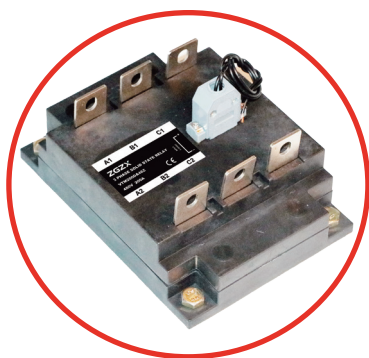


VTM Series Three Phase Solid State Relays



Features

- Three phase Solid State Relays
- Rated operational current 3X200, 3X300, 3X400 and 3X500Amps.
- High voltage [1600 Vpk] versions for 530 Vrms service.
- Both "Zero Voltage" & phase controllable "Random Switching" versions.
- Input Voltage Range 3 to 32 Vdc, 90 to 280Vac.
- 2500 Vrms Optical Isolation.[input/output]

Ordering Options

VTM

VTM Series

Three Phase
Solid State Relay

200

Load Current

200: 200Amps
300: 300Amps
400: 400Amps
500: 500Amps

D

Control Voltage

D: 3-32VDC
A: 90-280VAC

A48

Output Voltage

A48: 48-480VAC
A53: 53-530VAC

Z

Switching Type

Z: Zero Cross Turn-on
R: Random Turn-on

Product Selection

Control Voltage	Output Voltage	Rated Operational Current			
		200Amps	300Amps	400Amps	500Amps
3 to 32VDC	480VAC "Z"	VTM200DA48Z	VTM300DA48Z	VTM400DA48Z	VTM500DA48Z
3 to 32VDC	480VAC "R"	VTM200DA48R	VTM300DA48R	VTM400DA48R	VTM500DA48R
90 to 280VAC	480VAC "Z"	VTM200AA48Z	VTM300AA48Z	VTM400AA48Z	VTM500AA48Z
90 to 280VAC	480VAC "R"	VTM200AA48R	VTM300AA48R	VTM400AA48R	VTM500AA48R
3 to 32VDC	530VAC "Z"	VTM200DA53Z	VTM300DA53Z	VTM400DA53Z	VTM500DA53Z
3 to 32VDC	530VAC "R"	VTM200DA53R	VTM300DA53R	VTM400DA53R	VTM500DA53R
90 to 280VAC	530VAC "Z"	VTM200AA53Z	VTM300AA53Z	VTM400AA53Z	VTM500AA53Z
90 to 280VAC	530VAC "R"	VTM200AA53R	VTM300AA53R	VTM400AA53R	VTM500AA53R

Input Specifications

Parameter-list	Specification Limits	
Input Parameter	D	A
Control Voltage Range	3 to 32VDC	90 to 280VAC
Input Current [Max.]	33/56mA DC @=5V/12V	13mA AC @=220V
Must Turn-on Voltage	3VDC	90VAC
Must Turn-off Voltage	1.5VDC	10VAC
Reverse Voltage [Max.]	-6VDC	/

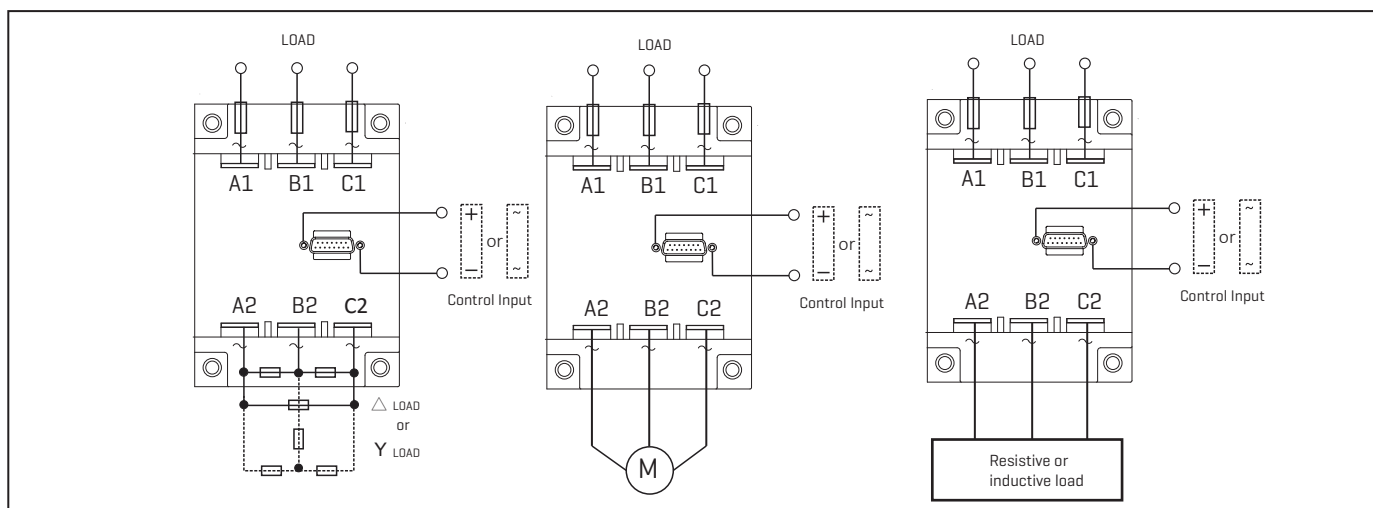
Output Specifications

Output Parameter	Units	Specification Limits			
Model No.: VTM	Amps	200	300	400	500
Load Current Range	Arms	3x200	3x300	3x400	3x500
Surge Current 20mSec [Max.]	Arms	2100	5000	7000	8000
Load Voltage Range [480V]	Vrms	48 to 480			
Transient Overvoltage [480V]	Vpk	≥1200			
Load Voltage Range [530V]	Vrms	53 to 530			
Transient Overvoltage [530V]	Vpk	≥1600			
Frequency Range	Hz	47 to 63			
Off State dv/dt [Min.]	V/μsec	500			
Off State Leakage Current [Max.]	mAmps	≤10	≤10	≤15	≤20
On State Voltage Drop [Max.]	Vrms	1.8			
Thermal Resistance, [Rthjc]	°C/W	0.14	0.09	0.072	0.065
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			

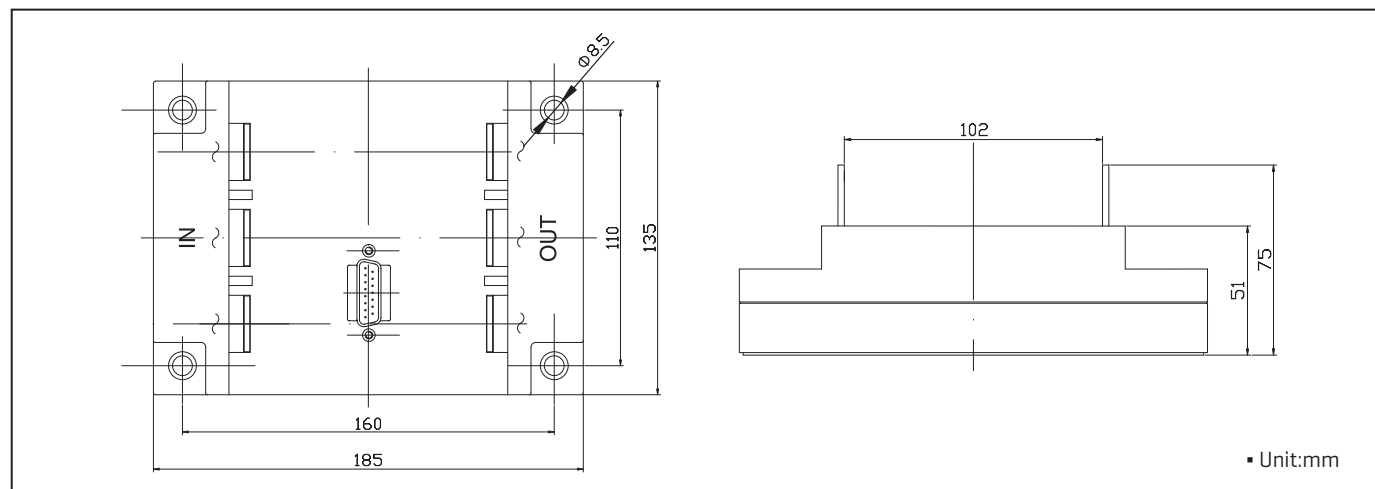
General Specifications [Ta=25°C]

Description	200A	300A	400A	500A
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 Ω			
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	No			
Baseplate Material	Pure copper			
Weight	2200g			

Connection Diagram



Dimensions



Heatsink for Solid State Relays

VTR-3

