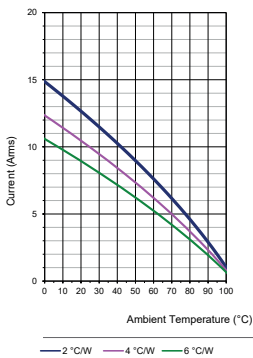
GNZ -8 A - 84132110N / 84132210N



Curves

Thermal Derating Curves

GNZ -8 A - 84132110N / 84132210N



Accessories**Others**Thermal Grease for Heatsink mounting - **26532003**Screw Mounting Kit - **26532001****Standards & Electromagnetic Compatibility Specification**

Designed in accordance with the requirements of IEC 62314

EN60950: Meets the requirements of sections 1.5: 1.7: 2.9: 2.10.5.3: 4.2: 4.5: 4.7:

Standards**Warning:**

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