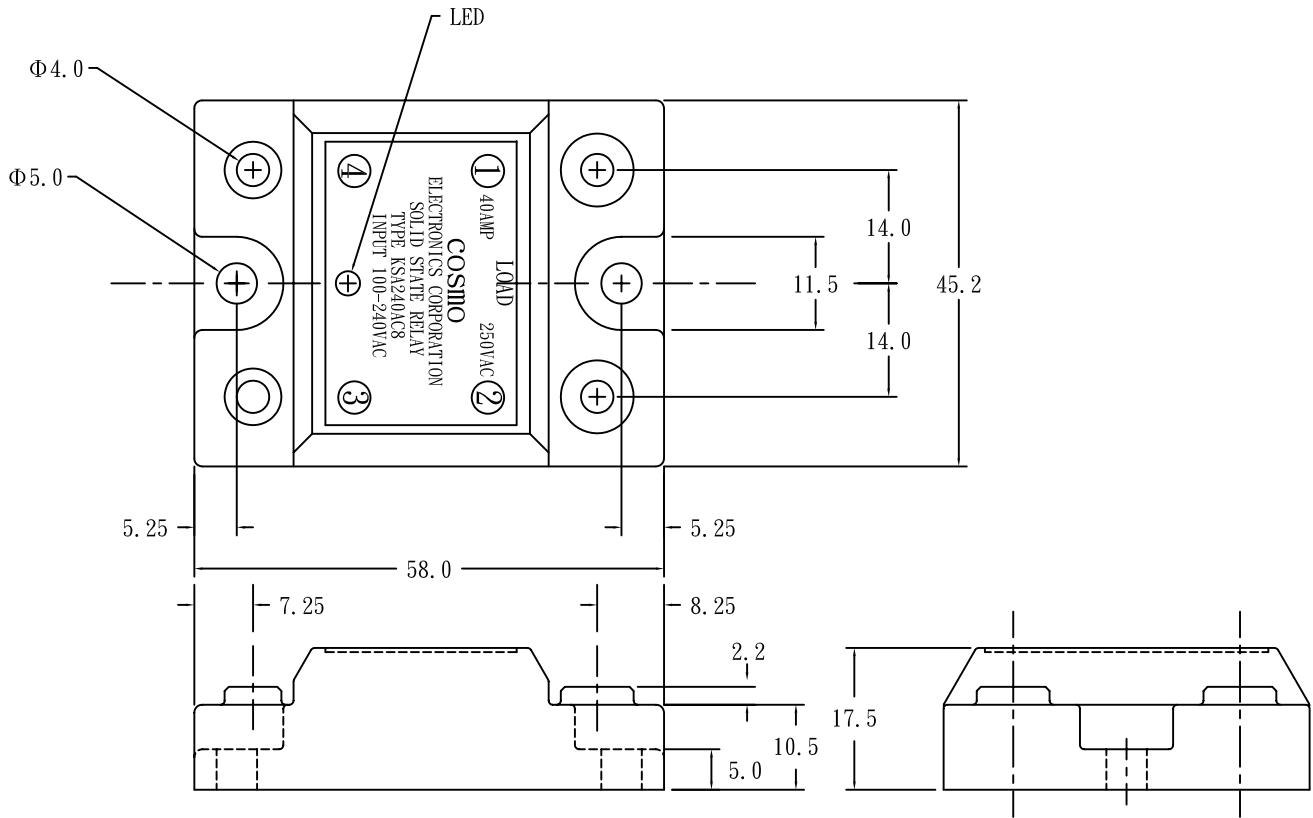


# PRODUCT SPECIFICATION

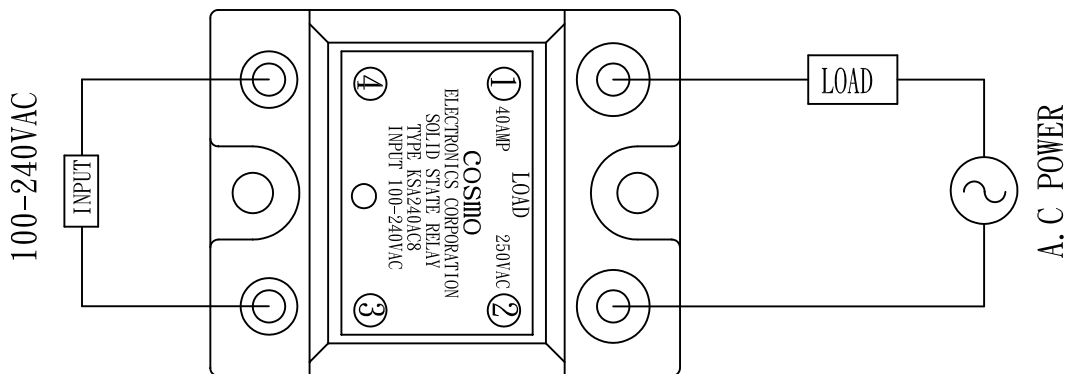
DATE: 11/13/03'

<b>COSMO</b> ELECTRONICS CORPORATION	SOLID STATE RELAY: <b>KSA240AC8</b>	NO. 58083240	REV.
		SHEET 1 OF 2	4

## 1. OUTSIDE DIMENSION : UNIT ( mm )



## 2. SCHEMATIC : TOP VIEW



# PRODUCT SPECIFICATION

DATE: 11/13/03'

<b>COSMO</b> ELECTRONICS CORPORATION	SOLID STATE RELAY: <b>KSA240AC8</b>	NO. 58083240	REV. 4
		SHEET 2 OF 2	

## 3. Absolute Maximum Ratings

(Ta=25°C)

Parameter		Symbol	Rating	Unit
Input	Input signal voltage	V <sub>IN</sub>	100~240	VAC
	Drop-out voltage	V <sub>do</sub>	10	VAC
Output	RMS on-state current	I <sub>T</sub>	40	Arms
	Peak one cycle surge current (8.3ms)	I <sub>surge</sub>	400	A
	Repetitive peak-off state voltage	V <sub>DRM</sub>	600	V
	Operating frequency	f	47~70	Hz
	Critical rate of rise of on-state current	di/dt	50	A/us
	Load supply voltage	V <sub>out</sub>	250	V <sub>rms</sub> AC
	Isolation voltage input to output	V <sub>iso</sub>	4000	V <sub>rms</sub>
Operating temperature		Topr	-30~100	°C
Storage temperature		Tstg	-30~125	°C
Soldering temperature 10sec		Tsol	300	°C

## 4. Electro-optical Characteristics

(Ta=25°C)

Parameter		Symbol	Conditions	MIN	TYP	MAX	Unit
Input	Pick-up voltage	V <sub>pu</sub>	R <sub>in</sub> =11KΩ			100	VAC
	Input current	R <sub>in</sub>			11		KΩ
Output	On-state voltage	V <sub>T</sub>	I <sub>T</sub> =1Arms			1.5	V <sub>rms</sub>
	Operating current	I <sub>op</sub>	V <sub>out</sub> =220V <sub>rms</sub>	50			mArms
	Leakage current	I <sub>leak</sub>	V <sub>out</sub> =220V <sub>rms</sub>		3.5	8	mArms
	Critical rate of rise of off-state voltage	dv/dt		100			V/us
	Zero-cross				YES		
	Load Voltage Rating	V <sub>out</sub>	I <sub>T</sub> =50mArms MIN	50		280	VAC
Minimum trigger current		I <sub>FT</sub>	V <sub>DRM</sub> =600V			25	mA
Isolation resistance input to output		R <sub>ISO</sub>	DC500V	10			GΩ
Turn-on time		T <sub>on</sub>	60Hz AC			8.3	ms
Turn-off time		T <sub>off</sub>	60Hz AC			8.3	ms
Thermal resistance (between junction and case)		R <sub>th</sub> (j-c)1			2.5		°C/W