AC/DC power supplies

MAA Family **MAA1500-SG(SD), 1500 W**

Features

Input voltage.....~220 (187...264)V
.....~3x380V (323...437) V
.....~3x220V (187...253) V
Output voltage.....=24 V;=28 V;=48 V
Efficiency.....no less than 80%
Case operating temperature.....-40...+85°C; -50...+85°C
Demensions.....250x140x41 mm
Warently..... 2 years

Adventage

- Parallel and series connection
- Output voltage regulation
- Conductive cooling
- Output voltage diagnostics

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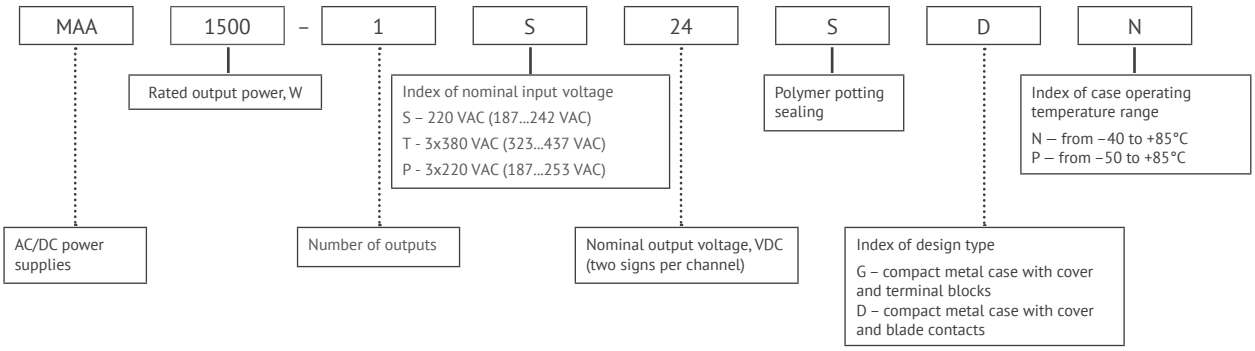
Document version current as of 11.01.24

Ordering information



Output specifications*

Parameter	Value		
Nominal output voltage, VDC	24	28	48
Output voltage adjustment	±10 %		
Efficiency,%	no less than 80		
Rated output current, A	62.5	55,55	31.25
Ripple and noise (peak-to-peak)	<2% Uout nom		
Line and load regulation	no more than 2%		
Start-up time, ms	<2000		
Parallel operation	redundancy, and boost of power		
Remote on/off	Off at 3.5...4.5 VAC (15...30 mA) output «REMOTE OFF»		

Input specifications*

Parameter		Value
Input voltage range, VAC	S	~187...242 (=263...340)
	T	~323...437
	P	~187...253
Transient deviation range, VAC	S	~176...264
	T	~304...456
	P	~176...264
Transient time	S, T, P	1 s.
Mains frequency range, Hz	P	360...440
	S,T	47...440
Power factor corrector	C, T, P	+
Inrush current	S	7,3
	T	4,1
	P	7,0

* All specifications are valid for normal climatic conditions, Uin. nom., Iout. nom., unless otherwise noted.

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Protections

Type of protection	
Short-circuit protection*	auto recovery
Overcurrent protection	Pmax<1.8 Pnom
Overload protection level*	<125% Uout nom.
Overheat protection	triggers at case temperature > 85°C

Basic specifications**

Parameter		Value
Type of connection		screw terminals and blade contacts
Protection level		IP20
Case temperature, operating	«N»	–40...+85°C
	«P»	–50...+85°C
Case temperature, storage		–50...+70°C
Humidity		98% / 35°C
Isolation voltage	in /case	~1500 VAC
	in /out	~1500 VAC
	out /case, out/out	~500 VAC
Isolation resistance @ 500 VDC		⩾ 20 MOhm min
Cooling		conductive
EMC standards		EN55022 (CISPR22)
Typical MTBF		75000 hrs***
Case material		metal
Dimensions, mm		250x140x41
Weight, kg		< 2.4
Warranty		2 year

* For output voltage C (wide mains) the maximum output power is taken at input voltage 100...176 V according to the graph of power reduction depending on the input voltage
** All specifications are valid for normal climatic conditions, Uin. nom., Iout. nom., unless otherwise noted.
*** When Uout.=Uout.nom., Pin=0.5*Pmax, Tcase⩽0.5*Tcase.max.

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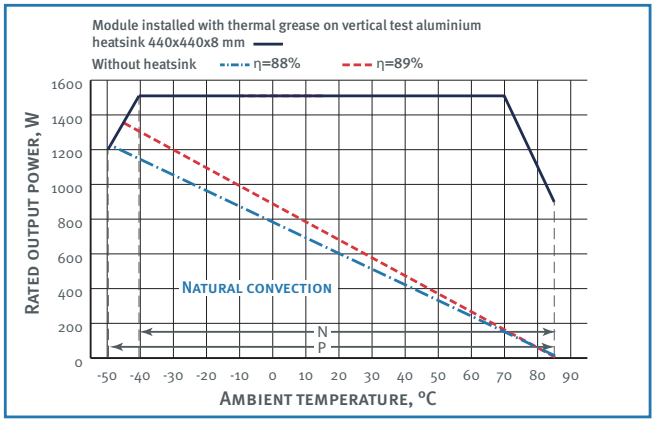
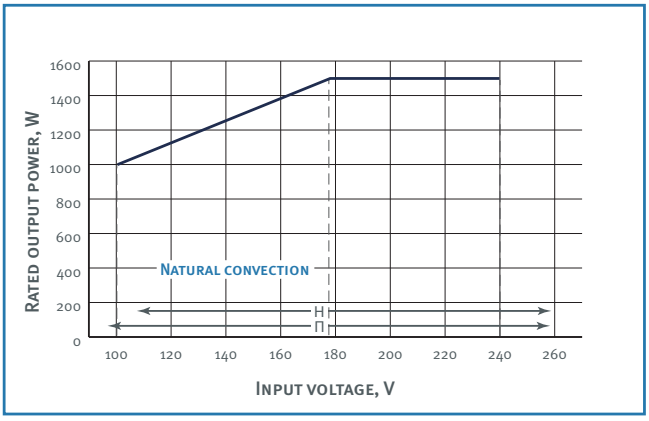
Derating

vs Temperature



vs Input Voltage



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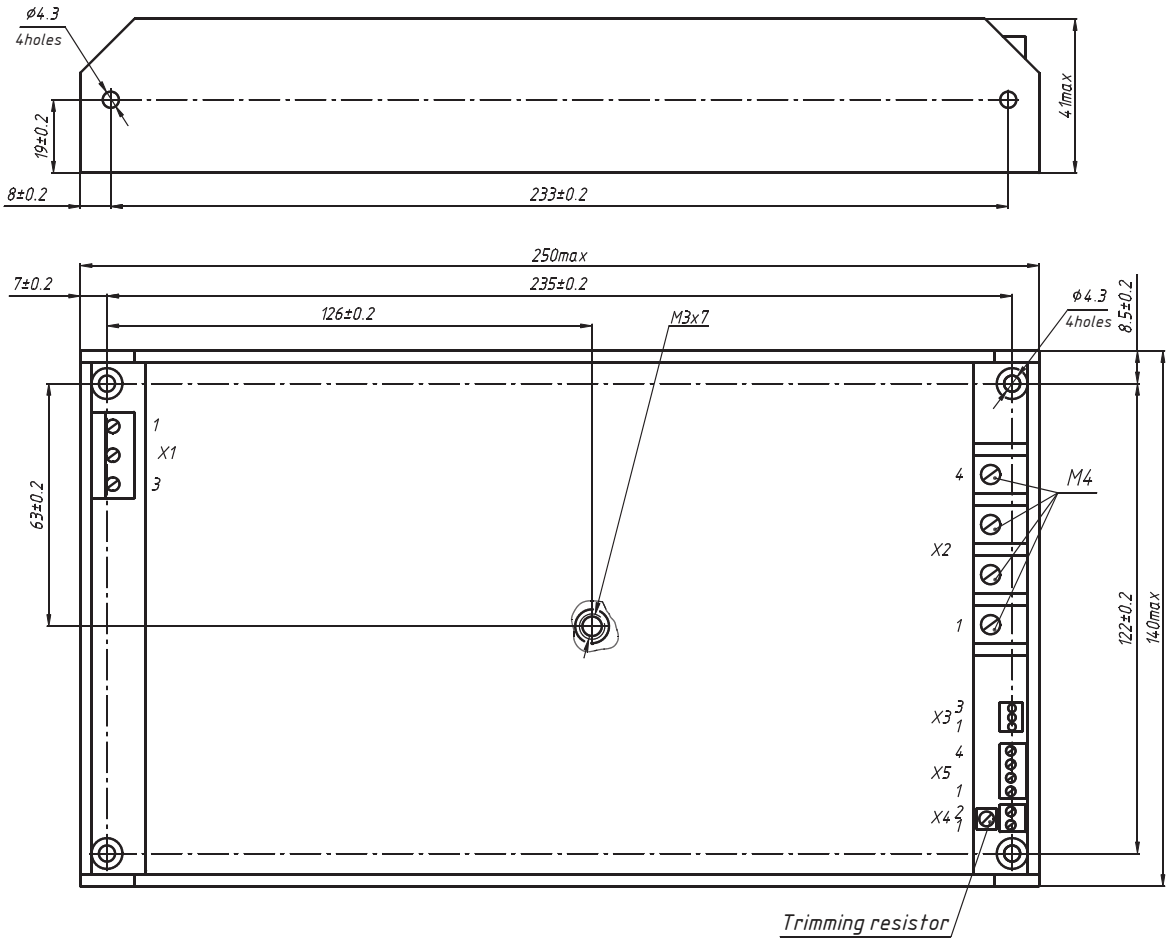
Dimensions

Single-channel design with terminal blocks



PIN #	X1.1	X1.2	X1.3	X2.1	X2.2	X2.3	X2.4	X3.1
SINGLE-CHANNEL	L	N	⏚	+ OUT 1	+ OUT 1	−OUT 1	−OUT 1	+U FAN

PIN #	X3.2	X3.3	X4.1	X4.2	X5.1	X5.2	X5.3	X5.4
SINGLE-CHANNEL	-U FAN	NOT USE	-REMOTE OFF	+REMOTE OFF	+RS	-RS	PARAL	NOT USE

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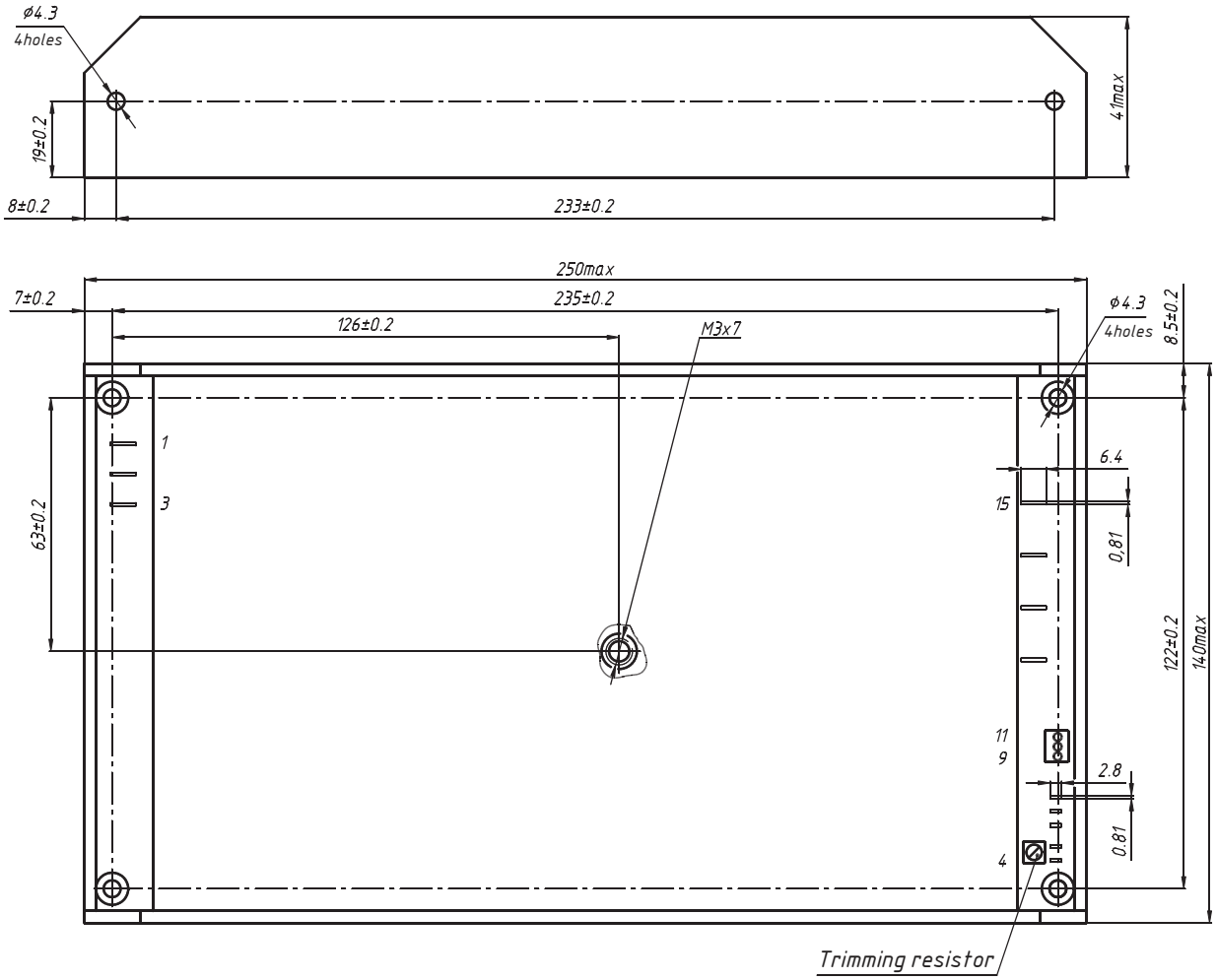
Dimensions

Single-channel design with blade contacts



PIN #	1	2	3	4	5	6	7
SINGLE-CHANNEL	L	N	⏚	-REMOTE OFF	+REMOTE OFF	+RS	-RS

PIN #	8	9	10	11	12	13	14	15
SINGLE-CHANNEL	PARAL	+U FAN	-U FAN	NOT USE	+ OUT 1	+ OUT 1	−OUT 1	−OUT 1

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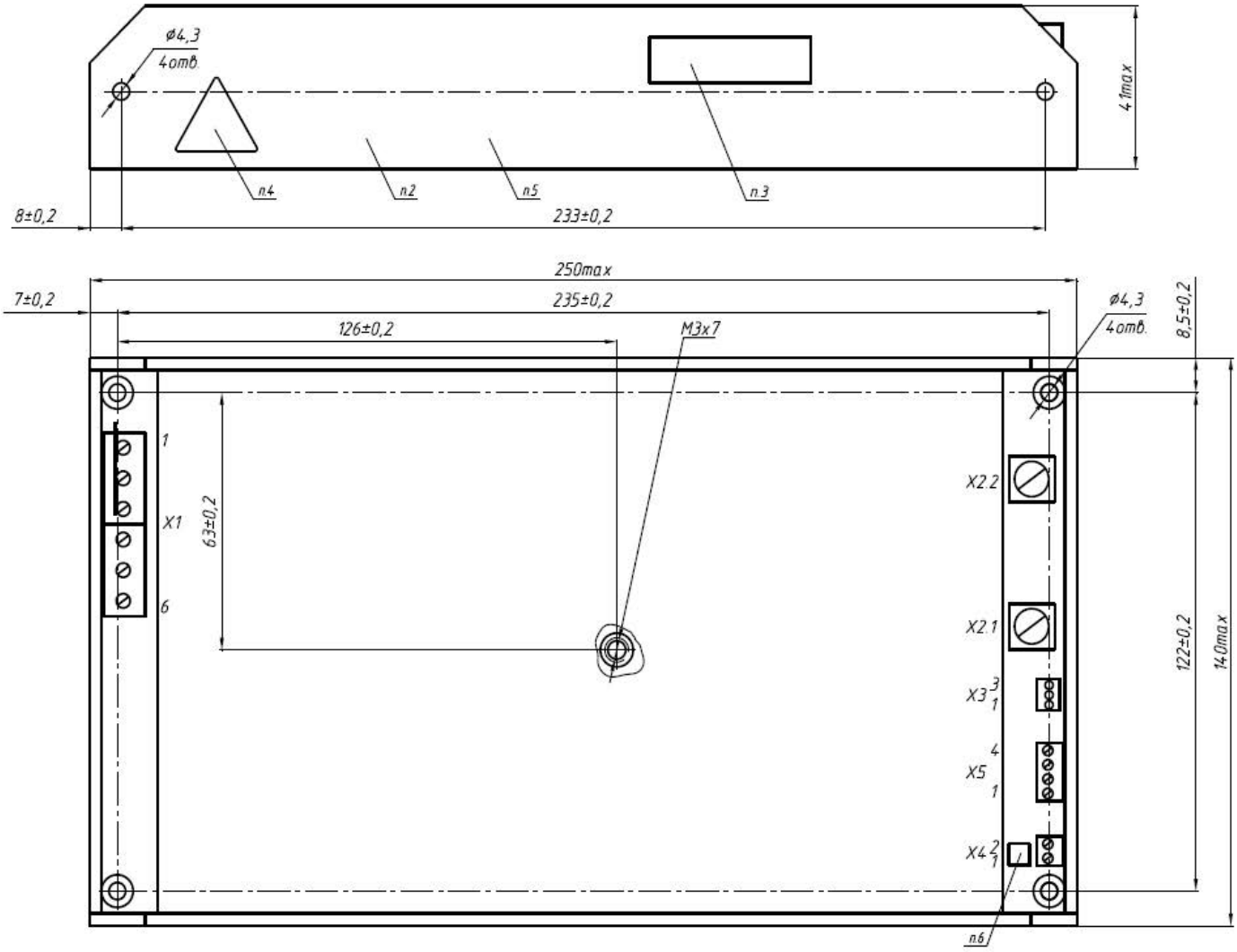
Overall scheme

Three-phase module Version with terminal blocks



Pin assignment

PIN #	X1.1	X1.2	X1.3	X1.4	X1.5	X1.6	X2.1	X2.2	X3.1
SINGLE-CHANNEL	C	B	A	⏚	-	-	+ OUT 1	-OUT 1	+U FAN

PIN #	X3.2	X3.3	X4.1	X4.2	X5.1	X5.2	X5.3	X5.4
SINGLE-CHANNEL	-U FAN	-	-REMOTE OFF	+REMOTE OFF	+RS	-RS	PARAL	ADJ

This datasheet is valid for the following units: MAA1500-1S24SXX, MAA1500-1S28SXX, MAA1500-1S48SXX.

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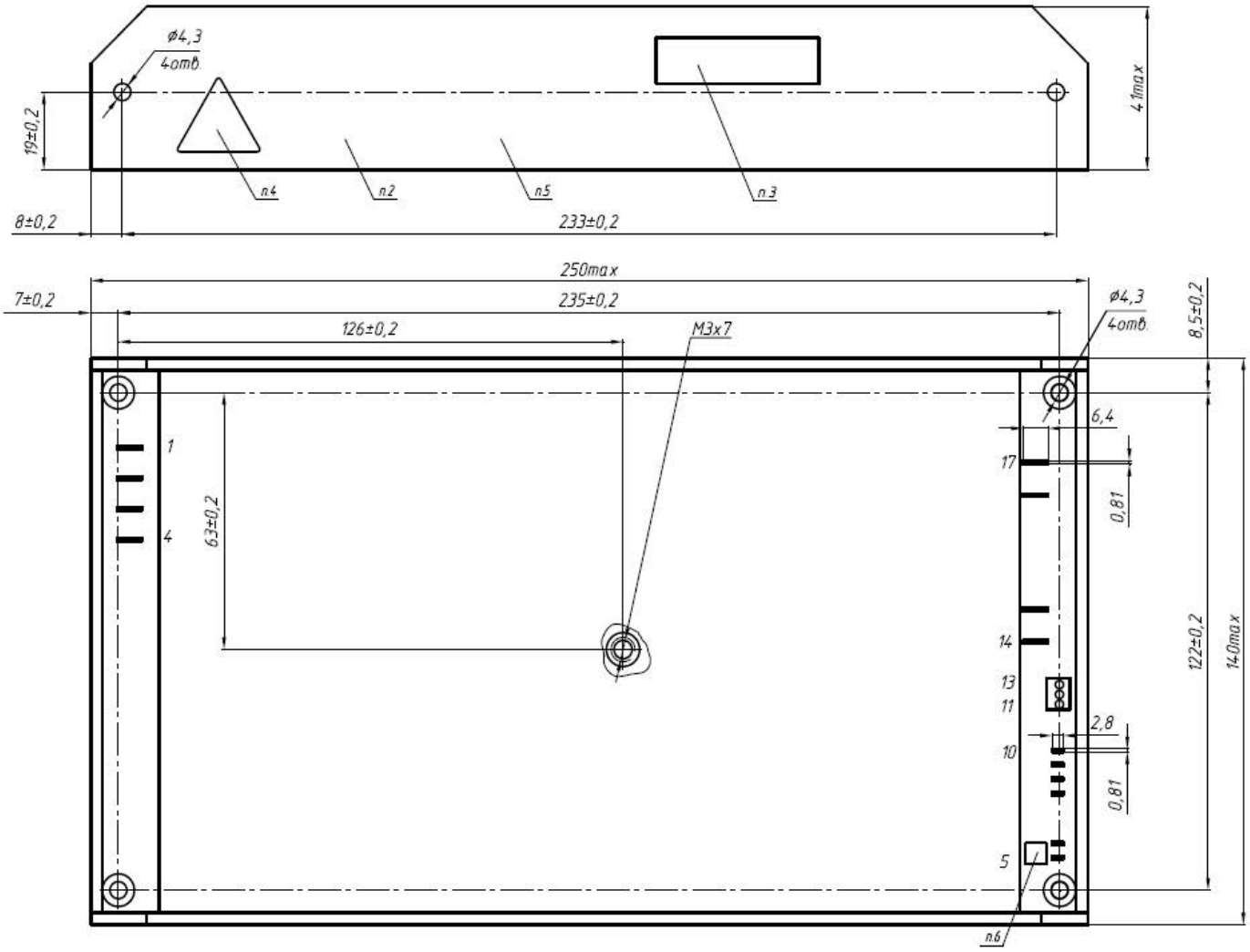
Overall scheme

Three-phase module Version with knife contacts



Назначение выводов

№ ВЫВОДА	1	2	3	4	5	6	7	8
ОДНОКАНАЛЬНЫЙ	С	в	А	⏚	-УПР	+УПР	+ОС	–ОС

№ ВЫВОДА	9	10	11	12	13	14	15	16	17
ОДНОКАНАЛЬНЫЙ	ПАРАЛ	РЕГ	+ВЕНТ	–ВЕНТ	НЕ ИСП	+ВЫХ	+ВЫХ	–ВЫХ	–ВЫХ

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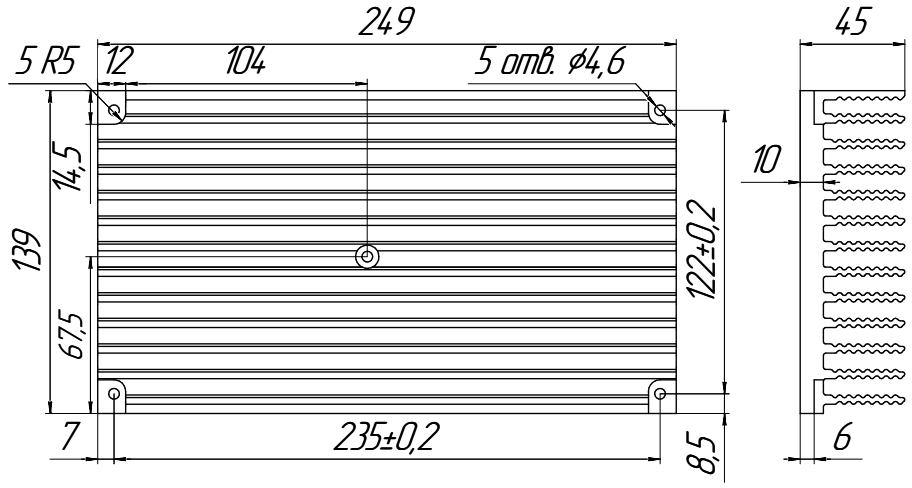
Габаритный чертеж радиатора

Радиатор БКЯЮ.752695.056



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