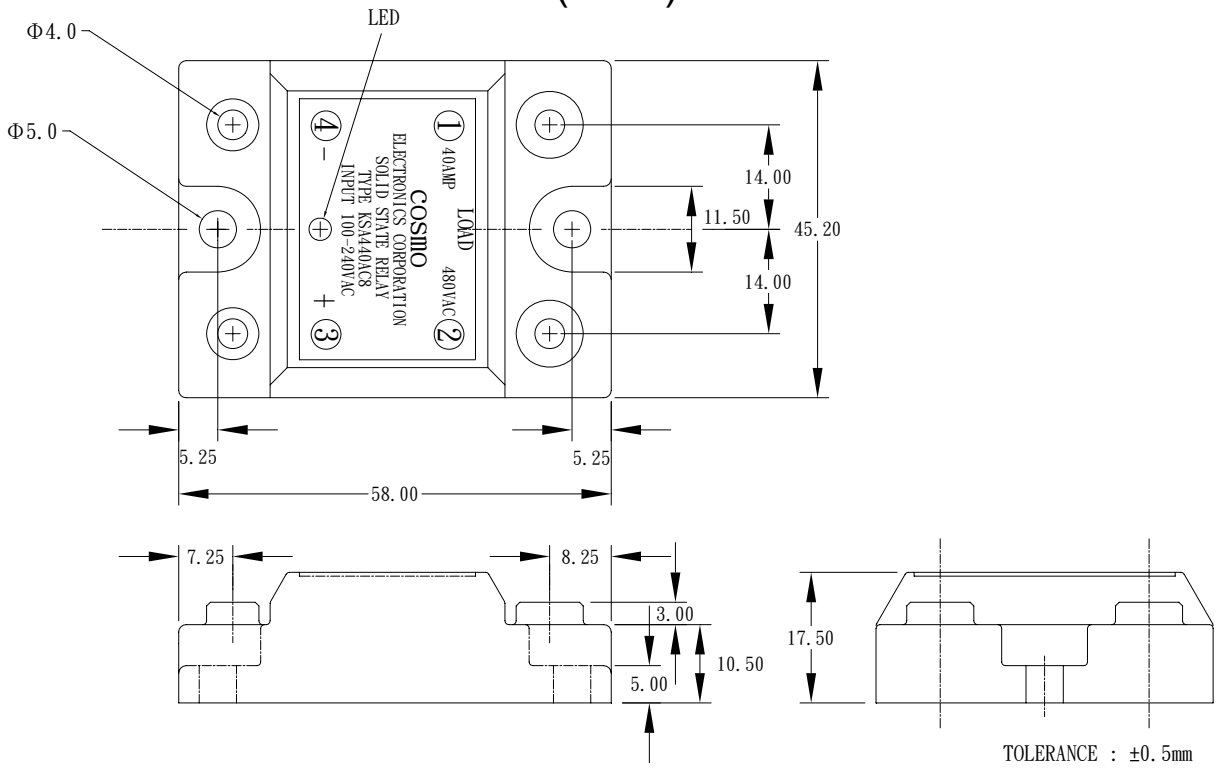
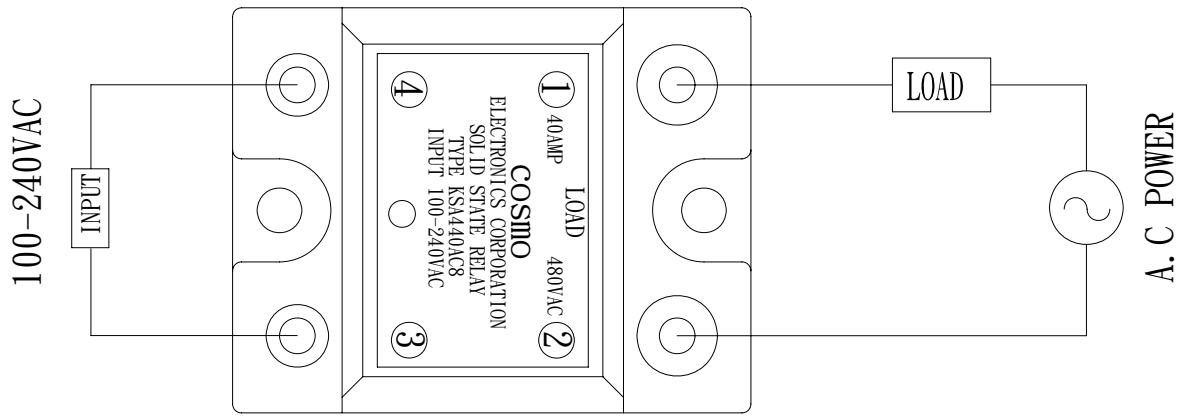
PRODUCT SPECIFICATION

cosmo ELECTRONICS CORPORATION	SOLID STATE RELAY : **KSA440AC8**	NO. 58083440 SHEET 1 OF 3	REV. 7

1. OUTSIDE DIMENSION : UNIT (mm)



2. SCHEMATIC : TOP VIEW



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		SHEET 2 OF 3	

3.Absolute Maximum Ratings

(Ta=25℃)

Parameter		Symbol	Rating	Unit
Input	Input signal voltage	V_{IN}	100~240	VAC
	Drop-out voltage	V_{do}	10	VAC
Output	RMS on-state current	I_T	40	Arms
	Peak one cycle surge current (8.3ms)	I_{surge}	400	A
	Repetitive peak-off state voltage	V_{DRM}	800	V
	Operating frequency	f	47~70	Hz
	Critical rate of rise of on-state current	di/dt	50	A/us
	Load supply voltage	V_{out}	480	Vrms AC
Isolation voltage input to output		V_{iso}	4000	Vrms
Operating temperature		T_{opr}	-30~100	℃
Storage temperature		T_{stg}	-30~125	℃
Soldering temperature 10 sec		T_{sol}	300	℃

4.Electrical Characteristics

(Ta=25℃)

Parameter		Symbol	Conditions	MIN	TYP	MAX	Unit
Input	Pick-up voltage	V_{pu}	Rin=11KΩ			100	VAC
	Input current	Rin			11		KΩ
Output	On-state voltage	V_T	I_T =1Arms			1.5	Vrms
	Operating current	I_{op}	Vout=480Vrms	50			mArms
	Leakage current	I_{leak}	Vout=480Vrms			12	mArms
	Critical rate of rise of off-state voltage	dv/dt		50	150		V/us
	Zero-cross voltage	V_{ox}			YES		
	Load Voltage Rating	V_{out}	I_T=50mArms MIN	75		480	VAC
Minimum trigger current		I_{FT}	V_{DRM}=800V			25	mA
Isolation resistance input to output		R_{ISO}	DC500V	10			GΩ
Turn-on time		T_{on}	60Hz AC			8.3	mS
Turn-off time		T_{off}	60Hz AC			8.3	mS
Thermal resistance (between junction and case)		R_{th} (j-c)I			2.5		℃/W

PRODUCT SPECIFICATION

- **Application Notice**

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