

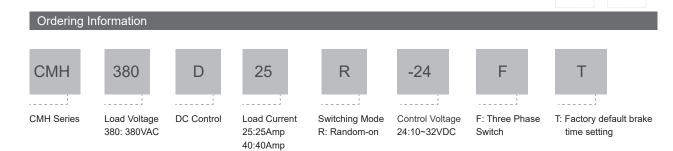
Product Description

CMH motor reversing module are specially designed for three-phase motor control, the control circuit contains logic interlocking, delay circuits, and the switching time between forwarding and reversing is 80ms; with built-in brake function.

- 10-32VDC Input Control
- Applicable motor power below 2.5kW
- Dielectric Strength: 4000Vrms
- Internal RC Protection Circuit
- Equipped with braking function, the braking time can be controlled internally or externally



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60:60Amp

General Specifications

Input Specifications (Ta=25°C)					
Auxiliary Power Supply	CMH24FT Series	10-30VDC			
Control Voltage Range		10-32VDC			
Must Turn-on Voltage		10VDC			
Must Turn-off Voltage		4VDC			
Maximum Input Current		35 mA@32VDC			
Turn-on Delay Time (Typical)		80±10ms			
Braking Time		0-2s Adjustable, Initial Time 460ms			

Output Specifications(Ta=25°C)		
Load Voltage Range		300-440VAC
Maximum Transient Overvoltage		1200Vpk
Minimum Load Current		100mA
Maximum Turn-off Time		20ms
	25A	250A
Maximum Surge Current (@10ms)	40A	400A
	60A	600A
Maximum Off-State Leakage Current@Rated Load Voltage		5mA
Maximum On-State Voltage Drop@Rated Current		1.7Vrms
	25A	312A ² s
Maximum I²t (@10ms)	40A	800A ² s
	60A	1800A²s
	25A	0.75kW
Motor Power	40A	1.1kW
	60A	2.5kW
Minimum Off-State dv/dt		500V/µs

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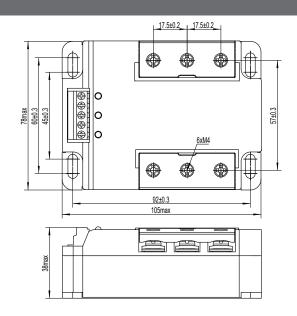


General Specifications (Ta=25°C)					
Dielectric Strength (50/60Hz)	Input/Output	4000Vrms			
	Input, output/Base	2500Vrms			
Minimum Insulation Resistance (@500VDC)		1000ΜΩ			
Ambient Temperature Range		-30°C \sim +80°C			
Storage Temperature Range		-30°C ∼ +100°C			
Pulse Immunity Level	IEC61000-4-4	2kV/5kHz			
Surge Immunity Level	IEC61000-4-5	2kV/Common mode; 1kV Differential mode			
Electrostatic Discharge Immunity Level	IEC61000-4-2	6kV/contact discharge, 8kV/air discharge			
Weight (Typical)		400g			
Working Status Indication	LED1	Forward Indication			
	LED2	Reverse Indication			
	LED1 / LED2	Braking Indication			

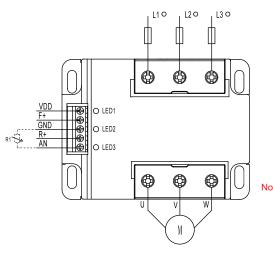
Applications

Suitable for motor control.

Outline Dimensions



Wiring Diagram



CMH...-24FT Series

VDD: Auxiliary power input Anode+ F+: Forward control input Anode+ GND: Common port input Cathode-R+: Reverse control input Anode+ AN: Adjustable braking time resistor interface LED1: Forward indication LED2: Reverse indication LED3: None L1/L2/L3: Three-phase input U/V/W: Three-phase load output

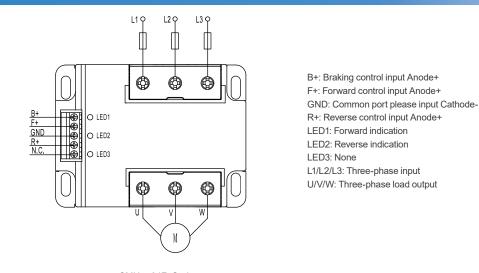
Note: When resistor R1 is in open circuit, the initial braking time of the product is 460ms. The maximum adjustable braking time range of the product is 0~2s. If it is necessary to adjust the braking time of the product, a resistor R1 (with a resistance power of 0.125W or above) should be connected between AN and GND. The resistance value range of R1 that can be connected is between $0^{-5}k\Omega$; The smaller the resistance value of R1, the shorter the corresponding braking time. It is recommended that customers adjust the resistance from small to large in actual application to avoid motor damage caused by overheating due to prolonged braking time.

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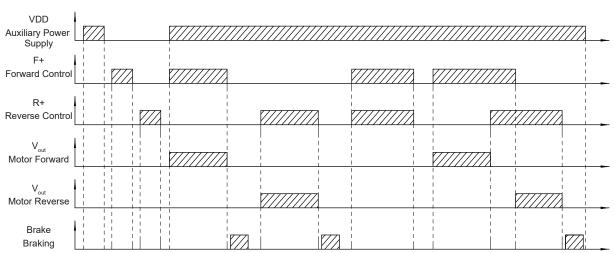


CMH Series Three-phase Motor Reversing Module



CMH...-24F Series

Sequence Diagram



CMH...-24FT series sequence diagram of forward or reverse control and braking

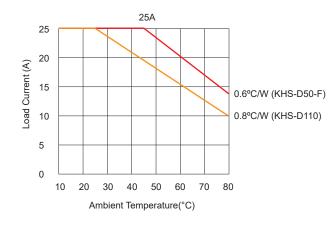
	CMH24F series sequer	nce diagram of forward or r	everse control and bra	king
B+ Braking Signal	PTTT	R773	8777	P777
Braking Signal				
F+				
Forward Contro			////////	
R+	1			
Reverse Contro				
V _{out} Motor Forward				777777777
V _{out} Motor Reverse				
Brake	1			
Braking				

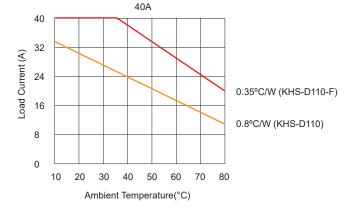
Note: When braking, a higher current will be generated on the motor, resulting the heating. Therefore, the braking time should be minimized to avoid the damage to the motor due to overheating.

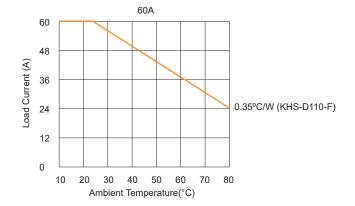
ISO 4500



Thermal Derating Curve







General Notes

1. The terminals should ensure that the wiring is firm. Loose wiring can cause abnormal heating and damage to the product.

2. The recommended installation torque for the input terminal is $(0.2\sim0.5)$ N·m, and the recommended installation torque for the M4 terminal is $(0.98\sim1.37)$ N·m.

3. Please ensure reliable grounding when using the SSR.

Warnings

- 1. The product's side panels may be hot, allow the product to cool before touching.
- 2. Disconnect all power before installing or working with this equipment.
- 3. Verify all connections and replace all covers before turning on power.

