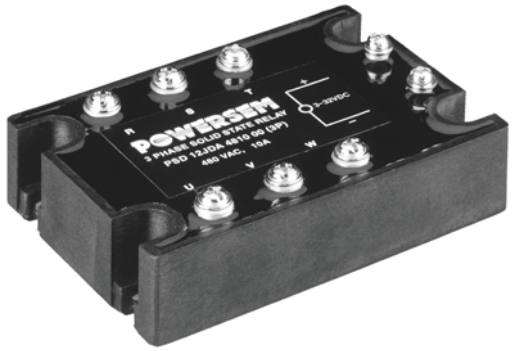
# *Three Phase Solid State Relays*

***HIGHLIGHTS*** ***Series: 12 SJ/K***

- INPUT: AC CONTROL
- OUTPUT: DIRECT COPPER BONDED BACK-TO-BACK SCR
- OPTO ISOLATION 2500 VAC (4000 V optional)
- VOLTAGE RANGE 100 TO 660 VAC
- LOAD CURRENT 3x25A / 50A / 75A / 90A
- HIGH DV/DT
- Weight = 344 g

(J: Zero voltage turn-on; K: Random turn-on)




## ELECTRICAL SPECIFICATIONS

| Parameter | Symbol | Type | | | | Unit |
|---|---|---|---|---|---|---|
| | | PSD 12 A 122528 | PSD 12 A 125028 | PSD 12 A 127528 | PSD 12 A 129028 | |
| ***AC CONTROL*** | | | | | | |
| Control voltage range | | 90-280 | 90-280 | 90-280 | 90-280 | Vac |
| Control current range | | 8-80 | 8-80 | 8-80 | 8-80 | mA |
| Pick-up voltage | | 90 | 90 | 90 | 90 | Vac |
| Drop-out voltage | | 10 | 10 | 10 | 10 | Vac |
| Input resistance | | Current regulator | | | | |
| ***OUTPUT*** | | | | | | |
| Mains control voltage | $V_{RMS}$ | 100-660 | 100-660 | 100-660 | 100-660 | Vac |
| Repetitive peak off state voltage | $V_{DRM}$ | 800-1600 | 800-1600 | 800-1600 | 800-1600 | Vpk |
| RMS on-state current | $I_T$ | 25 | 50 | 75 | 90 | A |
| Zero turn-on voltage | | 35 | 35 | 35 | 35 | Vac |
| On-state voltage drop | $V_{TM}$ | 1.6 | 2.0 | 2.0 | 2.0 | Vac |
| Off-state leakage current @ rated voltage | $I_{DRM}$ | 1 | 1 | 1 | 1 | mA |
| Peak one cycle surge current (non-rep) | $I_{TSM}$ | 400 | 500 | 1150 | 1150 | A |
| Holding current | $I_H$ | 250 | 250 | 250 | 250 | mA |
| Critical rate of rise of off-state voltage | dv/dt | 1000 | 1000 | 1000 | 1000 | V/µs |
| Thermal resistance (junction to case) | $R_{thjc}$ | 1.38 | 0.7 | 0.6 | 0.56 | K/W |
| Frequency range | f | 47-63 | 47-63 | 47-63 | 47-63 | Hz |
| Operating temperature | $T_O$ | -30 to +80 | -30 to +80 | -30 to +80 | -30 to +80 | °C |
| Turn-on time | T-on | 40 | 40 | 40 | 40 | ms |
| Turn-off time | T-off | 80 | 80 | 80 | 80 | ms |
| Fusing current | $I^2t$ | 600 | 1250 | 5000 | 5000 | $A^2s$ |

**released, E 197669**

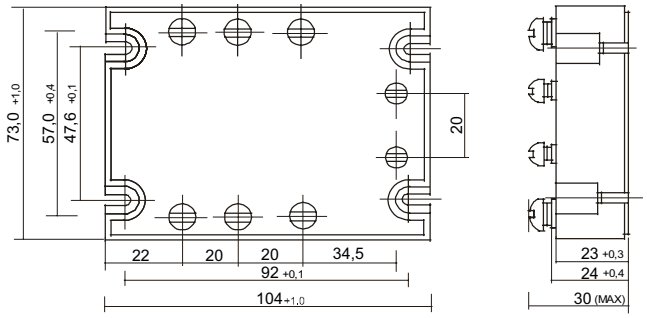

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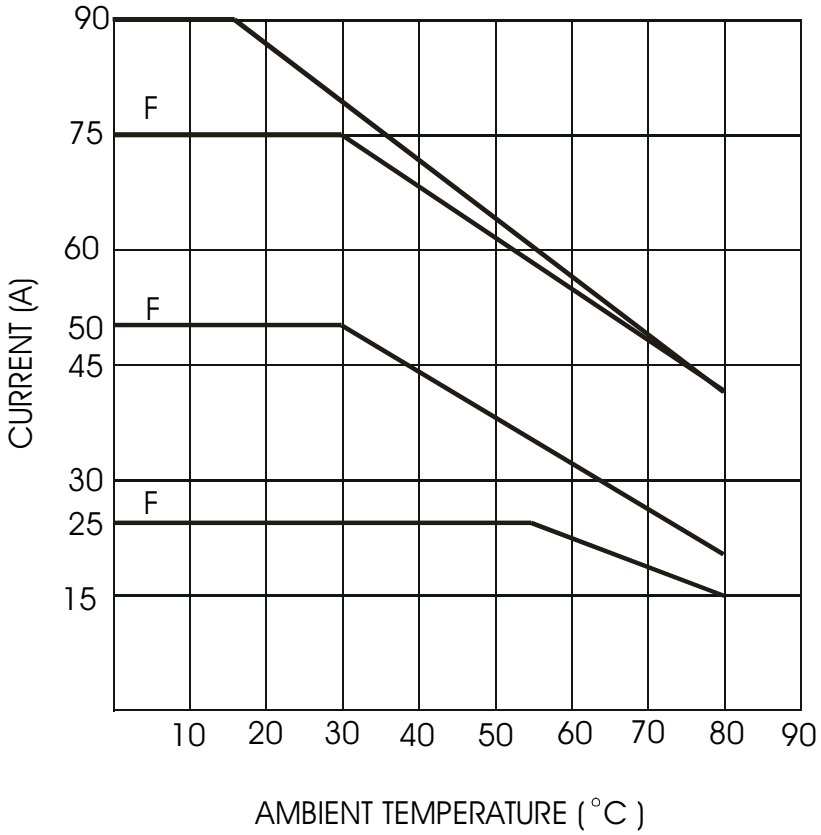
# *Three Phase Solid State Relays*

## MECHANICAL SPECIFICATIONS

Dimensions in mm

Three Phase Solid State Relay




HEAT SINK USED: 0,14 K/W

FAN USED: 70 CFM

VALIED FOR SERIES: PSD 12 SJK



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