

Fitness AC Motor Drive

RM6T7 Series

AC Induction, PM, BLDC Motor Control 3-IN-1 Motor Drive



Specifications

Model (RM6T7-□□□□□E1)	11P5	1002	12P5	21P5	2002	22P5
Max. Applicable Motor (HP)	1.5	2	2.5	1.5	2	2.5
Rated Output Current (Continuously) (A)	4	6	7.5	4.5	6	8
Power Source Voltage (V)	1ø 100-120V 50/60Hz ± 5%		1ø 200-240V 50/60Hz ± 5%			
Rated Input Current (A)	15.9	23.8	29.8	8.9	11.9	14.9
Rated Output Voltage (V)	3ø 190-230V					
Output Frequency (Hz)	0.1-400.00Hz					
Cooling	Natural/Fan cooling	Fan cooling		Natural/Fan cooling	Fan cooling	
Power Source Fluctuation (V)	90~132V			180~264V		
Inverter	IP Level	IP00				
	Console Interface	RS-485				
	Error Protection	OE(over voltage) · OC(over current) · OL1(inverter over load) · OL2(Limited Current Protection) · OH(over heat) · ESP(emergency stop) · LF(output lead fault) · FOT(IGBT Fault)				
Incline Control	Output Voltage	AC 1ø 110V/220V *				
	Output Current	3A (Incline Duty)				
	Position Detection Interface	Potentiometer or Photo-Pulse				
Console Power	Output Voltage	DC 12V ± 10%				
	Output Current	1.5A				
Environment	Installation Site	No corrosive/conductivity gas, liquid and dust.				
	Ambient Temp.	0°C(32°F) ~ +40°C(104°F) (No condensation and freezing)				
	Storage Temp.	-25°C(-13°F) ~ +70°C(158°F)				
	Humidity	Below 90% RH (No condensation)				
	Vibration	Below 11.8m/sec ² (1.2G)				

* The output voltage of the incline control is the same as power source voltage.

Features

- ▶ Comply with AC Induction motor, PM motor and BLDC motor control. High Torque at low speed. Lowest Speed 0.2km/H which is apply to rehabilitation treadmill purposed.
- ▶ Auto-tuning function: Automatically adjusts the parameter based on motor's features.
- ▶ Built-in pedometer, no sensor required.
- ▶ Built-In Incline motor control module. Comply with potentiometer singal & Photo-Pulse. Unlimited level tuning for console incline calibration.
- ▶ Power lose Ramp-Stop function avoid the user from getting injured when power shutdown.
- ▶ Software updated through communciation terminal. No extra programming device required.
- ▶ The drive has pass 1.2G triaxial vibration test. It also monitors tof temperture of built-in NTC, signal & trips when overheated.

Dimensions

Unit : mm

