

## AC SOLID STATE RELAY

**KD40C10AX**  
**KD40C15AX**  
**KD40C25AX**  
**KD40C40AX**  
**KD40C50AX**  
**KD40C75AX**  
**KD40C90AX**  
**KD40C100AX**  
**KD40C125AX**  
**KD40R125AX**

## KD SERIES

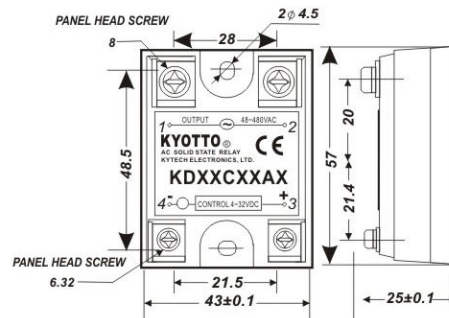


### SPECIFICATIONS

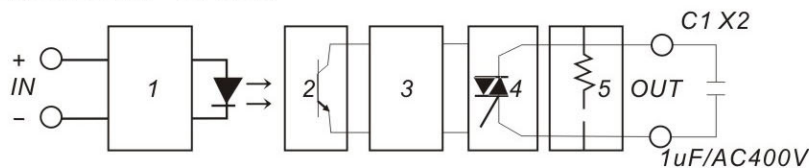
| MODEL NO.  | CONTROL VOLTAGE RANGE | MUST TURN OFF VOLTAGE | INPUT IMPEDANCE | MAX LOAD CURRENT | LOAD VOLTAGE RANGE | MIN BLOCKING VOLTAGE | MAX OFF-STATE LEAKAGE | FREQUENCY RANGE | MAX 1-CYCLE PEAK SURGE |
|------------|-----------------------|-----------------------|-----------------|------------------|--------------------|----------------------|-----------------------|-----------------|------------------------|
| KD40C10AX  | 4 TO 32 VDC           | MAX 1.0 VDC           | 1.5 Kohm        | 10A              | 48-480VAC          | 1200VAC              | LESS15mA              | 47~70HZ         | 100A                   |
| KD40C15AX  | 4 TO 32 VDC           | MAX 1.0 VDC           | 1.5 Kohm        | 15A              | 48-480VAC          | 1200VAC              | LESS15mA              | 47~70HZ         | 150A                   |
| KD40C25AX  | 4 TO 32 VDC           | MAX 1.0 VDC           | 1.5 Kohm        | 25A              | 48-480VAC          | 1200VAC              | LESS15mA              | 47~70HZ         | 250A                   |
| KD40C40AX  | 4 TO 32 VDC           | MAX 1.0 VDC           | 1.5 Kohm        | 40A              | 48-480VAC          | 1200VAC              | LESS15mA              | 47~70HZ         | 400A                   |
| KD40C50AX  | 4 TO 32 VDC           | MAX 1.0 VDC           | 1.5 Kohm        | 50A              | 48-480VAC          | 1200VAC              | LESS15mA              | 47~70HZ         | 500A                   |
| KD40C75AX  | 4 TO 32 VDC           | MAX 1.0 VDC           | 1.5 Kohm        | 75A              | 48-480VAC          | 1200VAC              | LESS15mA              | 47~70HZ         | 750A                   |
| KD40C90AX  | 4 TO 32 VDC           | MAX 1.0 VDC           | 1.5 Kohm        | 90A              | 48-480VAC          | 1200VAC              | LESS15mA              | 47~70HZ         | 900A                   |
| KD40C100AX | 4 TO 32 VDC           | MAX 1.0 VDC           | 1.5 Kohm        | 100A             | 48-480VAC          | 1200VAC              | LESS15mA              | 47~70HZ         | 1000A                  |
| KD40C125AX | 4 TO 32 VDC           | MAX 1.0 VDC           | 1.5 Kohm        | 125A             | 48-480VAC          | 1200VAC              | LESS15mA              | 47~70HZ         | 1250A                  |
| KD40R125AX | 4 TO 32 VDC           | MAX 1.0 VDC           | 1.5 Kohm        | 125A             | 48-480VAC          | 1200VAC              | LESS15mA              | 47~70HZ         | 1250A                  |

| 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) |
|------------|---------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|--------------|-------------------|--------------------|------------|
| KD40C10AX  | 200 V/ $\mu$ SEC    | 2.0VACrms                 | $10^9$ ohm        | 4000 VACrms                      | 2500 VAC (rms)                        | LESS 2 mSec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 92 g       |
| KD40C15AX  | 200 V/ $\mu$ SEC    | 2.0VACrms                 | $10^9$ ohm        | 4000 VACrms                      | 2500 VAC (rms)                        | LESS 2 mSec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 92 g       |
| KD40C25AX  | 200 V/ $\mu$ SEC    | 2.0VACrms                 | $10^9$ ohm        | 4000 VACrms                      | 2500 VAC (rms)                        | LESS 2 mSec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100g       |
| KD40C40AX  | 200 V/ $\mu$ SEC    | 2.0VACrms                 | $10^9$ ohm        | 4000 VACrms                      | 2500 VAC (rms)                        | LESS 2 mSec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100g       |
| KD40C50AX  | 200 V/ $\mu$ SEC    | 2.0VACrms                 | $10^9$ ohm        | 4000 VACrms                      | 2500 VAC (rms)                        | LESS 2 mSec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100g       |
| KD40C75AX  | 200 V/ $\mu$ SEC    | 2.0VACrms                 | $10^9$ ohm        | 4000 VACrms                      | 2500 VAC (rms)                        | LESS 2 mSec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100g       |
| KD40C90AX  | 200 V/ $\mu$ SEC    | 2.0VACrms                 | $10^9$ ohm        | 4000 VACrms                      | 2500 VAC (rms)                        | LESS 2 mSec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100g       |
| KD40C100AX | 200 V/ $\mu$ SEC    | 2.0VACrms                 | $10^9$ ohm        | 4000 VACrms                      | 2500 VAC (rms)                        | LESS 2 mSec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100g       |
| KD40C125AX | 1000 V/ $\mu$ SEC   | 2.0VACrms                 | $10^9$ ohm        | 4000 VACrms                      | 2500 VAC (rms)                        | LESS 2 mSec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 110g       |
| KD40R125AX | 1000 V/ $\mu$ SEC   | 2.0VACrms                 | $10^9$ ohm        | 4000 VACrms                      | 2500 VAC (rms)                        | LESS 2 mSec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 110g       |

### OUTLINE DIMENSIONS (unit:mm)



### EQUIVALENT CIRCUIT



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