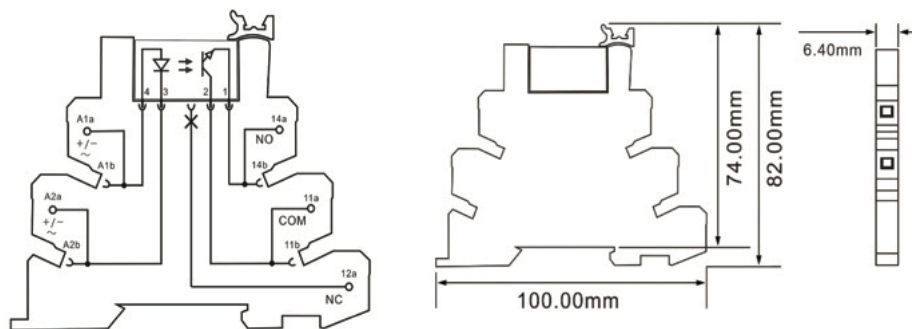


Part Numbers	Input voltage (AC/DC)	Load Voltage	Load Current	Socket Model	SSR Model	Mount
GRMS0160DD3LS	12V/24V	2-60VDC	1A	GRMS0160DD3	GRMS-24UC-S	Screw
GRMS0260DD3LS	12V/24V	2-60VDC	2A	GRMS0260DD3	GRMS-24UC-S	Screw
GRMS0360DD3LS	12V/24V	2-60VDC	3A	GRMS0360DD3	GRMS-24UC-S	Screw
GRMS0123ZD3LS	12V/24V	24-230VAC	1A	GRMS0123ZD3	GRMS-24UC-S	Screw
GRMS0223ZD3LS	12V/24V	24-230VAC	2A	GRMS0223ZD3	GRMS-24UC-S	Screw
GRMS0323ZD3LS	12V/24V	24-230VAC	3A	GRMS0323ZD3	GRMS-24UC-S	Screw
GRMS0160DD3HS	230V	2-60VDC	1A	GRMS0160DD3	GRMS-240UC-S	Screw
GRMS0260DD3HS	230V	2-60VDC	2A	GRMS0260DD3	GRMS-240UC-S	Screw
GRMS0360DD3HS	230V	2-60VDC	3A	GRMS0360DD3	GRMS-240UC-S	Screw
GRMS0123ZD3HS	230V	24-230VAC	1A	GRMS0123ZD3	GRMS-240UC-S	Screw
GRMS0223ZD3HS	230V	24-230VAC	2A	GRMS0223ZD3	GRMS-240UC-S	Screw
GRMS0323ZD3HS	230V	24-230VAC	3A	GRMS0323ZD3	GRMS-240UC-S	Screw

Dimension

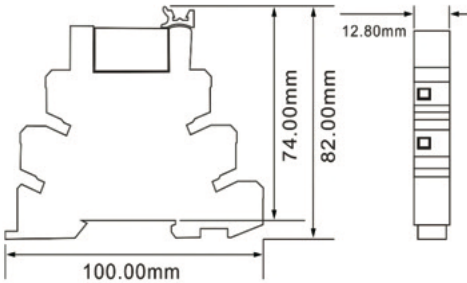
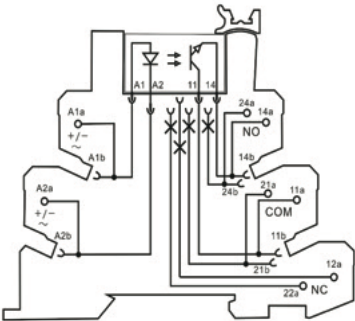


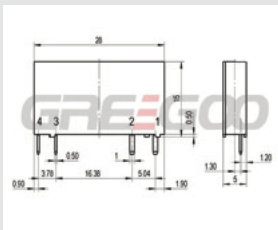


Solid State Relay integrated Socket

Part Numbers	Input voltage (AC/DC)	Load Voltage	Load Current	Socket Model	SSR Model	Mount
GRML0360DD3LS	12V/24V	2-60VDC	3A	GRML0360DD3	GRML-24UC-S	Screw
GRML0460DD3LS	12V/24V	2-60VDC	4A	GRML0460DD3	GRML-24UC-S	Screw
GRML0560DD3LS	12V/24V	2-60VDC	5A	GRML0560DD3	GRML-24UC-S	Screw
GRML0328ZD3LS	12V/24V	24-230VAC	3A	GRML0328ZD3	GRML-24UC-S	Screw
GRML0428ZD3LS	12V/24V	24-230VAC	4A	GRML0428ZD3	GRML-24UC-S	Screw
GRML0528ZD3LS	12V/24V	24-230VAC	5A	GRML0528ZD3	GRML-24UC-S	Screw
GRML0360DD3HS	230V	2-60VDC	3A	GRML0360DD3	GRML-240UC-S	Screw
GRML0460DD3HS	230V	2-60VDC	4A	GRML0460DD3	GRML-240UC-S	Screw
GRML0560DD3HS	230V	2-60VDC	5A	GRML0560DD3	GRML-240UC-S	Screw
GRML0328ZD3HS	230V	24-230VAC	3A	GRML0328ZD3	GRML-240UC-S	Screw
GRML0428ZD3HS	230V	24-230VAC	4A	GRML0428ZD3	GRML-240UC-S	Screw
GRML0528ZD3HS	230V	24-230VAC	5A	GRML0528ZD3	GRML-240UC-S	Screw

Dimension





Ultra-slim miniature Solid State Relay

Features

- Vibration and shock resistant
- Zero voltage switch at AC output
- Limiting continuous current: 1A, 2A, 3A
- Nominal input voltage UN: 3-32VDC
- Output nominal voltage : 60VDC
- Dielectric strength 2500V
- DC Control, DC Output
- Optically Isolated
- Machine Insertable, Wave Solderable

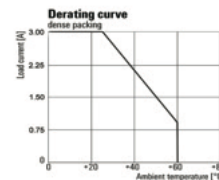
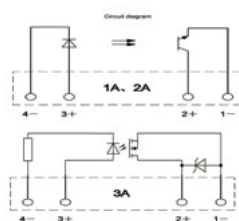
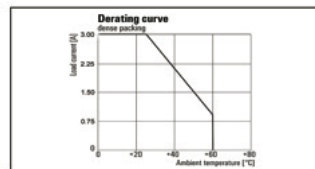
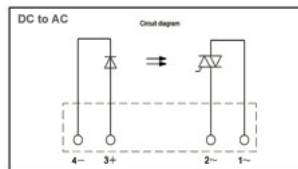
DC to AC

Part Numbers	GRMS0123ZD3	GRMS0223ZD3	GRMS0323ZD3
Load Current	1A	2A	3A
AC Operating Voltage	24-230VAC	24-230VAC	24-230VAC
Input Control Current	≤10mA	≤10mA	≤10mA
Zero Cross Turn-On Voltage	3-32VDC	3-32VDC	3-32VDC
On-State Voltage Drop	≤1.5V	≤1.5V	≤1.5V
Output off-state leakagecurrent	≤5mA	≤5mA	≤5mA
Switching Speeds(turn-on)	0.5-cycles	0.5-cycles	0.5-cycles
Switching Speeds(turn-off)	0.5-cycles	0.5-cycles	0.5-cycles
Min. load current	25mA	25mA	25mA
Isolation Voltage	2500VAC	2500VAC	2500VAC
Contact switching type	1 NO contact	1 NO contact	1 NO contact
Protective circuit	RC element	RC element	RC element
Operational Temperature	(-20~60°C)	(-20~60°C)	(-20~60°C)
Install	Direct PCB or Socket	Direct PCB or Socket	Direct PCB or Socket

DC to DC

Part numbers	GRMS0160DD3	GRMS0260DD3	GRMS0360DD3
Load Current	1A	2A	3A
DC Operating Voltage	2-60VDC	2-60VDC	2-60VDC
Input Control Current	≤10mA	≤10mA	≤10mA
Nominal input voltage UN	3-32VDC	3-32VDC	3-32VDC
On-State Voltage Drop	≤1.5V	≤1.5V	≤200mV
Output off-state leakage current	≤15μA	≤15μA	≤15μA
Switching Speeds(turn-on)	50μS	50μS	60μS
Switching Speeds(turn-off)	400μS	400μS	600μS
Min. load current	500μA	500μA	5mA
Isolation Voltage	2500VAC	2500VAC	2500VAC
Contact switching type	1 NO contact	1 NO contact	1 NO contact
Protective circuit	freewheeling diode	freewheeling diode	freewheeling diode
Operational Temperature	-20 ~ 60°C)	(-20 ~ 60°C)	(-20 ~ 60°C)
Install	Direct PCB or Socket	Direct PCB or Socket	Direct PCB or Socket

Dimension



DC to DC ultra slim Solid State Relay



Miniature Solid State Relay

- Features
- Vibration and shock resistant
 - Zero voltage switch at AC output
 - Limiting continuous current: 3A, 4A, 5A
 - Nominal input voltage Un: 3-32VDC
 - Output nominal voltage: 24-265VAC
 - Dielectric strength 2500V
 - DC Control, AC Output
 - Optically Isolated
 - Machine Insertable, Wave Solderable

Part Numbers	GRML0328ZD3	GRML0428ZD3	GRML0528ZD3
Load Current	3A	4A	5A
AC Operating Voltage	24-265VAC	24-265VAC	24-265VAC
Input Control Current	≤10mA	≤10mA	≤10mA
Zero-Cross Turn-OnVoltage	3-32VDC	3-32VDC	3-32VDC
On-State Voltage Drop	≤1.5V	≤1.5V	≤1.5V
Output off-state leakage current	≤5mA	≤5mA	≤5mA
Switching Speeds (turn-on)	0.5-cycles	0.5-cycles	0.5-cycles
Switching Speeds (turn-off)	0.5-cycles	0.5-cycles	0.5-cycles
Min. load current	25mA	25mA	25mA
Isolation Voltage	2500VAC	2500VAC	2500VAC
Contact switching type	1NO contact	1NO contact	1NO contact
Protective circuit	RC element	RC element	RC element
Operational Temperature	(-20 ~ 60°C)	(-20 ~ 60°C)	(-20 ~ 60°C)
Install	Direct PCB or Socket	Direct PCB or Socket	Direct PCB or Socket

Part Numbers	GRML0360DD3	GRML0460DD3	GRML0560DD3
Load Current	3A	4A	5A
DC Operating Voltage	2-60VDC	2-60VDC	2-60VDC
Input Control Current	≤10mA	≤10mA	≤10mA
Nominal input voltage UN	3-32VDC	3-32VDC	3-32VDC
On-State Voltage Drop	≤1.5V	≤1.5V	≤200mV
Output off-state leakage current	≤15μA	≤15μA	≤15μA
Switching Speeds (turn-on)	50μS	50μS	60μS
Switching Speeds (turn-off)	400μS	400μS	600μS
Min. load current	500μA	500μA	5mA
Isolation Voltage	2500VAC	2500VAC	2500VAC
Contact switching type	1NO contact	1NO contact	1NO contact
Protective circuit	freewheeling diode	freewheeling diode	freewheeling diode
Operational Temperature	(-20 ~ 60°C)	(-20 ~ 60°C)	(-20 ~ 60°C)
Install	Direct PCB or Socket	Direct PCB or Socket	Direct PCB or Socket

Dimension

