

THYRISTOR
T183-4000-16

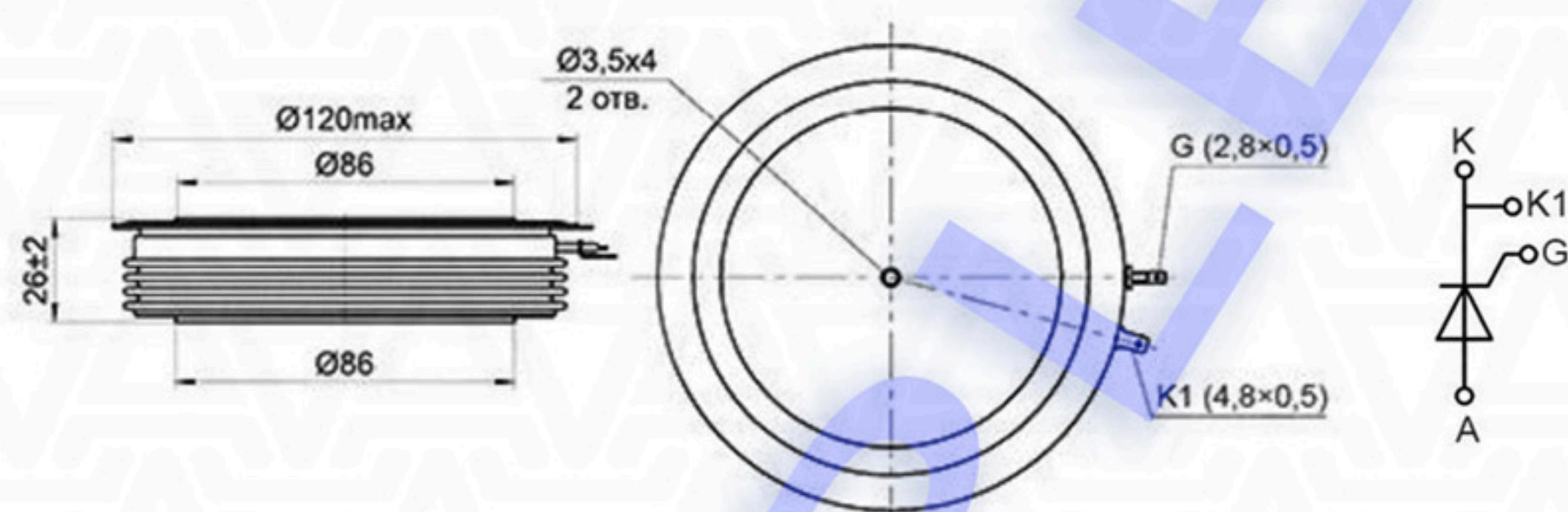
TECHNICAL PASSPORT



1. General product information and technical data

1.1 Date of manufacture: July 2022 y.

1.2 Overall, mounting and connection dimensions and weight of thyristors



A – Anode

K – Cathode

K1 – Additional cathode

G – Gate

Weight, max – 1800 g

Clamping force – 60-70 kN

1.3 Certificate of acceptance

Thyristor T183-4000-16

in the amount of pieces correspond to the requirements and norms, and recognized serviceable.

Quality Control Department



" " 2022 y.

1.4 Electrical characteristics of the thyristor T183-4000-16

Max. average on-state current (T_{CASE})	$I_{T(AV)}$	3680 A (85°C) 4620 A (70°C)
Repetitive peak off-state voltage; Repetitive peak reverse voltage	V_{DRM} / V_{RRM}	1600 V
RMS on-state current	I_{TRMS}	7257 A
Surge on-state current	I_{TSM}	70 kA
Safety factor	I^2t	25000 kA ² ·s
Peak on-state voltage	V_{TM}	1.55 V
Peak on-state current	I_{TM}	12570 A
On-state threshold voltage thyristor	$V_{T(TO)}$	0.864 V
On-state slope resistance	r_T	0.055 mΩ
Turn-off time	t_q	250 µs
Critical rate of rise of off-state voltage	$(dv_D/dt)_{crit}$	1600 V/µs
Critical rate of rise of on-state current	$(di_T/dt)_{crit}$	200 A/µs
Maximum permissible junction temperature	T_j	-60...+125 °C
Thermal resistance junction to case	$R_{th(j-c)}$	0.008 °C/W

Recommended heatsink type: O193, OM109, OM209.

When the consumer verifies the compliance of thyristors to the standards of current technical specifications tests should be carried out in accordance the defined modes and methods.

2.0 Warranty policy

2.1 The manufacturer guarantees compliance of the thyristors with the requirements and norms.

The warranty period is 2 years from the date of purchase, provided the operating rules and regulations are observed.

3.0 Contents of delivery

3.1 The delivery set includes: a batch of thyristors in accordance with section 1.3; thyristor quality declaration.

4.0 Manufacturer

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