

TRANBERG® ENCLOSURE HEATERS

TEF 9207 Ex 60079-30-1 eb mb, T3 240 VAC, with Junction Box and Thermostat
Zone 1, Zone 2 & Safe Area



An enclosure heater is protecting mechanical, electrical and electronic equipment from freezing, condensation and corrosion. R. Stahl Tranberg offers globally approved Ex, self regulating enclosure heater in AISI

316L steel housing and low maintenance requirements. This model is supplied with ambient air thermostat, +5°C or +15°C and with power output from 100W up to 1000W at 0°C.

It has a low profile and is easy to fit inside cabinets. The self regulating heating element prevents overheating.

Application

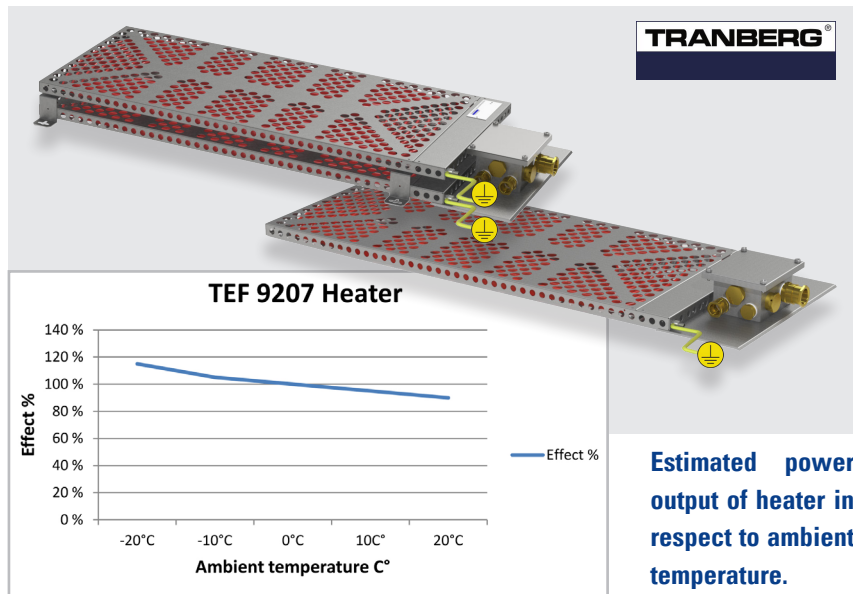
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control.
- Frost protection.

Features and benefits

- Low profile, easy to fit inside cabinets.
- Self regulating heating element. Prevents overheating.
- AISI 316L.
- Low maintenance.

Approvals and certificates

CML 22ATEX3623X
IECEX CML 22.0096X



Technical Data	
Ex protection:	Ex II 2G Ex 60079-30-1 eb mb IIC T3 Gb
Operational ambient temp.:	-50°C ... +50°C
Max. withstand ambient temp.:	+50°C (Heater is energized) / +80°C (Heater is de-energized)
Nominal voltage:	230V 50/60 Hz
Material:	AISI 316L / EN 1.4404
Electrical connection:	The supply circuit shall include an electrical protection device according to IEC/EN 60079-30-1 CL 4.3. The unterminated flying lead 2.5mm ² cable need an appropriate protection of the free end of the cable (for example terminated in an Ex e junction box). For heaters with a thermostat, max 16A circuit breaker with a breaking capacity of min. 1500A.
Ingress Protection (IP):	IP66
Mounting:	Mounted with 4 pcs M6 screws.
Terminals in junction box:	6mm ² : 2+2 pcs, 2.5mm ² : 2 pcs, 10mm ² PE terminals: 3 pcs.
Cable Glands:	1 pc TEF E204/622 M25/D2/9mm, 1 pc TEF 7302 M25 drain plug, TEF 650 M20/M25 Stopping plugs.
Thermostat:	1 pc. ambient air sensing thermostat. Switching temp.: +5°C or +15°C. Hysteresis: +5°C / -5°C

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Description	EL No.	Part No. +5°C	EL No.	Part No. +15°C
Enclosure heater w/ JB & Thermostat, 100W @ 0°C	5420938	92072401	5420942	92072601
Enclosure heater w/ JB & Thermostat, 200W @ 0°C	5420939	92072402	5420943	92072602
Enclosure heater w/ JB & Thermostat, 300W @ 0°C	5420940	92072403	5420944	92072603
Enclosure heater w/ JB & Thermostat, 500W @ 0°C	5420941	92072405	5420945	92072605
Enclosure heater w/ JB & Thermostat, 400W @ 0°C (Sandwich)	5420949	92074404	5420952	92074604
Enclosure heater w/ JB & Thermostat, 600W @ 0°C (Sandwich)	5420950	92074406	5420953	92074606
Enclosure heater w/ JB & Thermostat, 1000W @ 0°C (Sandwich)	5420951	92074410	5420954	92074610

* **Note:** Ambient Air Thermostat : +5°C : Switches heater ON at approx. +3°C ambient temp., and OFF at approx. 11°C ambient temp.
 Ambient Air Thermostat : +15°C : Switches heater ON at approx. +10°C ambient temp., and OFF at approx. 20°C ambient temp.

* Nominal output	Overall dimensions				Mounting dimensions		Weight
	A	B	C	D	E	F	
100W	233	430	30	80	190	160	2,9 kg.
200W	245	684	30	80	440	200	4,7 kg.
300W	280	834	30	80	590	240	6,7 kg.
400W	303	684	80	80	440	276	6,4 kg.
500W	360	1004	30	80	730	320	9,3 kg.
600W	343	834	80	80	590	316	11,7 kg.
1000W	424	1004	80	80	760	397	18,5 kg.

Dimensions / Mounting instructions

4xM6 mounting holes

Note!
Never install the heater with junction box facing upwards.

4xØ6 mounting holes on the backside of the heater.

Hold the heater close to the installation surface, and insert the M6 screws in each of the 4 mounting holes.

Use a socket wrench to tighten the screws firmly and securing the heater.

Amb. sensing thermostat

Stopping Plug M25

Power Gland M25

Drain Plug M25

* 2x Cold lead (only for sandwich model)

* Cold lead

Earth bolt M6x10

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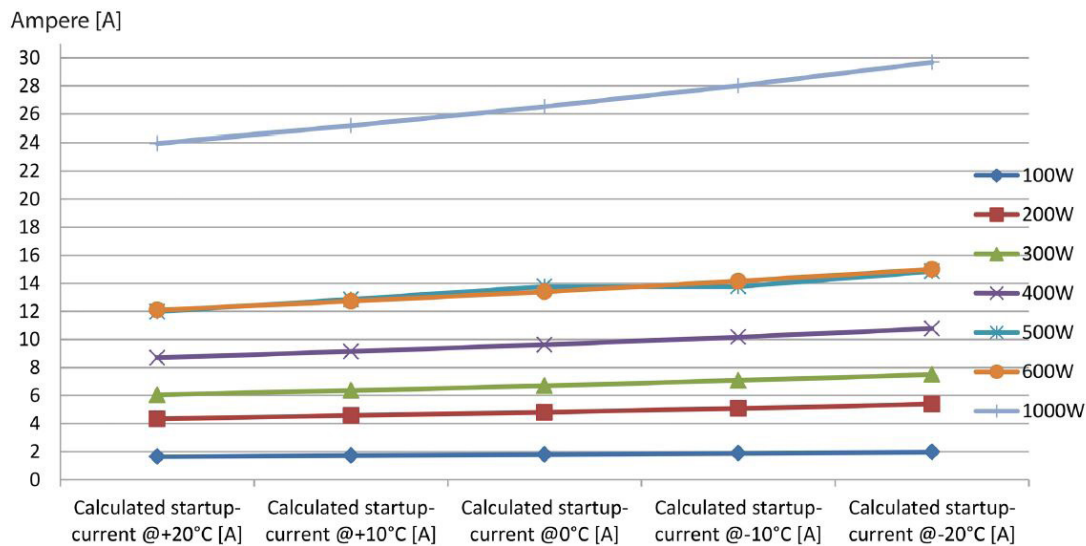
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STARTUP CURRENT FOR TEF 9207 @ 230VAC *

Nominal power [W]	Calculated startup-current @+20°C [A]	Calculated startup-current @+10°C [A]	Calculated startup-current @ 0°C [A]	Calculated startup-current @ -10°C [A]	Calculated startup-current @ -20°C [A]	Max no. of heaters on 16A type C MCB @-20°C
100	1.6	1.7	1.8	1.9	2.0	15
200	4.3	4.6	4.8	5.1	5.4	6
300	6.1	6.4	6.7	7.1	7.5	4
400	8.7	9.1	9.6	10.2	10.8	3
500	12.0	12.8	13.8	13.8	14.8	2
600	12.1	12.7	13.4	14.2	15.0	1
1000	24.0	24.0	26.5	28.0	29.7	1



*** Note:**

The data contained in this document is based on a limited number of tests, and are presented based on our existing knowledge. The real startup-current is affected by a series of parameters including, but not limited to:

- Voltage fluctuations
- Installed cable cross-section and voltage drop in the circuit

The current is foreseen to drop to half of the calculated startup current after approximately 1 minute (no wind, 0°C).

The values shown are presented as a guide for installation and selection of circuit breakers. The precise startup current for each individual heater can not be guaranteed.



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