

| OTX15F1-220V                                                                     |  | Current type relay                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | <b>Features</b> <ul style="list-style-type: none"> <li>● AC drive</li> <li>● 30A,40A,50A,60A</li> <li>● AC drive 220VAC</li> <li>● Magnetic arc blowing technology</li> <li>● Outline Dimensions: (32.5 x27.5 x 20)mm</li> </ul> |

CONTACT DATA :

|                                   |                                                              |
|-----------------------------------|--------------------------------------------------------------|
| Contact arrangement               | 1A,                                                          |
| Contact resistance <sup>(1)</sup> | ≤50mΩ(24VDC , 100mA)                                         |
| Contact material                  | AgSnO2                                                       |
| Contact rating                    | 30A/240VAC/28VDC                                             |
| Contact current rating            | 30A                                                          |
| Maximum breaking ability          | 240VAC/28VDC                                                 |
| Minimum applicable load           | 5VDC 100mA                                                   |
| Mechanical endurance              | 1x10 <sup>7ops</sup> (No load, 300 beats per minute)         |
| Electrical endurance              | 1x 10 <sup>5 ops</sup> (Resistive load, 15 beats per minute) |

Notes:(1) The data shown above are initial values.

CHARACTERISTICS at 23℃

|                                  |                         |                                                                                                                                    |
|----------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Insulation resistance            |                         | ≤50mΩ(24VDC , 100mA)                                                                                                               |
| Insulation Resistance            | Between coil & contacts | 100mΩ                                                                                                                              |
|                                  | Between open contacts   | 100mΩ                                                                                                                              |
| Dielectric strength              | Between coil & contacts | 2000VAC1min                                                                                                                        |
|                                  | Between open contacts   | 1800VAC1min                                                                                                                        |
| pull-in voltage                  |                         | 80%×nominal voltage                                                                                                                |
| release voltage                  |                         | 20%×nominal voltage                                                                                                                |
| Operate time (at rated. volt.)   |                         | ≤25ms                                                                                                                              |
| Release time (at rated. volt.)   |                         | ≤10ms                                                                                                                              |
| Impact                           | Malfunction             | Impact three times in three directions, contact misaction should not exceed 1ms<br>(Maximum acceleration 100m/s<br>2 Duration 11ms |
|                                  | Impact resistance       | Impact three times in three directions, no structural failure<br>(maximum acceleration 1000m/s)<br>2 Duration 6ms)                 |
| Resistance to impact the voltage |                         | 1.5KV                                                                                                                              |
| Vibration resistance             |                         | 10-55Hz, 1.5mm                                                                                                                     |
| Humidity                         |                         | 20%~85%                                                                                                                            |
| weldability                      |                         | 235℃±5℃ 2±0.5s                                                                                                                     |

| COIL DATA            | at 23℃            |
|----------------------|-------------------|
| Limit coil power     | AC:2VA            |
| Rated voltage VAC    | 220V              |
| Maximum voltage VAC  | 242V <sub>2</sub> |
| coil resistanceΩ±10% | 13490Ω            |

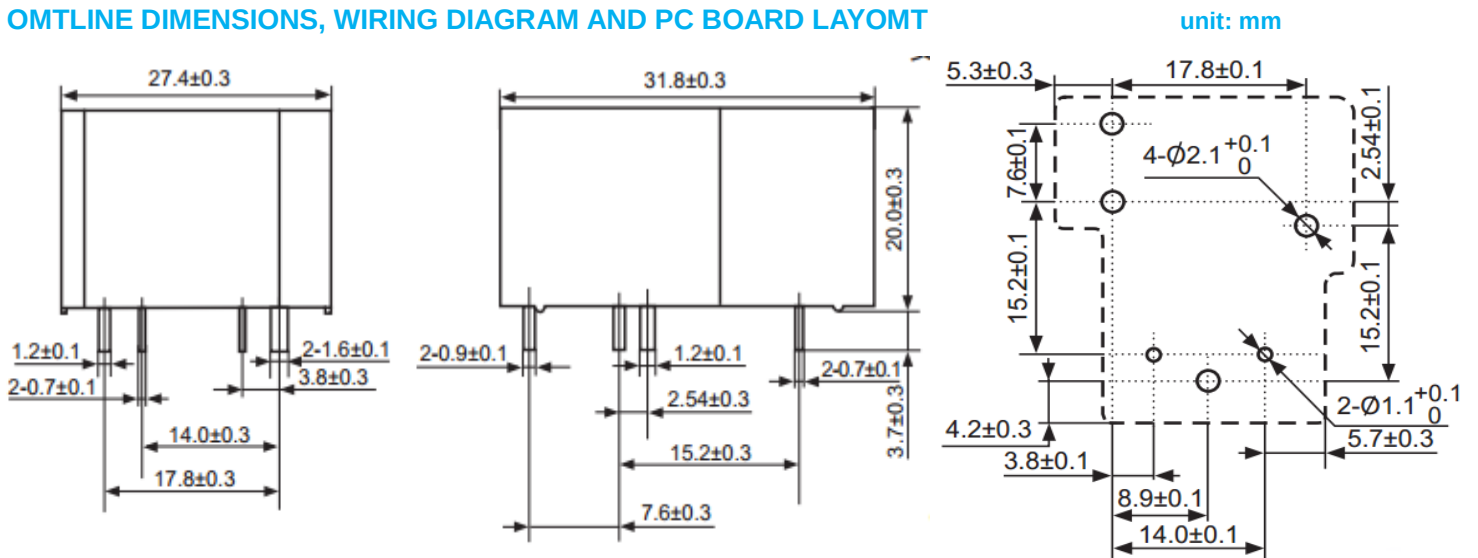
ORDERING INFORMATION

|                        |                                     |      |       |     |    |   |   |
|------------------------|-------------------------------------|------|-------|-----|----|---|---|
|                        | OTX15F1                             | -30A | -220V | -1A | -S | - | - |
| Type                   |                                     |      |       |     |    |   |   |
| 30A                    | 30A,40A,50A,60A                     |      |       |     |    |   |   |
| Coil voltage           | 220V                                |      |       |     |    |   |   |
| Contact arrangement    | 1A:1FormA                           |      |       |     |    |   |   |
| Construction           | S: Plastic sealed Nil: Flux proofed |      |       |     |    |   |   |
| Terminal Configuration | Nil: PCB welding                    |      |       |     |    |   |   |

Notes: (1) We recommend flux proofed types for a clean environment (free from contaminations like H<sub>2</sub>S、SO<sub>2</sub>、SO<sub>2</sub>, dust, etc.). We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H<sub>2</sub>S、SO<sub>2</sub>、SO<sub>2</sub>, dust, etc).

(2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB. ;

OMTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOMT



Notes: (1)In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

( 2 ) The tolerance without indicating for PCB layout and pin size is always ±0.1mm.

(3)This product specification is for reference only, subject to change without prior notice

This specification is for reference only, the actual use is subject to the sample, all relays meet ROHS requirements, if there is any change will not be notified.

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