Features

- Non-contact switch has long life, high reliability, fast switching speed and low control power;
- Load current 5A 75VAC~264VAC
- Photoelectric isolation, dielectric strength 2500VAC
- TTL compatible
- PCB mounting,
- Environment-friendly product(RoHS compliant)
- Outline Dimensions:(44.5×10.5×26)mm
- Main uses: electromagnetic valves, electric motors, incandescent
 lamps, communication and network equipment, computer terminal products,
 digital audio, video equipment, control systems, and instruments, medical devices, entertainment facilities, etc.;
- GB/T 36640-2018;IEC 62314:2006



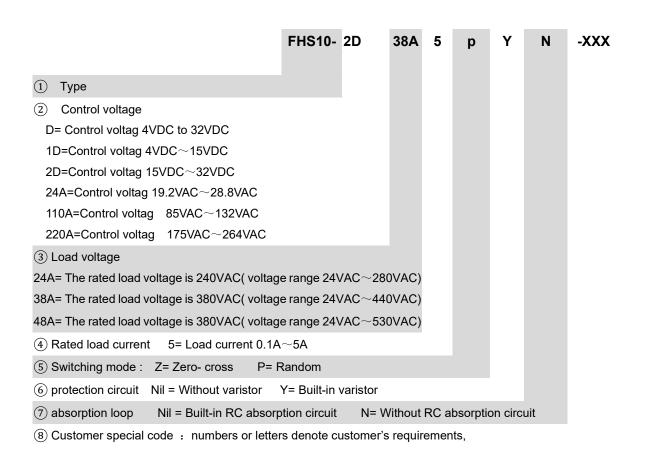
■ CHARACTERISTICS

INPUT SPECIFICATIONS (Ta=25°C)				
Control voltage range	D	(4~32) VDC		
	1D	(9.6~14.4) VDC		
	2D	(19.2~28.8) VDC		
	24A	19.2VAC~28.8VAC		
	110A	85VAC~132VAC		
	220A	175VAC~264VAC		
Must turn-on voltage	D	4VDC		
	1D	9.6VDC		
	2D	19.2VDC		
	24A	19.2VAC		
	110A	85VAC		
	220A	175VAC		
Must turn-off voltage		1VDC		
Max. input current		10mA		
OUTPUT SPECIFICATIONS (Ta=25°C)				
Load voltage range	24A	24VAC~280VAC		
	38A	24VAC~440VAC		
	48A	24VAC~530VAC		
Load current range		0.1~5A		
Max. surge current (10ms)		320A (10ms)		
Max. I²t for fusing (10ms A²S)		512		
Max. off-state leakage current		≤5mA		
Max. on-state voltage drop		1.5Vr.m.s		

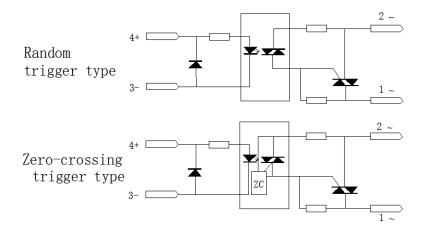
Solid State Relay

May turn on time			Zerocross	≤1/2 Cycle+1ms	
Max. turn-on time		Random	≤1ms		
Max. turn-off time			≤1/2 Cycle+1ms		
Max. transient voltage			800V _{pK}		
Min. off-state(dv/dt)			1000V/uS		
Max. zero-cross over voltage			±15V		
Min. power factor			0.5		
GENERAL SPECIFICATIONS (Ta=25°C)					
Dielectric strength(input to output)			4000VAC	50HZ/60HZ 1min	
Insulation resistance			1000MΩ (500VDC)		
Overvoltage (1.2/50uS)			4KV		
Mechanical performance	Shock	Functional	98m/s ²		
	resistance	Destructive	980m/s ²		
	Vibration resistance		10Hz~55Hz 1.5mm DA		
Operating temperature			-30℃~80℃		
Storage temperature			-40°C~100°C		
Ambient humidity			45%~85%		
Unit weight			Approx.20g		

ORDERING INFORMATION

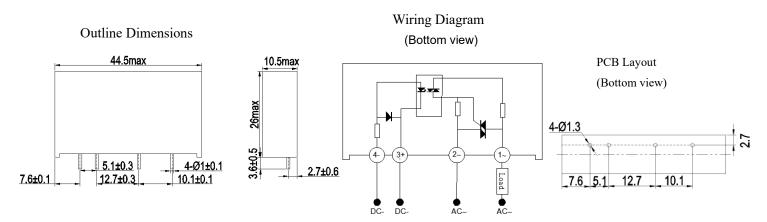


■ Circuit diagram



■ OUTLINE DIMENSIONS, WIRING DIAGRAMOUTLINE

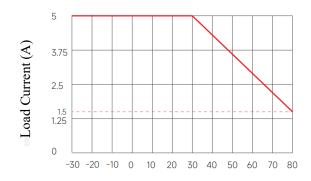
Unit: mm



Remark: (1) In case of no tolerance shown in outline dimension:outline dimension≤1mm,tolerance should be±0.2mm;outlinedimension>1mm and <5mm,tolerance should be ±0.3mm;outline dimension≥5mm,tolerance should be ±0.5mm.

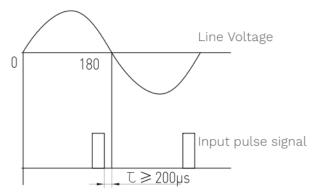
(2) The tolerance without indicating for PCB layout is always ±0.1mm.

■ CHARACTERISTIC CURVES



■ PRECAUTIONS

- 1. Soldering must be completed within 10s at 260°C or 5s at 350°C.
- 2. The SSR's case serves to dissipate the heat generated by the SSR itself. If poor ventilation is unavoidable, the load current must be derated. Please refer to the curve of Max. Load Current vs. Ambient Temperature for derating.
- 3. The internal input circuit of SSR does not have the reverse polarity protection, thus make sure the wiring of input and output and the input polarity is correct so as to avoid any damage to the SSR.
- 4. If the output transient voltage exceeds the nominal value, a varistor should be connected to the SSR's output terminal in parallel to prevent the SSR being broken down. The recommended varistor voltage is 470V.
- 5. When the SSR is used for phase modulation, the time interval between the negative edge of the input pulse signal and the line voltage zero crossing point must last over 200µs, or it may be out of control.



- 6. Please do not use the SSR exceeding the limitation which is specified on this datasheet.
- 7. The specification is for reference only. Specifications subject to change without notice.