ZGZX SOLID STATE RELAYS

VSM Series Single Phase Solid State Relays (Module Type)

Features

- High power and high current.
- High performance/low cost circuit design.
- Logic compatible current regulated input.
- 4000 Vrms optical isolation.
- Both "Zero Voltage" & phase controllable "Random Switching" versions.
- High voltage (1200 Vpk) versions for 480 Vrms service.
- LED-indication for control input.
- Control voltage range: 3 to 32 Vdc or 90 to 280Vac
- Industy standard "SCR Modules" package.l

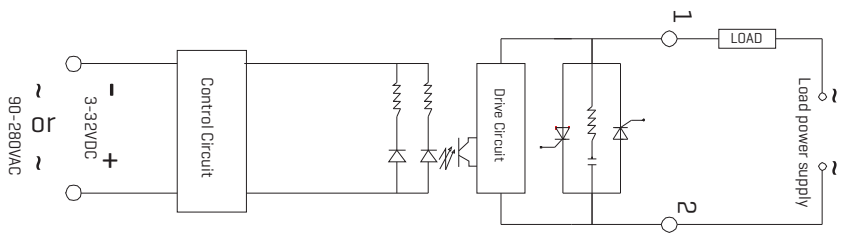
Ordering Options

VSM	500	D	A48	Z
VSM Series	**Load Current**	**Control Voltage**	**Output Voltage**	**Switching Type**
Single Phase Solid State Relay	500: 500Amps 600: 600Amps 800: 800Amps 1000: 1000Amps	D: 3-32VDC A: 90-280VAC	A28: 24-280VAC A48: 48-480VAC A66: 48-660VAC	Z: Zero Cross Turn-on R: Random Turn-on

Product Selection

Control Voltage	Output Voltage	Rated Operational Current			
		500Amps	600Amps	800Amps	1000Amps
3 to 32VDC	280VAC "Z"	VSM500DA28Z	VSM600DA28Z	VSM800DA28Z	VSM1000DA28Z
3 to 32VDC	280VAC "R"	VSM500DA28R	VSM600DA28R	VSM800DA28R	VSM1000DA28R
90 to 280VAC	280VAC "Z"	VSM500AA28Z	VSM600AA28Z	VSM800AA28Z	VSM1000AA28Z
90 to 280VAC	280VAC "R"	VSM500AA28R	VSM600AA28R	VSM800AA28R	VSM1000AA28R
3 to 32VDC	480VAC "Z"	VSM500DA48Z	VSM600DA48Z	VSM800DA48Z	VSM1000DA48Z
3 to 32VDC	480VAC "R"	VSM500DA48R	VSM600DA48R	VSM800DA48R	VSM1000DA48R
90 to 280VAC	480VAC "Z"	VSM500AA48Z	VSM600AA48Z	VSM800AA48Z	VSM1000AA48Z
90 to 280VAC	480VAC "R"	VSM500AA48R	VSM600AA48R	VSM800AA48R	VSM1000AA48R

Connection Diagram



Input Specifications

Parameter-list	Specification Limits	
Input Parameter	D	A
Control Voltage Range	3 to 32VDC	90 to 280VAC
Input Current (Max.)	13/16mADC @=5V/12V	29mAAC@=220V
Must Turn-on Voltage	3VDC	90VAC
Must Turn-off Voltage	1VDC	10VAC
Reverse Voltage (Max.)	-6VDC	/

Wenzhou Zhongxuan Electric Technology Co., Ltd.
Tel: +86 13868881108
Homepage://www.zgzxele.com E-mail:sales@zgzxele.com
Add: No.100 Xinguan Road, Liushi, Yueqing,Zhejiang, 325604 P.R.China

VSM Series Single Phase Solid State Relays (Module Type)

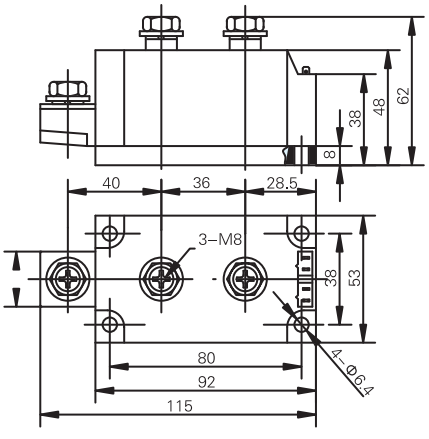
Output Specifications

Output Parameter	Units	Specification Limits			
Model No.: VSM	Amps	500	600	800	1000
Load Current Range	Arms	0.1 to 50	0.1 to 600	0.1 to 800	0.1 to 1000
Surge Current 20mSec (Max.)	Arms	7200	8800	11500	12000
Load Voltage Range (280V)	Vrms	24 to 280			
Transient Overvoltage (280V)	Vpk	≥1200			
Load Voltage Range (480V)	Vrms	48 to 480			
Transient Overvoltage (480V)	Vpk	≥1600			
Frequency Range	Hz	47 to 63			
Off State dv/dt (Min.)	V/μsec	500			
Off State Leakage Current (Max.)	mArms	≤8			
On State Voltage Drop (Max.)	Vrms	1.8			
Thermal Resistance, (Rthjc)	°C/W	0.1	0.1	0.08	0.07
Turn on Time (Max.) "Z"	Cycle	1/2			
Turn off Time (Max.) "D"	Cycle	1/2			
Turn on Time (Max.) "R"	mSec	1			
Turn off Time (Max.) "A"	mSec	10			

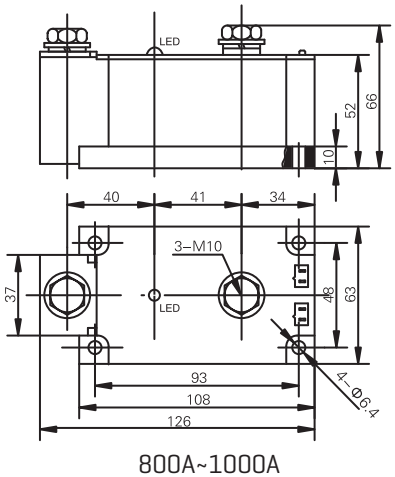
General Specifications (Ta=25°C)

Description	500	600	800	1000
Dielectric Strength, Input to Output (50/60 Hz)	2500Vrms			
Dielectric Strength, Input/Output to Base (50/60 Hz)	2500Vrms			
Minimum Insulation Resistance (@ 500 VDC)	$10^9\Omega$			
Maximum Capacitance, Input/Output	0.8pF			
Ambient Operating Temperature Range	-30 to 80°C			
Ambient Storage Temperature Range	-30 to 100°C			
Humidity per IEC60068-2-78	95%			
LED Input Status Indicator	Red			
Baseplate Material	Pure copper			
Weight	880g		1500g	

Dimensions



500A~600A



800A~1000A

Wenzhou Zhongxuan Electric Technology Co., Ltd.
Tel: +86 13868881108
Homepage://www.zgzxele.com E-mail:sales@zgzxele.com
Add: No.100 Xinguan Road, Liushi, Yueqing,Zhejiang, 325604 P.R.China