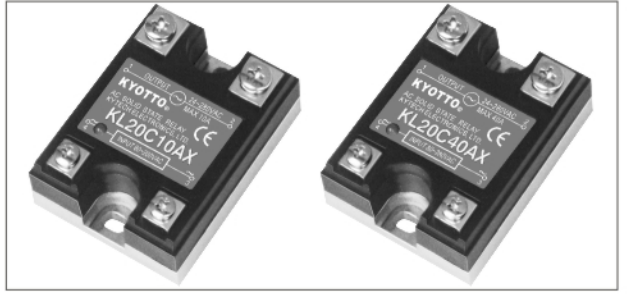


# AC SOLID STATE RELAY

**KL20C10AX**  
**KL20C15AX**  
**KL20C25AX**  
**KL20C40AX**

**KL SERIES**

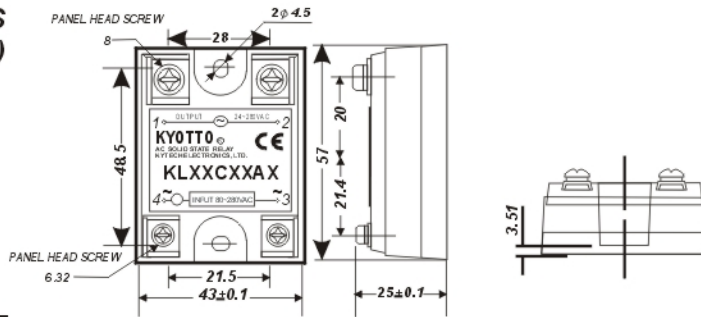


## SPECIFICATIONS

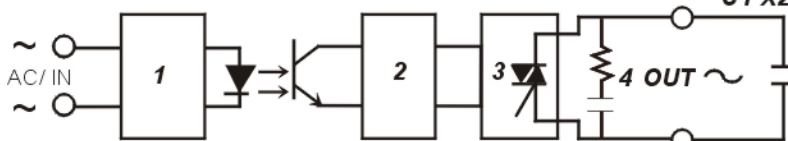
MODEL NO.	CONTROL VOLTAGE RANGE	MUST TURN OFF VOLTAGE	INPUT IMPEDANCE	MAX LOAD CURRENT	LOAD VOLTAGE RANGE	MIN BLOCKING VOLTAGE	MAX OFF-STATE LEAKAGE	FREQUENCY RANGE	MAX 1-CYCLE PEAK SURGE
KL20C10AX	80 TO 280 VAC	MAX10 VAC	1.5 Kohm	10A	24-280VAC	600 VAC	LESS 5 mA	47-70HZ	100A
KL20C15AX	80 TO 280 VAC	MAX10 VAC	1.5 Kohm	15A	24-280VAC	600 VAC	LESS 5 mA	47-70HZ	160A
KL20C25AX	80 TO 280 VAC	MAX10 VAC	1.5 Kohm	25A	24-280VAC	600 VAC	LESS 5 mA	47-70HZ	260A
KL20C40AX	80 TO 280 VAC	MAX10 VAC	1.5 Kohm	40A	24-280VAC	600 VAC	LESS 5 mA	47-70HZ	400A

MODEL NO.	MAX OFF STATE dv/dt	MAX ON-STATE VOLTAGE DROP	ISOLATE IMPEDENCE	DIELECTRIC STRENGTH INPUT-OUTPUT	DIELECTRIC STRENGTH INPUT,OUTPUT-CASE	TURN ON TIME	TURN OFF TIME	CAPACITANCE IN-OUT	WEIGHT (g)
KL20C10AX	200 V // SEC	2.0VACrms	10 <sup>9</sup> ohm	4000 VACrms	2500 VACrms	LESS 2 mSec	LESS 1/2 ACCYCLE	LESS 15 PF	92 g
KL20C15AX	200 V // SEC	2.0VACrms	10 <sup>9</sup> ohm	4000 VACrms	2500 VACrms	LESS 2 mSec	LESS 1/2 ACCYCLE	LESS 15 PF	92 g
KL20C25AX	200 V // SEC	2.0VACrms	10 <sup>9</sup> ohm	4000 VACrms	2500 VACrms	LESS 2 mSec	LESS 1/2 ACCYCLE	LESS 15 PF	95 g
KL20C40AX	200 V // SEC	2.0VACrms	10 <sup>9</sup> ohm	4000 VACrms	2500 VACrms	LESS 2 mSec	LESS 1/2 ACCYCLE	LESS 15 PF	95 g

## OUTLINE DIMENSIONS (unit:mm)



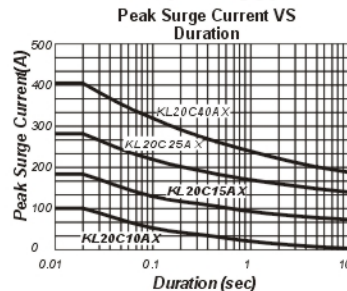
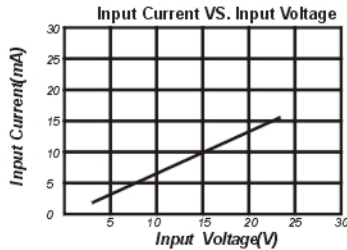
## EQUIVALENT CIRCUIT



- 1.INPUT CIRCUIT
- 2.PHOTO DETECTOR
- 3.ZERO-CROSS CIRCUIT
- 4.OUTPUT CIRCUIT
- 5.PROTECTED CIRCUIT

## CHARACTERISTIC CURVES

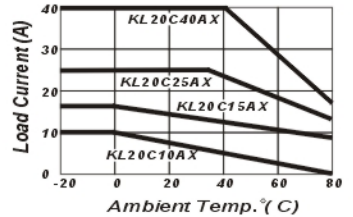
1uF~1.5uF/AC 400V



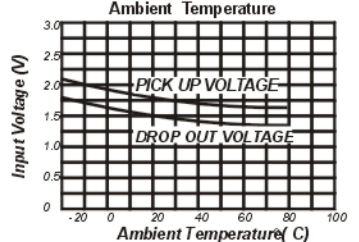
Attention:

In order to be in compliance with the EMC Directive an additional X2 capacitor at the output is required if the SSR is operated as single component. In case the SSR is incorporated in an appliance the existing EMI filter may provide the required EMI suppression. The X2 capacitor must be placed as close as possible to the output terminals. See also above.

Load Current VS. Ambient Temp.



Maximum Load Current VS. Ambient Temperature



# AC SOLID STATE RELAY

## KL20C50AX KL20C75AX KL20C100AX

### KL SERIES

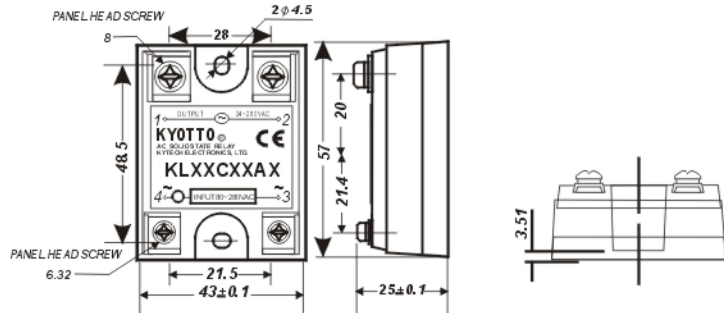


### SPECIFICATIONS

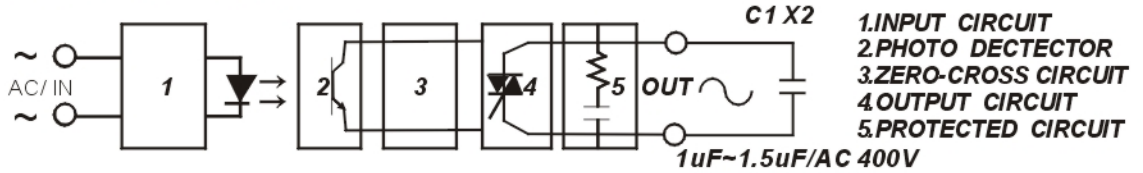
MODEL NO.	CONTROL VOLTAGE RANGE	MUST TURN OFF VOLTAGE	INPUT IMPEDANCE	MAX LOAD CURRENT	LOAD VOLTAGE RANGE	MIN BLOCKING VOLTAGE	MAX OFF-STATE LEAKAGE	FREQUENCY RANGE	MAX 1-CYCLE PEAK SURGE
KL20C50AX	80TO 280VAC	MAX 10 VAC	1.5 Kohm	50A	24-280VAC	600 VAC	LESS 7.5 mA	47-70HZ	625A
KL20C75AX	80TO 280VAC	MAX 10 VAC	1.5 Kohm	75A	24-280VAC	600 VAC	LESS 7.5 mA	47-70HZ	1000A
KL20C100AX	80TO 280VAC	MAX 10 VAC	1.5 Kohm	100A	24-280VAC	600 VAC	LESS 7.5 mA	47-70HZ	1200A

MODEL NO.	MAX OFF STATE dv/dt	MAX ON-STATE VOLTAGE DROP	ISOLATE IMPEDENCE	DIELECTRIC STRENGTH INPUT-OUTPUT	DIELECTRIC STRENGTH INPUT-OUTPUT-CASE	TURN ON TIME	TURN OFF TIME	CAPACITANCE IN-OUT	WEIGHT (g)
KL20C50AX	200 V/μs SEC	2.0VACrms	10 <sup>9</sup> ohm	4000 VACrms	2500 VAC (rms)	LESS 2 mSec	LESS 1/2 AC CYCLE	LESS 15 PF	100 g
KL20C75AX	200 V/μs SEC	2.0VACrms	10 <sup>9</sup> ohm	4000 VACrms	2500 VAC (rms)	LESS 2 mSec	LESS 1/2 AC CYCLE	LESS 15 PF	100 g
KL20C100AX	200 V/μs SEC	2.0VACrms	10 <sup>9</sup> ohm	4000 VACrms	2500 VAC (rms)	LESS 2 mSec	LESS 1/2 AC CYCLE	LESS 15 PF	100 g

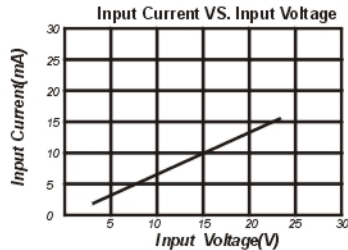
### OUTLINE DIMENSIONS (unit:mm)



### EQUIVALENT CIRCUIT



### CHARACTERISTIC CURVES



Attention:  
In order to be in compliance with the EMC Directive an additional X2 capacitor at the output is required if the SSR is operated as single component. In case the SSR is incorporated in an appliance the existing EMI filter may provide the required EMI suppression. The X2 capacitor must be placed as close as possible to the output terminals. See also above.

