

FRMS

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

AC Reversible Motor SSR



FRMS SERIES



Features

AC200 / 3 phase inductive motor for forward /reverse control
 Panel mounting type

Dielectric strength between input and output at 2,500V/1 min.
 Built-in interlock circuit

Type Information

F R M S 1 1 - 2 0 5 H

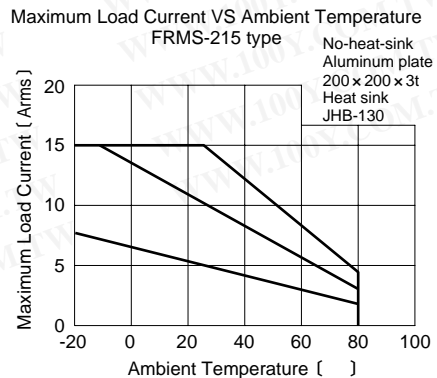
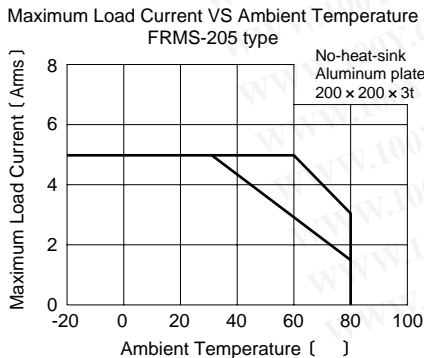
Zero-cross-circuit
 01 : Not Built-in
 11 : Built-in

Standard load voltage
 2 : 100V, 200V

Max. load current
 05 : 5A
 15 : 15A

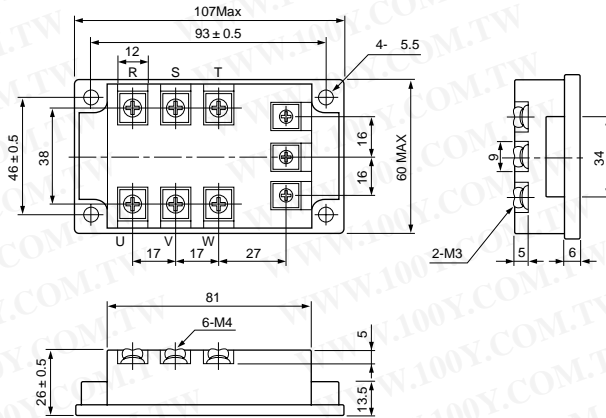
Input voltage range
 H : DC21 ~ 26.5V

Characteristics



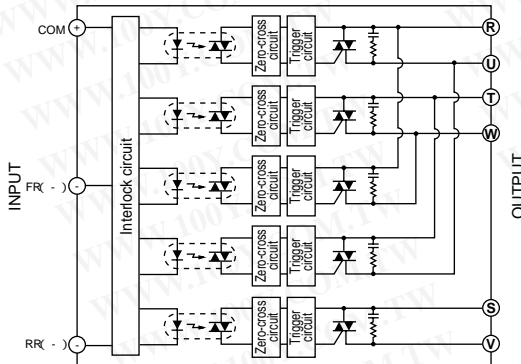
Description in the catalogue is subject to change without notice. Please read the specifications thoroughly before using. Please contact JEL SYSTEM for further information.

Dimensions (mm)



Torque range
 Output terminal 1.5 N · m (MAX)
 Input terminal 0.8 N · m (MAX)
 Outer case 1.5 N · m (MAX)

Equivalent Circuit



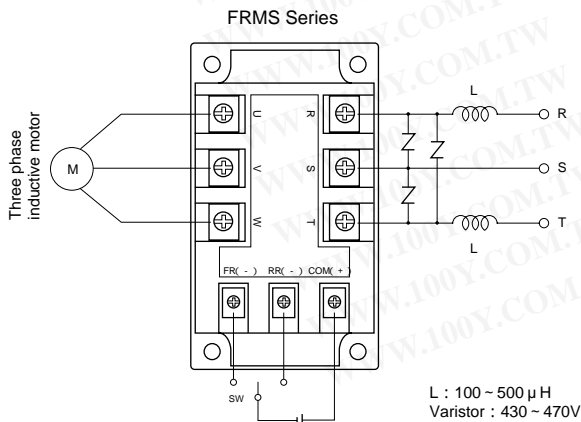
ZC : Zero-cross circuit (Zero-cross circuit application)

FRMS-	Suitable Motor
FRMS-205 type	0.75kW
FRMS-215 type	1.5kW

Above motors may not be applied when the heat release condition is different. Please refer the data on previous page.122

Model	Zero-cross circuit
FRMS11-2 ** H	
FRMS01-2 ** H	x

Connecting Chart (Example)



L : 100 ~ 500 μH
 Varistor : 430 ~ 470V

Input voltage	Output connection
COM(+) - FR(-)	U ↔ R V ↔ S W ↔ T
COM(+) - FR(-)	U ↔ S V ↔ R W ↔ T

Description in the catalogue is subject to change without notice. Please read the specifications thoroughly before using. Please contact JEL SYSTEM for further information.

Ratings

(Ta = 25)

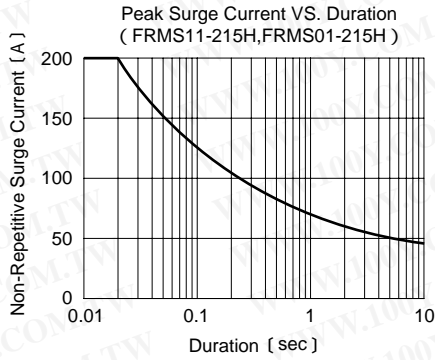
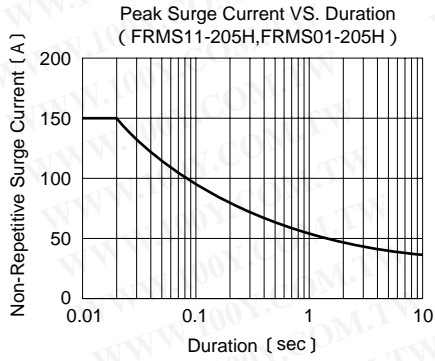
	Item	Symbols	FRMS11-205H	FRMS11-215H	FRMS01-205H	FRMS01-215H	Units
Output	Rated Load Voltage		220				V _{ACrms}
	Maximum Load Current	I _{OMAX}	5	15	5	15	A _{ACrms}
	Maximum Load Voltage	V _{OMAX}	242				V _{ACrms}
	Peak Repetitive Off State Voltage	V _{DRM}	600				V
	Peak 1 Cycle Surge Current	I _{SURGE}	15 \times (50Hz)	20 \times (50Hz)	15 \times (50Hz)	20 \times (50Hz)	A
	Frequency	f	50、60				Hz
Input	Maximum Input Voltage	V _{IMAX}	26.5				V _{DC}
	Maximum Input Current	I _{IN}	40.0				mA _{DC}
General	Dielectric Strength	V _{ISO}	2,500 / 1min. (Between input-output-case)(Rh40 ~ 60 %)				V _{ACrms}
	Isolation Resistance	R _{ISO}	10 ⁸ and above DC500V (Between input-output-case)(Rh40 ~ 60 %)				
	Operating Temperature Range	T _{OPR}	- 20 ~ + 80				
	Storage Temperature Range	T _{STG}	- 25 ~ + 85				

Electrical Characteristics

(Ta = 25)

	Item	Symbols	FRMS11-205H	FRMS11-215H	FRMS01-205H	FRMS01-215H	Units
Output	Load Voltage Range	V _O	180 ~ 242				V _{ACrms}
	Off State Leakage Current	I _{LEK}	15.0 and below (V _O = 100V)				mA _{ACrms}
	On State Voltage Drop	V _{SAT}	1.5 and below				V _{ACrms}
	Minimum Load Current	I _{OMIN}	50				mA
Input	Input Voltage Range	V _I	21 ~ 26.5				V _{DC}
	Operate Voltage	V _P	21 and below				V _{DC}
	Release Voltage	V _D	1 and above				V _{DC}
General	Operate Time	T _{ON}	1/2 Cycle + 1ms and below		1ms and below		
	Release Time	T _{OFF}	1/2 Cycle + 1ms and below				
	Capacitance	C _{IO}	15 and below				PF
	Zero Cross Turn On		Built In		Not Built In		
	Approved Standards						

Description in the catalogue is subject to change without notice. Please read the specifications thoroughly before using.
Please contact JEL SYSTEM for further information.



Description in the catalogue is subject to change without notice. Please read the specifications thoroughly before using. Please contact JEL SYSTEM for further information.