PRODUCT SPECIFICATION

1. OUTSIDE DIMENSION : UNIT (mm)
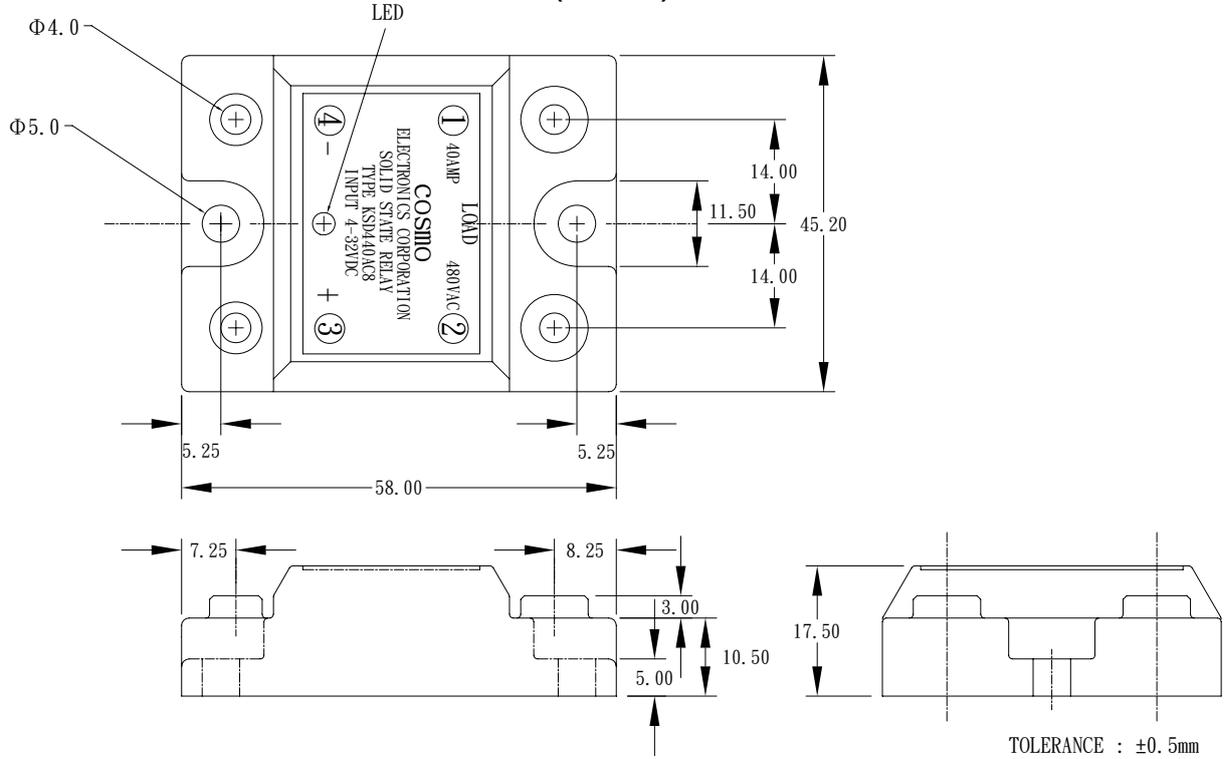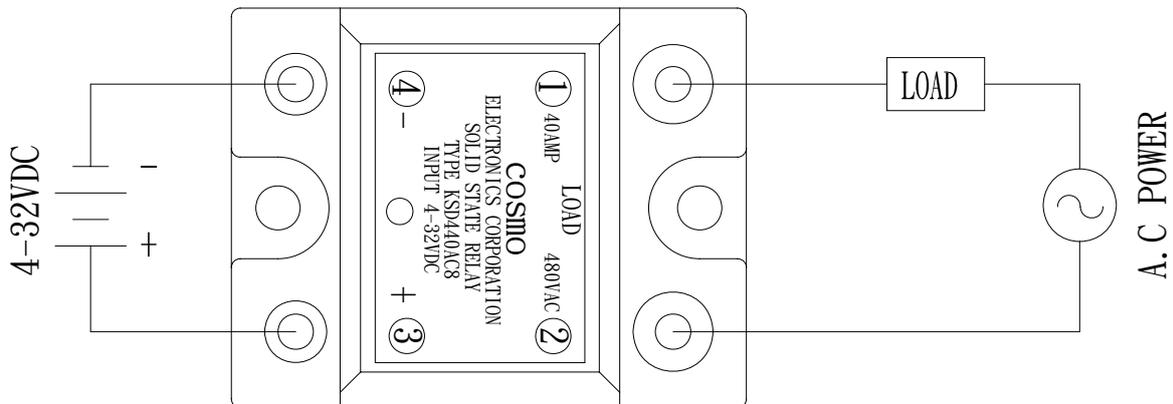
Φ4.0
LED
Φ5.0

14.00
11.50
45.20
14.00

5.25   5.25

58.00

7.25   8.25

3.00
10.50
5.00

17.50

TOLERANCE : ±0.5mm

Label text: ① 40AMP LOAD 480VAC ② COSMO ELECTRONICS CORPORATION SOLID STATE RELAY TYPE KSD440AC8 INPUT 4-32VDC ④ − + ③

2. SCHEMATIC : TOP VIEW

4-32VDC − +

LOAD

A.C POWER

Label text: ④ − ① 40AMP LOAD 480VAC ② COSMO ELECTRONICS CORPORATION SOLID STATE RELAY TYPE KSD440AC8 INPUT 4-32VDC + ③

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3.Absolute Maximum Ratings
(Ta=25℃)

	Parameter	Symbol	Rating	Unit
Input	Input signal voltage	V_{IN}	4~32	VDC
	Drop-out voltage	V_{do}	1	VDC
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}	It=1Arms			4	VDC
	Input current	I_{in}	Vin=4~32V	5		12	mA
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			14	mArms
	Critical rate of rise of off-state voltage	dv/dt		50	200		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)l			1.3		℃/W

PRODUCT SPECIFICATION

● **Application Notice**

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