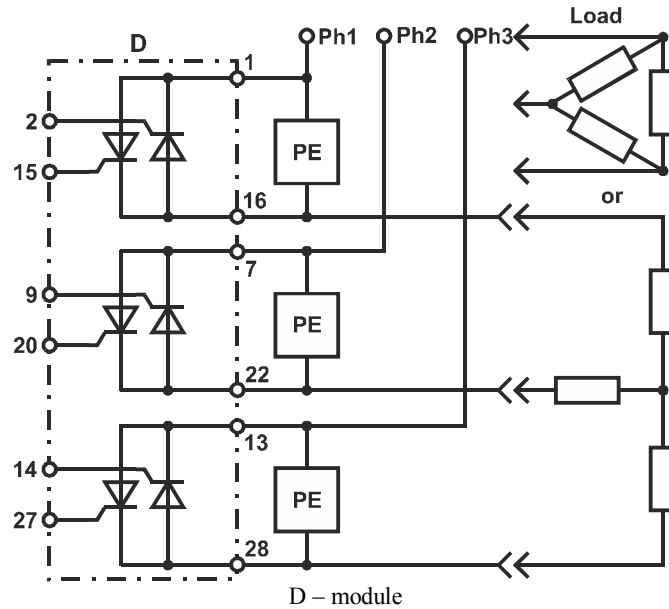
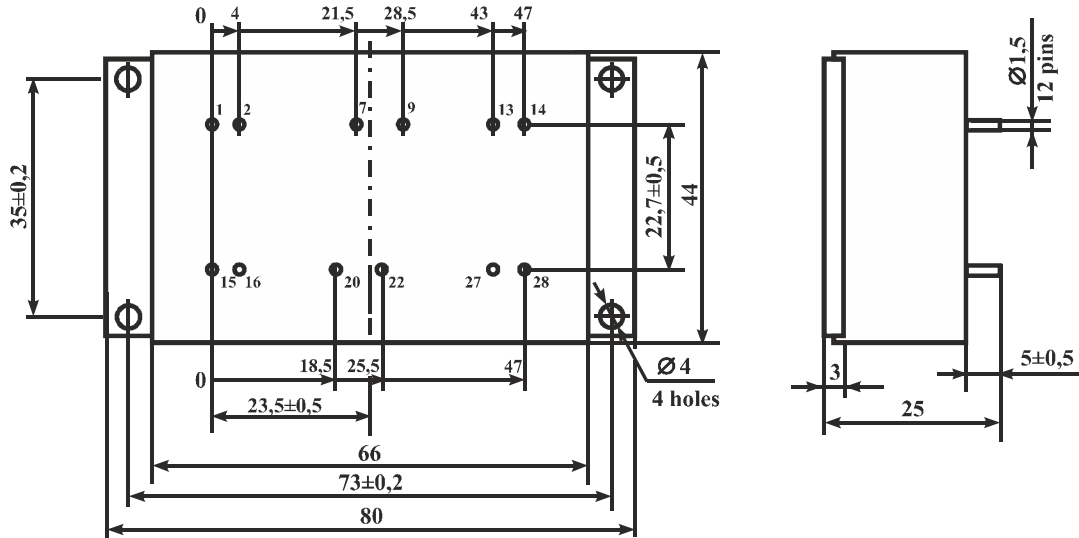


**THYRISTOR-THYRISTOR MODULE M26-40-16-M  
 DATASHEET IN BRIEF**

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. It is an analogue of the power module SK45UT16 «Semikron» in housing of kind semitop3.

**OVERALL DRAWING AND INTERNAL CONNECTION CIRCUIT**


ЭЗ – элемент защиты (поставляется отдельно)  
 Ph1, Ph2, Ph3 – phases of switched voltage

**BASIC PARAMETERS**
 $T_{amb} = 25^{\circ}\text{C}$ 

Parameter	Symbol	Unit	Value		Notes
			min	max	
Pulse voltage in on-state	$U_{TM}$	V		1.65	$I_{OUT} = 125\text{ A}$
Repetitive pulse current in off-state	$I_{DRM}$	mA		1.0	$U_{OUT} = 1600\text{ V}$
Repetitive pulse reverse thyristor current	$I_{RRM}$	mA		1.0	$U_{OUT} = 1600\text{ V}$
Trigger direct control voltage	$U_{GT}$	V		3.0	
Trigger direct control current	$I_{GT}$	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		$T_i = 125^{\circ}\text{C}$
Thermal junction-cooler resistance	$R_{th(j-c)}$	$^{\circ}\text{C/W}$		0.7	

**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			40	Ta=75 °C
* Minimum value of switching voltage	$U_{com}$	V		50		
Surge current in on-state	$I_{TSM}$	A			560	t = 10 ms
Critical rate of voltage rise in off-state	$(du_d / dt)_{cr}$	W/μs	1000			
Critical rate of current rise in on-state	$(di_T / dt)_{cr}$	A/μs	150			
** Junction temperature	$T_{VJ}$	°C	-40		+125	
* at inverse-parallel connecting in AC circuits						
** 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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