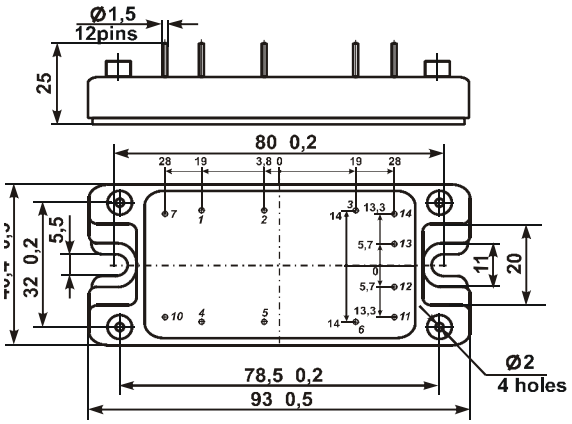
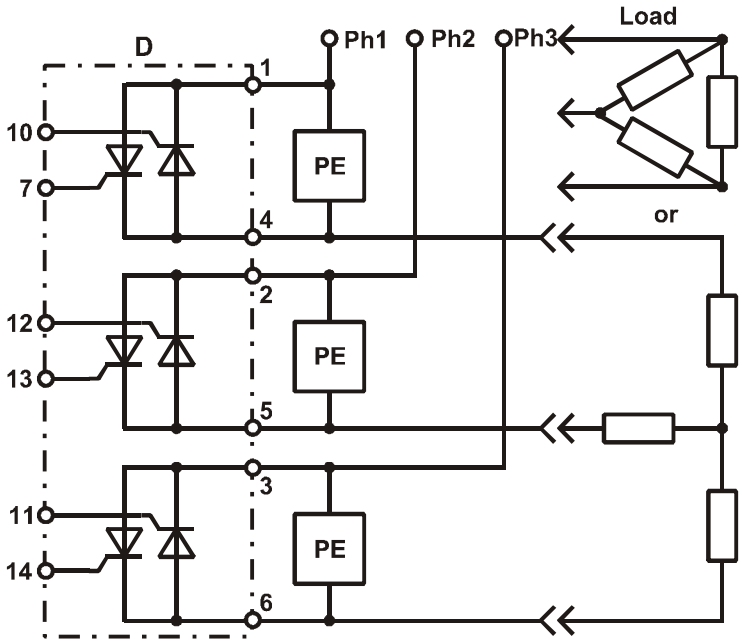
# THYRISTOR-THYRISTOR MODULE M26-80-16-M2

## DATASHEET IN BRIEF

A thyristor module consisting of three pairs of back-to-back thyristors with separate control (hereinafter – module) is intended for switching of power AC loads.

### OVERALL DRAWING AND INTERNAL CONNECTION CIRCUIT




D – модуль
PE – protective element (delivered separately)
Ph1, Ph2, Ph3 – phases of switched voltage

### BASIC PARAMETERS

T amb = 25$^0$C

| Parameter | Symbol | Unit | Value | | Note |
|---|---|---|---|---|---|
| | | | min | max | |
| Pulse voltage in on-state | $U_{TM}$ | V | | 1.65 | $I_{T(AV)}$ amplitude value |
| Repetitive pulse current in off-state | $I_{DRM}$ | mA | | 1.0 | $U_{DRM}$ = 1600 V |
| Repetitive pulse reverse thyristor current | $I_{RRM}$ | mA | | 1.0 | $U_{RRM}$ = 1600 V |
| Trigger direct control voltage | $U_{GT}$ | V | | 3.0 | |
| Trigger control DC | $I_{GT}$ | mA | | 150 | |
| DC electric insulation strength between radiator and power outputs | $U_{ISOL}$ | V | 4000 | | during 1 minute |
| Nontrigger direct control voltage | $U_{GD}$ | V | | 0.25 | $T_j$ = 125 °C |
| Thermal junction-cooler resistance | Rth(j-c) | °C/W | | 0.45 | |

**MAXIMUM PERMISSIBLE ALLOWABLE MODES**

| Parameter | Symbol | Unit | Value | | | Note |
|---|---|---|---|---|---|---|
| | | | min | average | max | |
| Repetitive pulse thyristor voltage: reverse / in off-state | $U_{RRM}$ / $U_{DRM}$ | V | | | ±1600 | |
| Average current in on-state with cooler | $I_{T(AV)}$ | A | | | 80 | Ta=75 °C |
| Surge current in on-state | $I_{TSM}$ | A | | | 960 | t = 10 ms |
| Extreme rise rate of voltage in off-state | $(du_d / dt)cr$ | V/µs | | | 1000 | |
| Extreme rise rate of current in on-state | $(di_T / dt)$ cr | A/µs | | | 150 | |
| *Junction temperature | $T_{VJ}$ | °C | -40 | | +125 | |
| * the modules are designed for operating in the equipment with using of coolers that support transition temperature in the prescribed ranges | | | | | | |

Precious metals are not contained.

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