

KTY1S

Multi-function Single-phase Power Controller



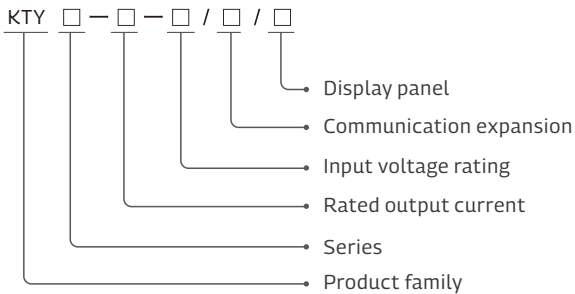
Features

- Fully digital control
- Integration of open-loop, constant voltage, constant current, constant power, power regulation (over zero) control, LZ phase shift over zero control, on-line power distribution and other functions in one package
- RMS control option to realize RMS control
- Input and output interfaces adopt isolation technology with strong anti-jamming capability
- Standard configuration RS485 communication interface, support Modbus RTU communication can expand Profibus-DP, Profinet, Modbus TCP communication

Usages

- The KTY1S Series is widely used in industrial electric furnace, mechanical equipment, glass industry, automotive industry, chemical industry and other industry fields.

Definitions



For example:

KTY1S-100-4/NN/S: Standard KTY1S power controller for single-phase 100A, 380V supply without extension.

KTY1S-1K0-4/PN/W: Single-phase 1000A, 380V power supply, extended PROFINET communication card, body without display.

| Model NO. | Rated current(A) | Dimension(mm) U≤500V | Weight (kg) | Cooling method |
|-----------|------------------|-------------------------|-------------|----------------|
| KTY1S-25 | 25 | 270x137x148 | 4.0 | Self-cooling |
| KTY1S-40 | 40 | | | |
| KTY1S-75 | 75 | 280x137x205 | 6.5 | Air-cooling |
| KTY1S-100 | 100 | | | |
| KTY1S-150 | 150 | | | |
| KTY1S-200 | 200 | 350x134x246 | 9.0 | |
| KTY1S-250 | 250 | | | |
| KTY1S-300 | 300 | | | |
| KTY1S-350 | 350 | | 9.5 | |
| KTY1S-450 | 450 | | | |
| KTY1S-600 | 600 | 570x200x266 | 17.5 | |
| KTY1S-800 | 800 | 670x260x323 | | |
| KTY1S-1K0 | 1000 | | | |
| KTY1S-1K5 | 1500 | 750x270x350 | 37 | |
| KTY1S-2K0 | 2000 | 900x300x380 | 58 | |

For larger current levels, please contact the manufacturer.

Specifications

| Input | |
|--------------------|--|
| Main circuit power | KTY1S-****-4: AC100-400V,45-65Hz KTY1S-****-5: AC400-500V,45-65Hz KTY1S-****-7: AC500-690V,45-65Hz |
| Control power | AC100~400V,0.5A,50~60Hz |
| Fan Power | AC220V,50/60Hz |
| Output | |
| Output voltage | 0%-98% of main voltage (phase shifted) |
| Rated current | See model definition |
| Control method | Open loop, constant voltage, constant current, constant power, power regulation (over zero), LZ control |
| Control signal | Analog, digital, communication |
| Load type | Resistive load, inductive load |

| Performance indications | |
|-------------------------|---|
| Control accuracy | 0.5% |
| Stability | 0.2% |
| Interface description | |
| AI | 4 programmable inputs |
| DI | 1 fixed input, 2 programmable inputs |
| AO | 2 programmable outputs |
| DO | 2 programmable outputs |
| Communication | NN: Standard RS485 (with motherboard) DP: Extended communication card (PROFIBUS) PN: Extended communication card (PROFINET) MT: Extended communication card (MODBUS TCP) |
| Display panel | S: with IDP01 display panel, W: without panel, closed by sealing plate. |

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