



Power Thyristors

Applications for power thyristors can more and more be found where ohmic and inductive loads must be controlled (e.g. in industrial furnaces, plastics processing etc.). By means of the modular and compact construction and control with a continuous control signal power thyristors become the perfect actuators for industrial power control.

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|-----|-----------------|--------|
| TS1 | Power Thyristor | P. 210 |
| TS2 | Power Thyristor | P. 211 |

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|-----|-----------------|--------|
| TS3 | Power Thyristor | P. 212 |
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» TS1 – Power Thyristor



Application

Power thyristors are used as actuators for industrial power controls (e.g. fans, pumps, lamps, heating registers, industrial furnaces). By means of their solid and compact construction, a wearless control with high efficiency is guaranteed.

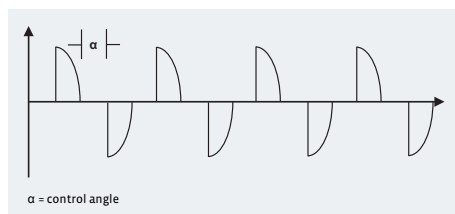
TYPES AVAILABLE

| Type | Model | Control |
|------------|-------------------|---------------------|
| TS1 1ph | single-phase 230V | Phase angle control |
| TS1 SP 1ph | single-phase 230V | Oscillation package |
| TS1 3ph | three-phase 400V | Phase angle control |
| TS1 SP 3ph | three-phase 400V | Oscillation package |

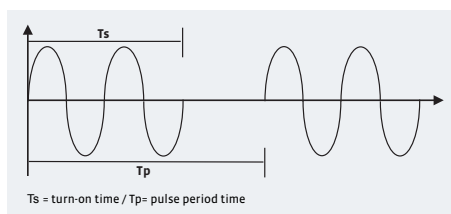
TECHNICAL DATA

| | |
|---------------------|----------------------------------|
| Mains voltage | TS1 1ph: 230V~ TS1 3ph: 400V~ |
| Supply voltage | Internal generation |
| Inputs | 0-10V or potentiometer 10kOhm |
| Enclosure | ABS |
| Dimensions | 100 x 70 x 100mm |
| Ambient temperature | 0...45°C |
| Protection | IP40 |
| Mounting | Snap mounting on DIN-rail |
| Notice | Other output currents on request |

Phase Angle Control (for ohmic inductive load)



Oscillation Package (for ohmic load)



SINGLE-PHASE, 230V

| TS1 | PG1 | | |
|----------------|------|----------|----------|
| Type | kW | Art. No. | € |
| TS1 1ph 2A | 0,46 | 229678 | 147,73 € |
| TS1 SP 1ph 2A | 0,46 | 283137 | 147,73 € |
| TS1 1ph 4A | 0,92 | 226639 | 172,35 € |
| TS1 SP 1ph 4A | 0,92 | 226622 | 172,35 € |
| TS1 1ph 6A | 1,38 | 224000 | 200,49 € |
| TS1 SP 1ph 6A | 1,38 | 238885 | 200,49 € |
| TS1 1ph 8A | 1,84 | 236980 | 221,58 € |
| TS1 SP 1ph 8A | 1,84 | 255189 | 221,58 € |
| TS1 1ph 10A | 2,30 | 223874 | 239,17 € |
| TS1 SP 1ph 10A | 2,30 | 266109 | 239,17 € |

THREE-PHASE, 400V

| TS1 | PG1 | | |
|----------------|------|----------|----------|
| Type | kW | Art. No. | € |
| TS1 3ph 2A | 1,39 | 230148 | 168,82 € |
| TS1 SP 3ph 2A | 1,39 | 273558 | 168,82 € |
| TS1 3ph 4A | 2,77 | 246514 | 186,41 € |
| TS1 SP 3ph 4A | 2,77 | 268226 | 186,41 € |
| TS1 3ph 6A | 4,15 | 224260 | 207,51 € |
| TS1 SP 3ph 6A | 4,15 | 275910 | 207,51 € |
| TS1 3ph 8A | 5,54 | 233736 | 228,62 € |
| TS1 SP 3ph 8A | 5,54 | 275927 | 228,62 € |
| TS1 3ph 10A | 6,93 | 224314 | 253,24 € |
| TS1 SP 3ph 10A | 6,93 | 241182 | 253,24 € |

Application

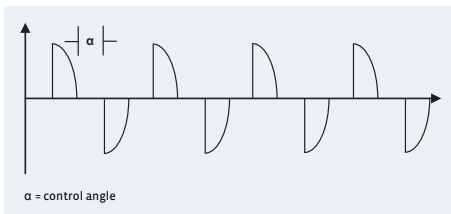
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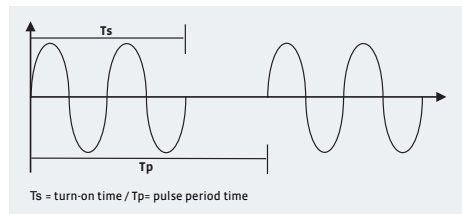
| TYPES AVAILABLE | | |
|-----------------|-------------------|---------------------|
| Type | Model | Control |
| TS2 1ph | single-phase 230V | Phase angle control |
| TS2 SP 1ph | single-phase 230V | Oscillation package |
| TS2 3ph | three-phase 400V | Phase angle control |
| TS2 SP 3ph | three-phase 400V | Oscillation package |

| TECHNICAL DATA | |
|---------------------|--|
| Mains voltage | TS2 1ph: 230V~ TS2 3ph: 400V~ |
| Supply voltage | Internal generation |
| Inputs | 0-10V or potentiometer 10kOhm |
| Fault indication | Phase failure, heat sink temperature, low voltage, power thyristor failure |
| Enclosure | Aluminium with plexiglass cover |
| Dimensions | Depending on type |
| Ambient temperature | 0...45°C |
| Protection class | IP20 |
| Mounting | Screw assembly |
| Notice | Other output currents |

Phase Angle Control (for ohmic inductive load)



Oscillation Package (for ohmic load)



SINGLE-PHASE, 230V

| TS2 | | | PG1 |
|-----------------|-------|----------|------------|
| Type | kW | Art. No. | € |
| TS2 1ph 75A | 17,25 | 223867 | 1.167,66 € |
| TS2 SP 1ph 75A | 17,25 | 361453 | 1.167,66 € |
| TS2 1ph 90A | 20,70 | 361484 | 1.414,94 € |
| TS2 SP 1ph 90A | 20,70 | 361460 | 1.414,94 € |
| TS2 1ph 120A | 27,60 | 361491 | 1.706,85 € |
| TS2 SP 1ph 120A | 27,60 | 361477 | 1.706,85 € |

THREE-PHASE, 400V

| TS2 | | | PG1 |
|-----------------|-------|----------|------------|
| Type | kW | Art. No. | € |
| TS2 3ph 75A | 51,91 | 236522 | 1.356,55 € |
| TS2 SP 3ph 75A | 51,91 | 339094 | 1.356,55 € |
| TS2 3ph 90A | 62,28 | 260190 | 1.596,95 € |
| TS2 SP 3ph 90A | 62,28 | 326926 | 1.596,95 € |
| TS2 3ph 120A | 83,04 | 304719 | 1.827,06 € |
| TS2 SP 3ph 120A | 83,04 | 336482 | 1.827,06 € |

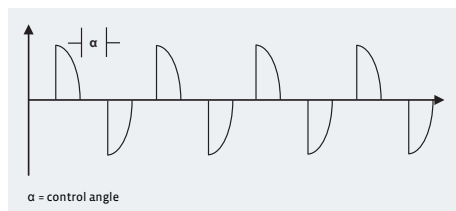
» TS3 – Power Thyristor



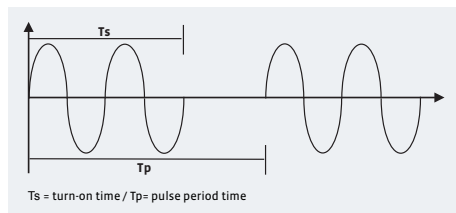
Application

Power thyristors are used as actuators for industrial power controls (e.g. fans, pumps, lamps, heating registers, industrial furnaces). By means of their solid and compact construction, a wearless control with high efficiency is guaranteed.

Phase Angle Control (for ohmic-inductive loads)



Oscillation Package (for ohmic load)



| TYPES AVAILABLE | | |
|-----------------|-------------------|---------------------|
| Type | Model | Control |
| TS3 1ph | single-phase 230V | Phase angle control |
| TS3 SP 1ph | single-phase 230V | Oscillation package |
| TS3 3ph | three-phase 400V | Phase angle control |
| TS3 SP 3ph | three-phase 400V | Oscillation package |

| TECHNICAL DATA | |
|---------------------|---|
| Mains voltage | TS3 1ph: 230V~ TS3 3ph: 400V~ |
| Supply voltage | Internal generation |
| Inputs | 0-10V respect. potentiometer 10kOhm |
| Input impedance | Switchable: 500Ohm, 50kOhm |
| Enclosure | Aluminium |
| Dimensions | 1ph: 82x125x 90mm 3ph: 130x200x135mm |
| Ambient temperature | 0...45°C |
| Protection | IP40 |
| Mounting | TS3 1ph: Snap mounting on DIN-rail TS3 3ph: Screw assembly |
| Notice | Other output currents on request |

SINGLE-PHASE, 230V

| TS3 | | | PG1 |
|----------------|-------|----------|----------|
| Type | kW | Art. No. | € |
| TS3 1ph 15A | 3,45 | 237161 | 285,04 € |
| TS3 SP 1ph 15A | 3,45 | 245500 | 285,04 € |
| TS3 1ph 25A | 5,75 | 241649 | 405,25 € |
| TS3 SP 1ph 25A | 5,75 | 231091 | 405,25 € |
| TS3 1ph 35A | 8,05 | 238489 | 429,29 € |
| TS3 SP 1ph 35A | 8,05 | 270977 | 429,29 € |
| TS3 1ph 50A | 11,50 | 361200 | 497,98 € |
| TS3 SP 1ph 50A | 11,50 | 344333 | 497,98 € |

THREE-PHASE 400V

| TS3 | | | PG1 |
|----------------|-------|----------|----------|
| Type | kW | Art. No. | € |
| TS3 3ph 15A | 10,38 | 224796 | 556,36 € |
| TS3 SP 3ph 15A | 10,38 | 225236 | 556,36 € |
| TS3 3ph 25A | 17,30 | 225649 | 635,34 € |
| TS3 SP 3ph 25A | 17,30 | 240970 | 635,34 € |
| TS3 3ph 35A | 24,22 | 225656 | 741,81 € |
| TS3 SP 3ph 35A | 24,22 | 241014 | 741,81 € |
| TS3 3ph 50A | 34,60 | 256353 | 827,66 € |
| TS3 SP 3ph 50A | 34,60 | 223836 | 827,66 € |