



Features

Motor reversing Solid State Relays for 3-phase industrial motors up to 7 KW.

- Operational voltage: Up to 530VAC rms
- High performance /low cost circuit design.
- Built-in interlock function
- AC or DC control voltage
- LED indication for direction
- Insulation: Reed relay or opt coupler (input-output)2500VAC rms
- Control voltage range:10~30 Vdc or 115 Vac
- This series with Dual SCR Power Hybrid technology provide highly efficient thermal management for greatly increased cyclic life.

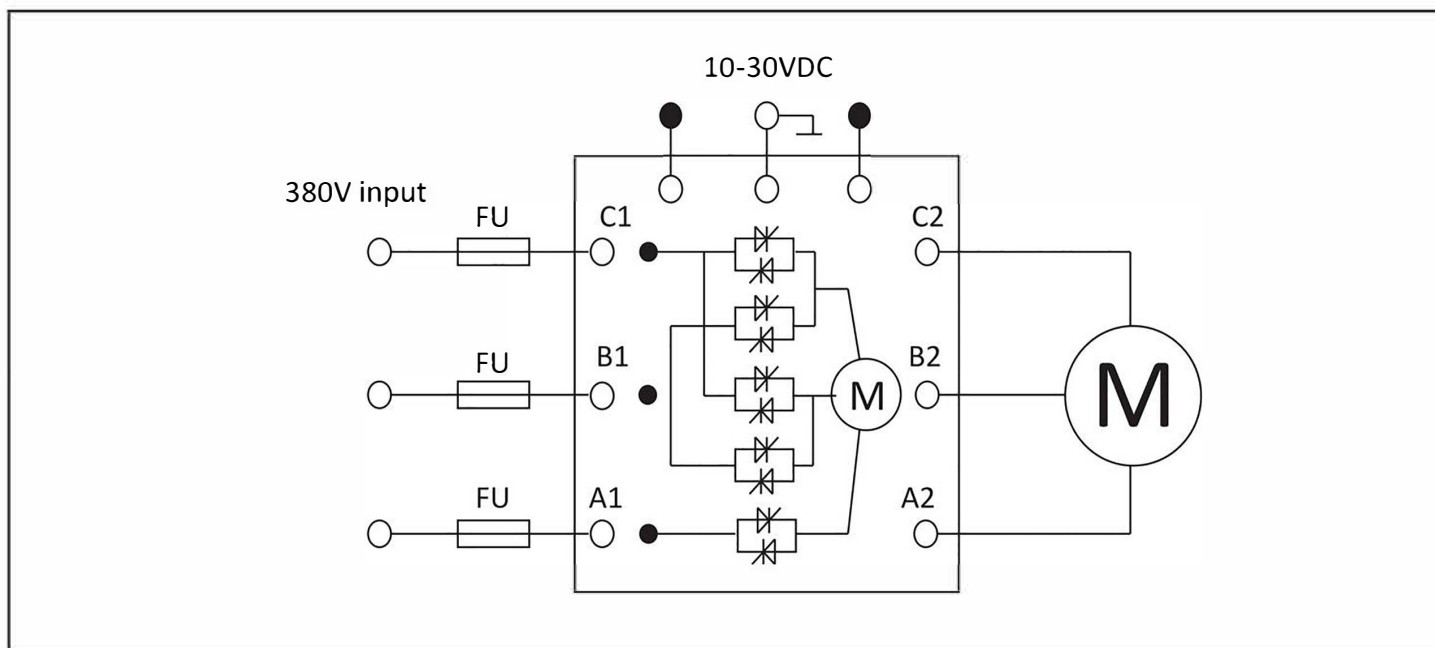
Ordering Options

VMR	40	48	D	D
VMR Series	Motor Load Power	Rated Operational Voltage	Switched phase	Control Voltage
Reversing relay	10: 1kW 30: 3kW 50: 5kW 70: 7kW	48: 480VAC 53: 530VAC	D:Two leg models T: Three leg models	D: 10-30VDC A: 115VAC

Product Selection

Voltage	Control voltage	Load power			
		1kW	3kW	5kW	7kW
480 VACrms	10 to 30Vdc	VMR1048DD	VMR3048DD	VMR5048DD	VMR7048DD
		VMR1048TD	VMR3048TD	VMR5048TD	VMR7048TD
	115Vac	VMR1048DA	VMR3048DA	VMR5048DA	VMR7048DA
		VMR1048TA	VMR3048TA	VMR5048TA	VMR7048TA
530 VACrms	10 to 30Vdc	VMR1053DD	VMR3053DD	VMR5053DD	VMR7053DD
		VMR1053TD	VMR3053TD	VMR5053TD	VMR7053TD
	115Vac	VMR1053DA	VMR3053DA	VMR5053DA	VMR7053DA
		VMR1053TA	VMR3053TA	VMR5053TA	VMR7053TA

Connection Diagram



Specifications

PARAMETER	Units	Specification Limits			
Model No. VMR		1KW	3KW	5KW	7KW
INPUT SPECIFICATIONS ①	DC				
Control Voltage Range	Vdc	10 to 30	10 to 30	10 to 30	10 to 30
Input Current(Max.) @=12V	mAdc	30	30	30	30
Must Turn On Voltage	Vdc	8	8	8	8
Must Turn Off Voltage	Vdc	4	4	4	4
Display LED		yes	yes	yes	yes

INPUT SPECIFICATIONS ②	AC				
Control Voltage Range	Vdc	115	115	115	115
Input Current(Max.)	mAdc	35	35	35	35
Must Turn On Voltage	Vdc	85	85	85	85
Must Turn Off Voltage	Vdc	30	30	30	30
Display LED		yes	yes	yes	yes

OUTPUT SPECIFICATIONS ③

Load Current Range(Max.)	Arms	3x25	3x40	3x60	3x80
Surge Current,20 mSec (Max.)	Arms	250	500	600	1000
Load voltage Range	Vrms	24 to 530			
Transient Over voltage(Max.)	Vpk	≥1200			
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	1.6	1.6	1.8	1.8
Thermal Resistance (Rthjc)	°C/W	0.25	0.22	0.22	0.17
Turn On Time(Max.)	Cycle	1/2			
Turn Off Time(Max.)	Cycle				
Turn On Time(Max.)“A”	mSec	40			

COUPLING PARAMETER

Dielectric strength(Input/Output)	Vrms	2500
Surge Current,20 mSec (Max.)	Vrms	
Load voltage Range	pf	10

GENERAL SPECIFICATIONS

Ambient temperature range: Operating or Storage -30 to +80℃

Weight (typical) 430g

Base plate: Copper, nickel-plated

Mounting Dimension: LxWxH 104x74x39.5mm

