

cosmo

Solid State Relay KSA240AC8

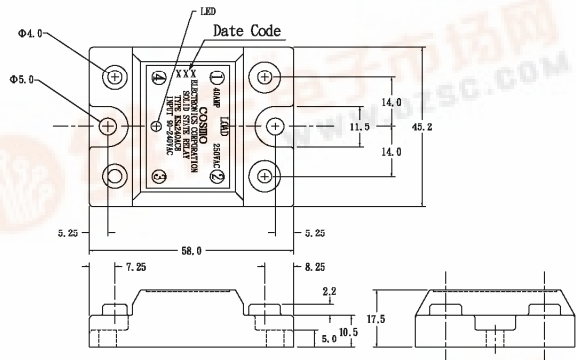
Features

1. Molded epoxy body.
2. Zero crossing circuit.
3. High input/output insulation.
4. Small size and light weight.
5. Fast reactive speed.
6. Good heat sinking.
7. Normally open.

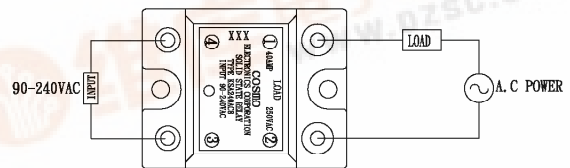
Applications

1. Household Appliances.
2. Temperature Control System.
3. Industrial Automatic Control.
4. Lighting System.
5. Office Appliances.
6. Factory Appliances.

Outside Dimension : Unit (mm)



Schematic : Top View



Absolute Maximum Ratings

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Input	Input Signal Voltage	100~240	VAC
	Drop-out Voltage	10	VAC
Output	RMS on-state current	40	Arms
	Peak one cycle surge current (8.3 ms)	400	A
	Repetitive peak-off state Voltage	600	V
	Operating frequency	47~70	Hz
	Critical rate of rise of on-state current	50	A/μS
	Load supply voltage	250	Vrms AC
Isolation Voltage input to output	Viso	4000	Vrms
Operating Temperature	Topr	-30~80	°C
Storage Temperature	Tstg	-30~100	°C

Electrical Characteristics

(Ta=25°C)

Parameter	Symbol	Conditions	MIN	TYP	MAX	Unit
Input	Pick-up Voltage	RIN=11KΩ			100	VAC
	Input resistance			11		KΩ
Output	On-state Voltage	IT=1Arms			1.5	Vrms
	Operating Current Minimum	Vout=240Vrms	50			mArms
	Leakage Current Open Circuit	Vout=240Vrms		3.5	8	mArms
	Critical rate of rise of off-state Voltage	See Note 1	100			V/μS
	Zero-cross Voltage				Yes	
	Load Voltage Rating	Vout	IT=50mArms MIN	50		280
Minimum trigger current	IFT	VDRM=600V			25	mA
Isolation resistance input to output	Riso	DC500V	10 ¹⁰			Ω
Turn-on time	Ton	60Hz AC			8.3	mS
Turn-off time	Toff	60Hz AC			8.3	mS
Thermal resistance (between junction and case)	Rth (j-c)			1.3		°C/W

Note1 : Output (dv/dt) protection is provided in all models, and they are designed to switch resistive or inductive loads to 0.2 power factor. The dv/dt rating is based on source impedance of 50 ohms.

Data Curve

