

## VFD500M AC Drive Open Loop General Purpose & Economic

### Features & Functions

- V/F & sensorless vector control
- Starting torque 150% at 0.5Hz in SVC
- HDI and HDO function
- Automatic torque boost
- Support LCD display
- Easy startup with simplified parameters
- 2-Independent S-ramps
- Vector/torque control
- Variable DC injection braking
- Energy saving
- Self-definition parameter
- In-built dynamic braking unit



- NEW** Internal EMC filter
- Complies with EN61800-3 Category C2 2<sup>nd</sup> Environment
- NEW** output frequency 3000hz
- Operation in high ambient temperature  $45^{\circ}\text{C}_{\text{avg}}$
- Enhanced reliability protection against humidity and pollution dust
- Onboard Comms Modbus RTU

### Widely applications

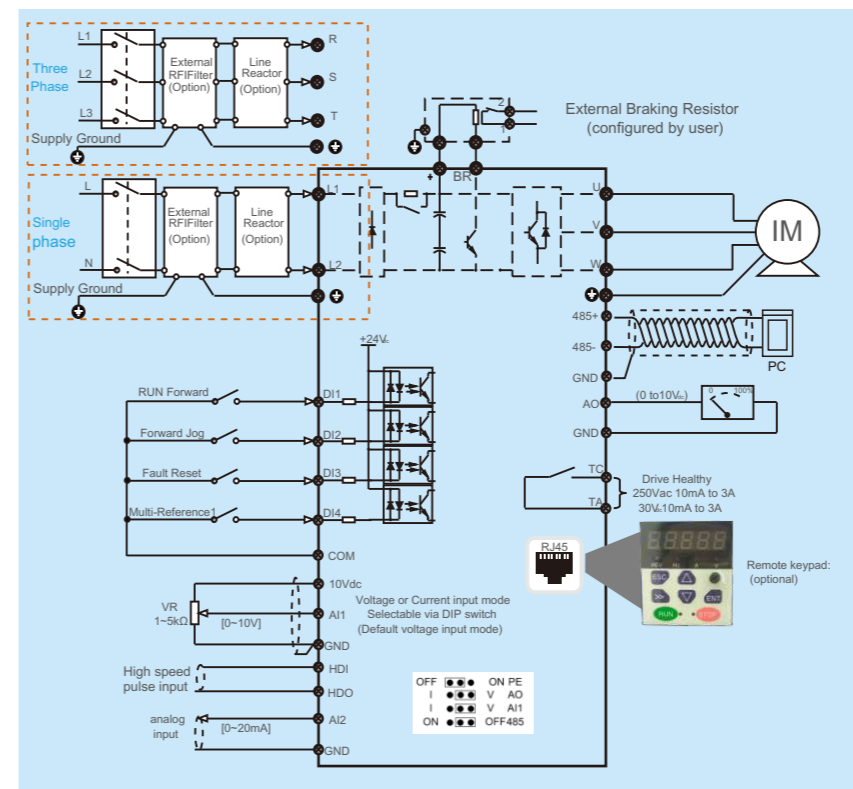
Pumping/ventilating/compressing	Centrifugal pumps Radial/axial fans Compressors			
Moving	Conveyor belts Roller conveyors Chain conveyors			
Processing	Mills Mixers Kneaders Crushers Agitators Centrifuges			

### General Specifications

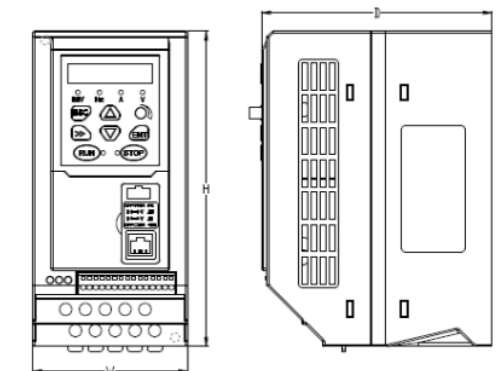
Voltage Class		Single-phase 220 Vac			Three-phase 400 Vac				
Drive Model: VFD500M-R75GS2B		S0.4B	S0.75B	S1.5B	S2.2B	T0.75B	T1.5B	T2.2B	T4.0B
Dimension	Height Width Depth	[H]: 145 mm [W]: 75 mm [D]: 115 mm			[H]: 175 mm [W]: 86 mm [D]: 128 mm				
Drive Input	Rated input voltage	Single-phase 200 to 240 Vac, -15% to +10%			Three-phase 380 to 480 Vac, -15% to +10%				
	Rated input current [A]	6.9	12.2	17.0	21.0	4.7	5.5	6.5	11
	Power capacity [kVA]	1.2	2.1	3.1	4.1	1.5	3.0	4.0	5.9
	Rated input frequency	50/60 Hz, $\pm 5\%$ (47 to 63 Hz)							
Drive Output	Applicable motor [kW]	0.4	0.75	1.5	2.2	0.75	1.5	2.2	4.0
	[HP]	0.5	1	2	3	1	2	3	5
	Output Current [A] <sup>*4</sup>	2.8	4.5	8	10.6	2.5	4.2	5.6	9.4
	Overload Capacity	150% for 60 Sec & 180% for 3 Sec							
	Max. output voltage	200 to 240 Vac (Proportional to input voltage)				380 to 480 Vac (Proportional to input voltage)			
Max. output frequency	3000 Hz								
Braking Resistor	Recommended power [kW]	80	80	100	100	150	250	300	500
	Recommended resistance [ $\Omega$ ]	$\geq 200$	$\geq 150$	$\geq 100$	$\geq 70$	$\geq 300$	$\geq 220$	$\geq 200$	$\geq 130$
Enclosure <sup>*5</sup>	IP 20								

\*4 Carrier switching frequency 6 kHz at rated output current.  
\*5 Size A is natural cooling, Size B are fan cooling/fan cooled.

### General Connection Diagram



### Dimension



Size A: 145\*75\*115mm  
Size B: 175\*86\*128mm

### Remote Keypad (optional)



Model: MDKE8 (LED type)  
Dimension: 116Hx76Wx40D(mm)  
Protection level: IP20  
Matching Cable Model: MD CAB 3.0m (included)

speed potentiometer (single turn)