Air Cooled Heat sink

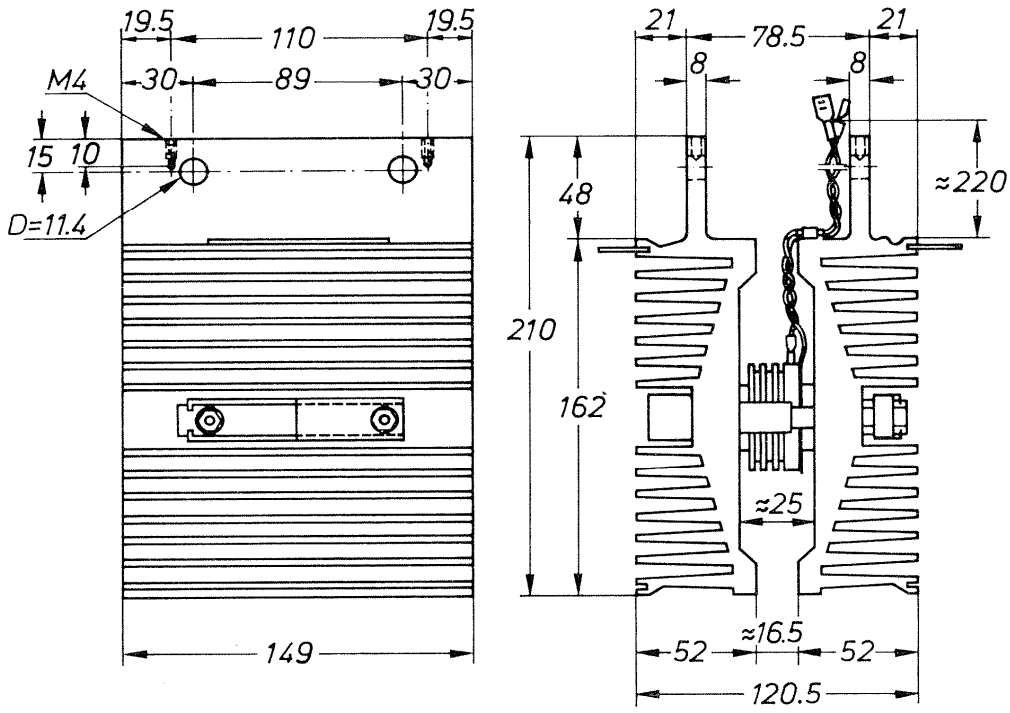
5SAA21V9000, 5SAA21V8500

Type YAP 3-05

Air cooled heat sink for double sided cooling of disc housing thyristors and diodes, diameter 40 - 75 mm.

Part number	Max contact diameter	Weight	R_{thHA} at air flow measured with specified device contact diameter			R_{thHA} at power dissipation measured with specified device contact diameter			Recommended mounting clamp
			Forced air cooling			Convective air cooling			
	mm	kg	K/kW	dm^3/s	mm	K/kW	W	mm	
5SAA21V9000	19	3.7	90	100	19	510	150	19	5SAC10V1600
5SAA21V8500	50	3.6	85	100	47	485	150	47	5SAC10V1600

Specific heat: 960 J



[mm]

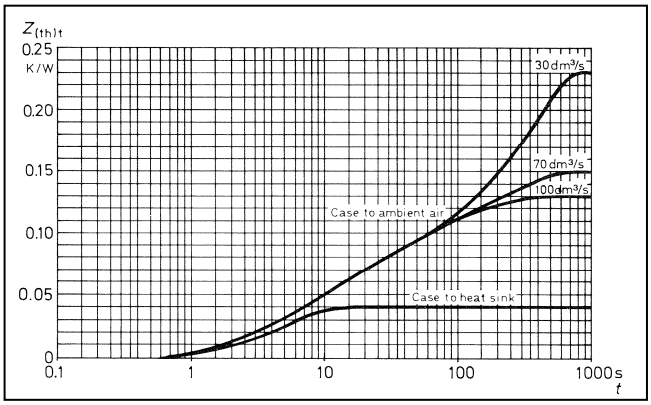


Fig. 1 Transient thermal imperdance, $Z_{(th)t}$. Case to ambient air at different air-flow rates. Pole piece Ø 19 mm

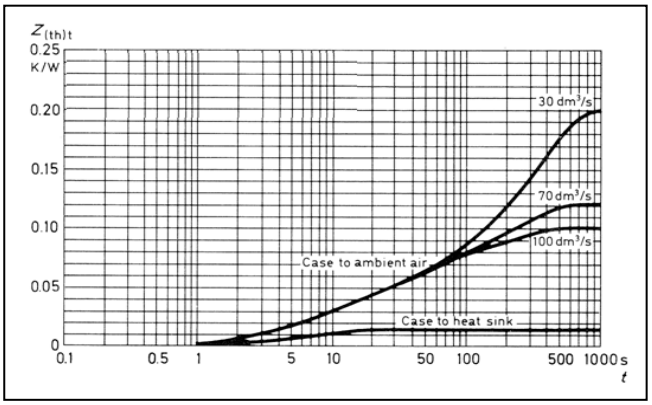


Fig. 2 Transient thermal imperdance, $Z_{(th)t}$. Case to ambient air at different air-flow rates. Pole piece Ø 34 mm

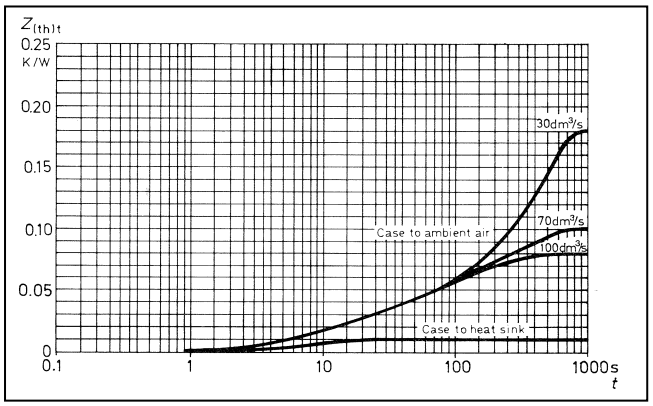


Fig. 3 Transient thermal imperdance, $Z_{(th)t}$. Case to ambient air at different air-flow rates. Pole piece Ø 47 mm

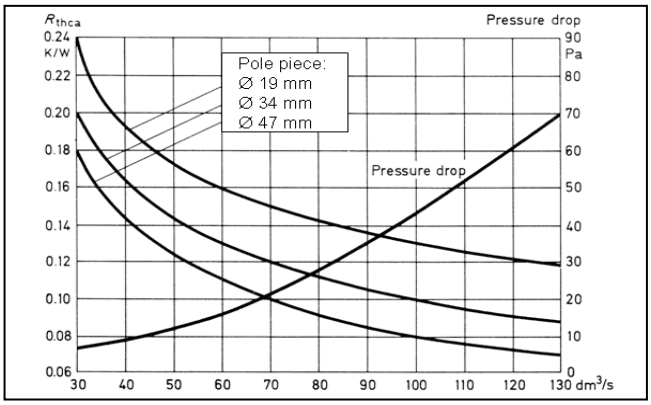


Fig. 4 Thermal resistance R_{thca}. Case to ambient air and static pressure drop vs flow of cooling air.

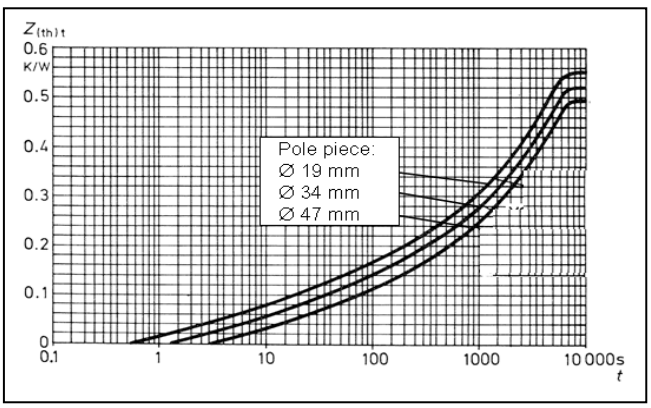


Fig. 5 Convection cooling. Transient thermal imperdance $Z_{(th)t}$. Case to ambient air. Power loss 150 W.

Air Cooled Heat sink

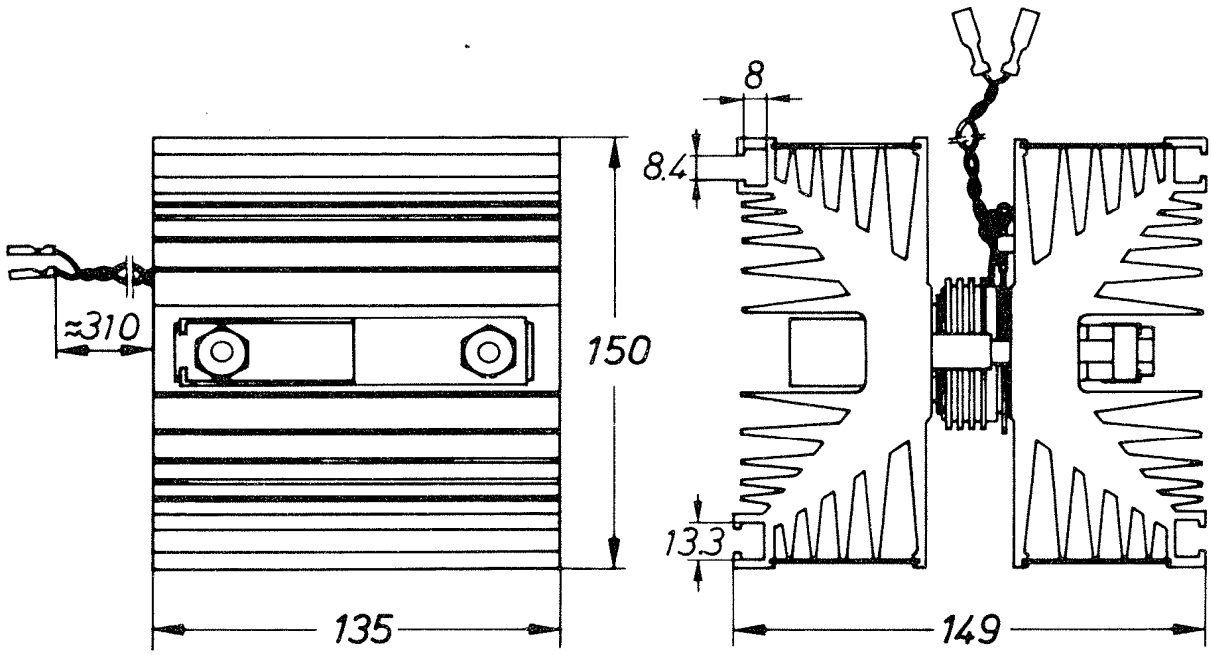
5SAA15V9000, 5SAA15V8500

Type YAP 6-01

Air cooled heat sink for double sided cooling of disc housing thyristors and diodes, diameter 40 - 75 mm.

Part number	Max contact diameter	Weight	R_{thHA} at air flow measured with specified device contact diameter			R_{thHA} at power dissipation measured with specified device contact diameter			Recommended mounting clamp
			Forced air cooling			Convective air cooling			
	mm	kg	K/kW	dm^3/s	mm	K/kW	W	mm	
5SAA15V9000	19	3.4	90	100	19	510	150	19	5SAC10V1600
5SAA15V8500	50	3.3	85	100	47	485	150	47	5SAC10V1600

Specific heat: 960 J



[mm]

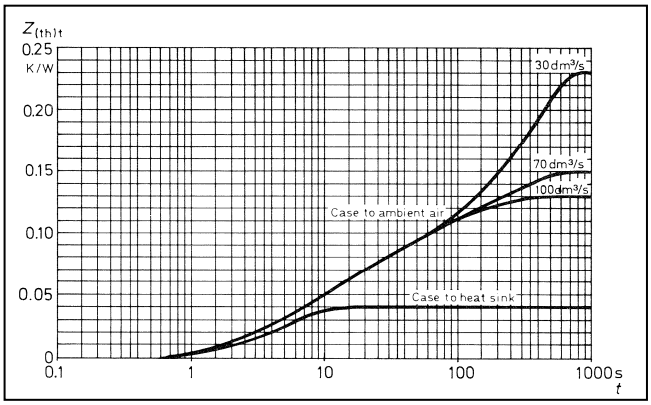


Fig. 1 Transient thermal imperdance, $Z_{(th)t}$. Case to ambient air at different air-flow rates. Pole piece Ø 19 mm

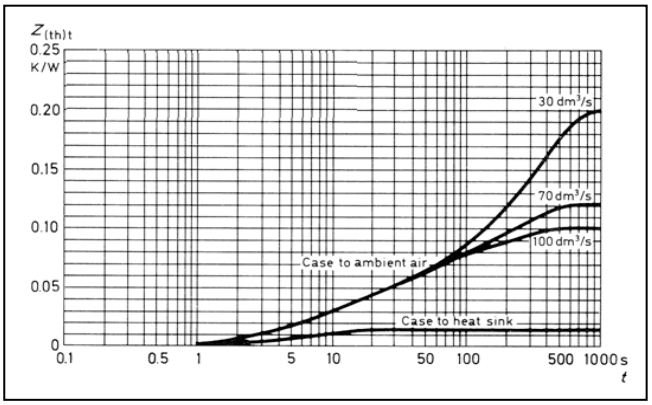


Fig. 2 Transient thermal imperdance, $Z_{(th)t}$. Case to ambient air at different air-flow rates. Pole piece Ø 34 mm

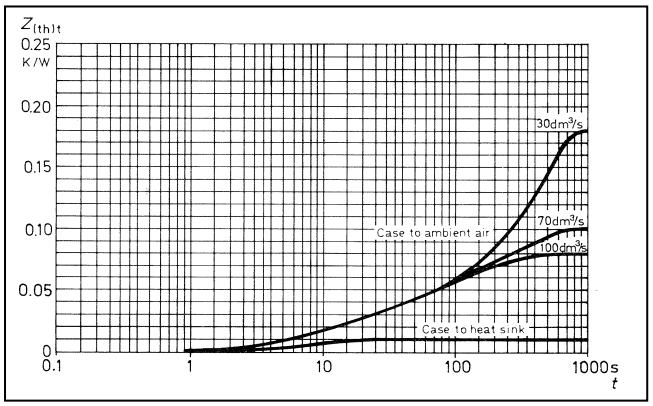


Fig. 3 Transient thermal imperdance, $Z_{(th)t}$. Case to ambient air at different air-flow rates. Pole piece Ø 47 mm

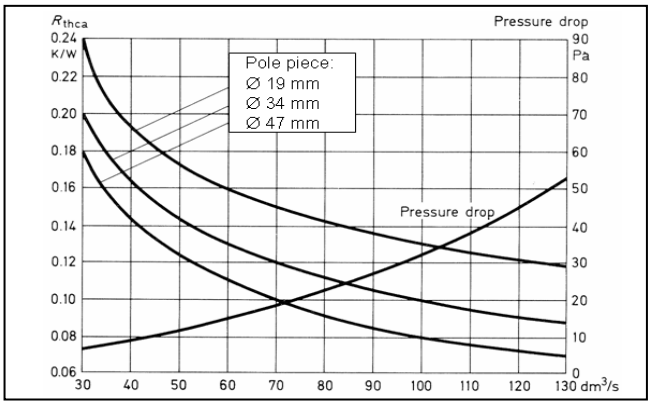


Fig. 4 Thermal resistance R_{thca}. Case to ambient air and static pressure drop vs flow of cooling air.

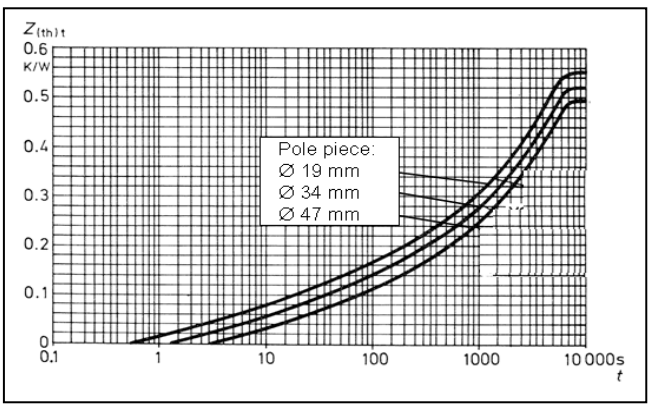


Fig. 5 Convection cooling. Transient thermal imperdance $Z_{(th)t}$. Case to ambient air. Power loss 150 W.

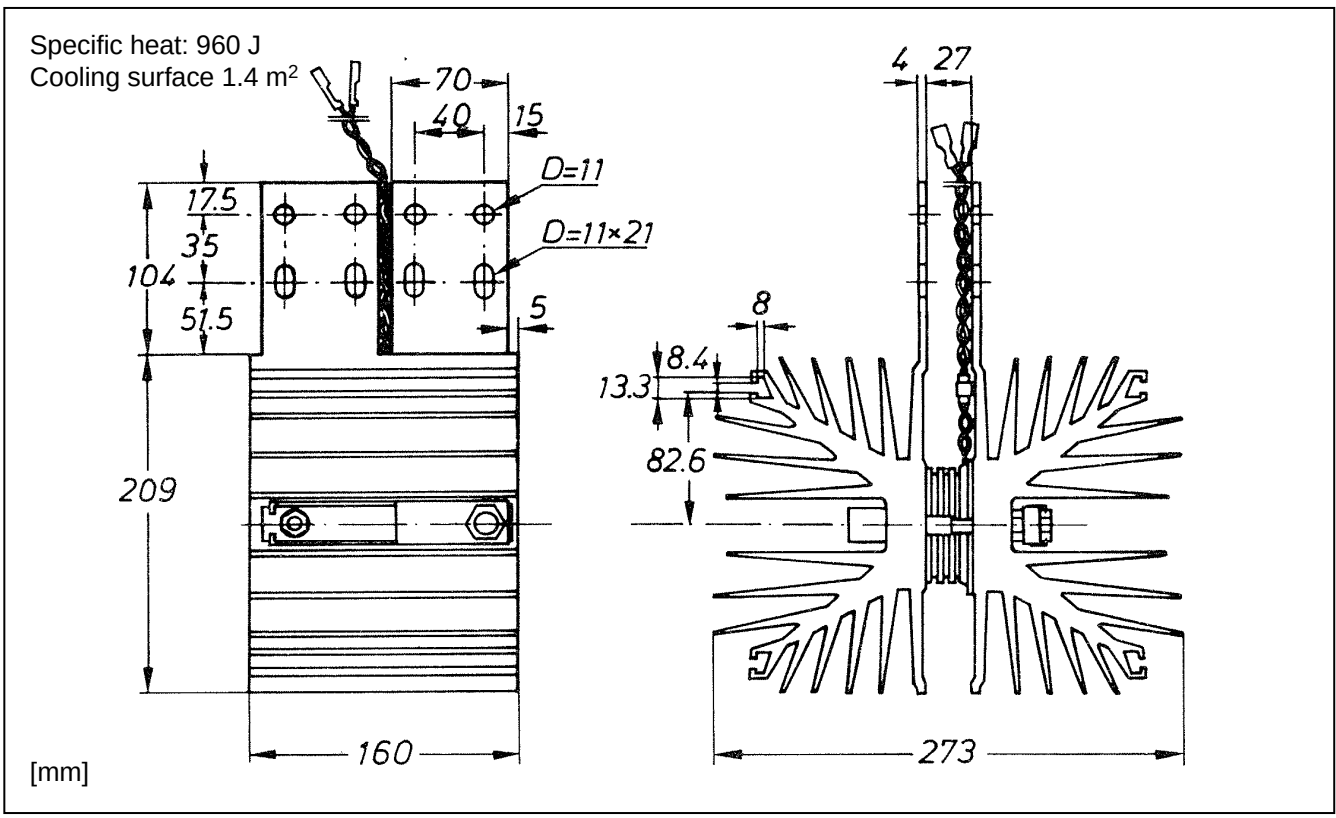
Air Cooled Heat sink

5SAA21V4500

Type YAP 8-02

Air cooled heat sink for double sided cooling of disc housing thyristors and diodes, diameter 75 mm.

Part number	Max contact diameter	Weight	R_{thHA} at air flow measured with specified device contact diameter			R_{thHA} at power dissipation measured with specified device contact diameter			Recommended mounting clamp
			Forced air cooling			Convective air cooling			
	mm	kg	K/kW	dm^3/s	mm	K/kW	W	mm	
5SAA21V4500	50	8.2	45	300	47	240	300	47	5SAC10V1601



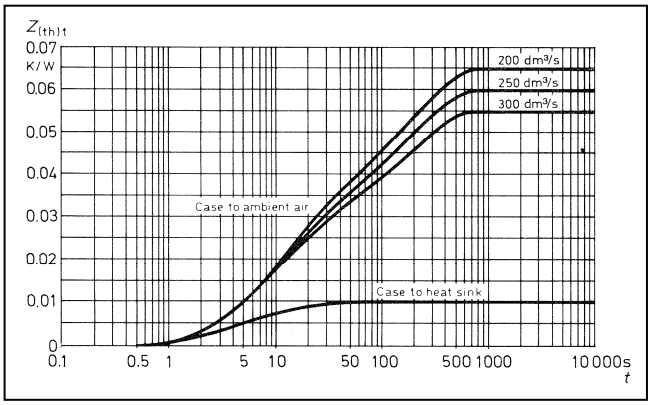


Fig. 1 Transient thermal imperdance, $Z_{(th)t}$. Case to ambient air at different air-flow rates. Pole piece Ø 47 mm.

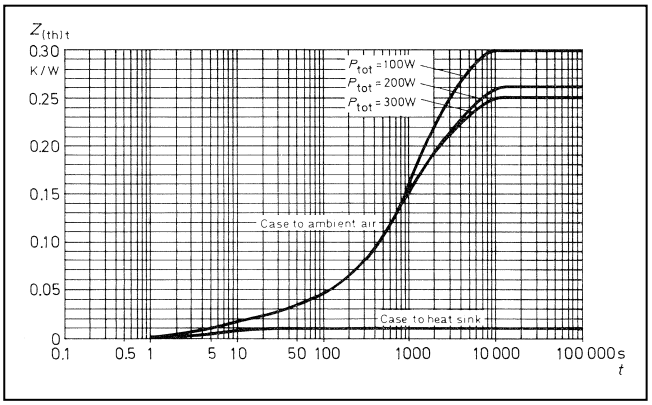


Fig. 2 Convection cooling. Transient thermal imperdance $Z_{(th)t}$. Case to ambient air for different power losses. Pole piece 47 mm.

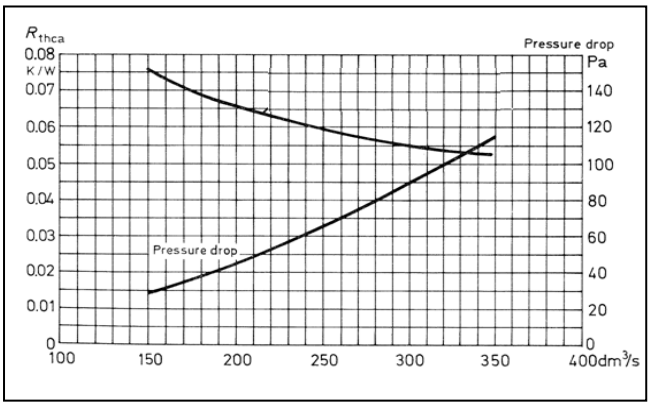


Fig. 3 Thermal resistance R_{thca}. Case to ambient air and static pressure drop vs flow of cooling air. Pole piece Ø 47 mm.

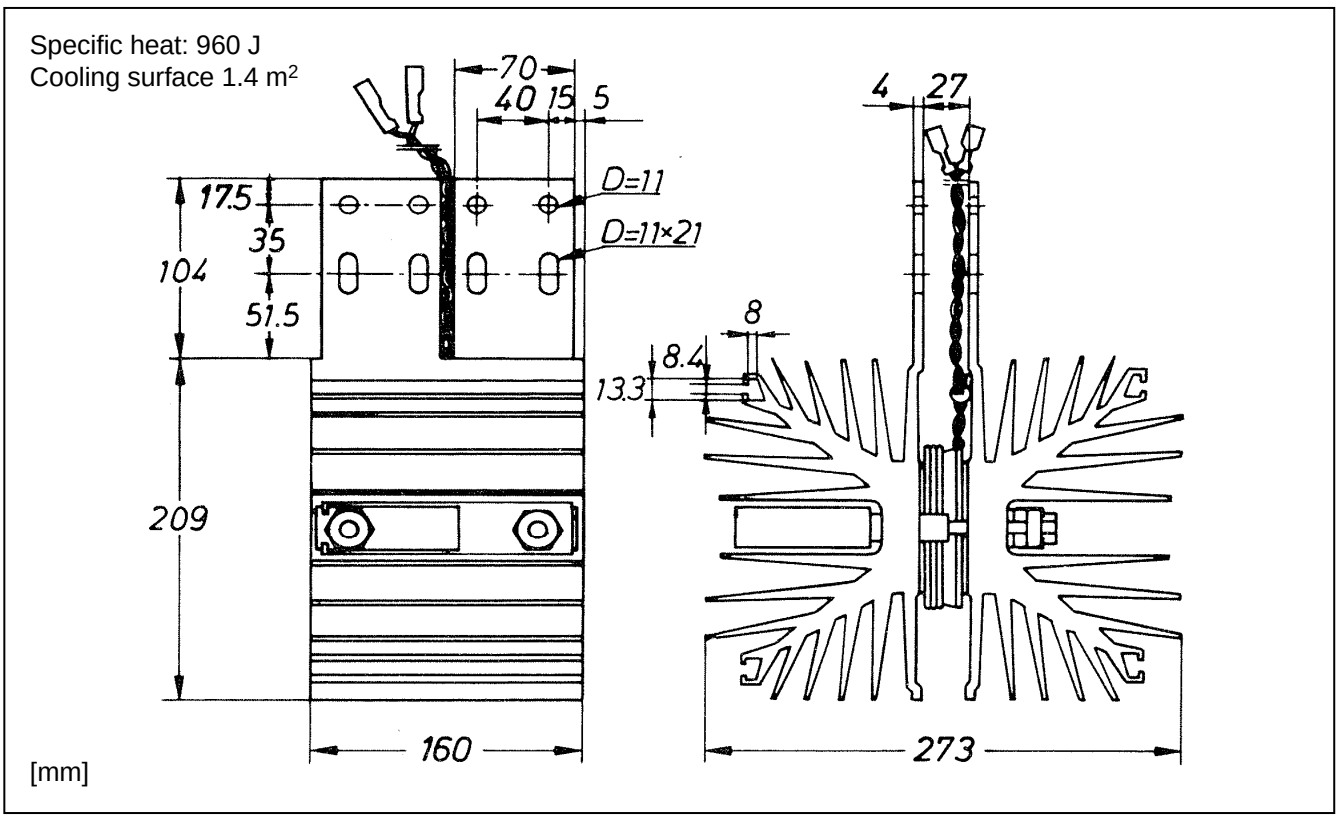
Air Cooled Heat sink

5SAA21V3500

Type YAP 8-03

Air cooled heat sink for double sided cooling of disc housing thyristors and diodes, diameter 100 - 110 mm.

Part number	Max contact diameter	Weight	R_{thHA} at air flow measured with specified device contact diameter			R_{thHA} at power dissipation measured with specified device contact diameter			Recommended mounting clamp
			Forced air cooling			Convective air cooling			
	mm	kg	K/kW	dm^3/s	mm	K/kW	W	mm	
5SAA21V3500	80	8.2	35	300	78	230	300	78	5SAC13V5000



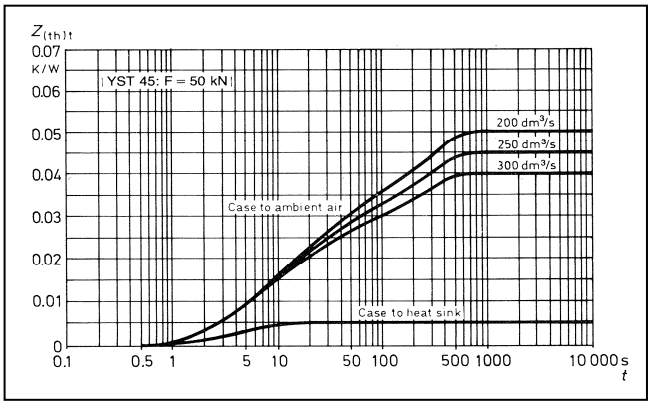


Fig. 1 Transient thermal imperdance, $Z_{(th)t}$. Case to ambient air at different air-flow rates. Pole piece Ø 78 mm.

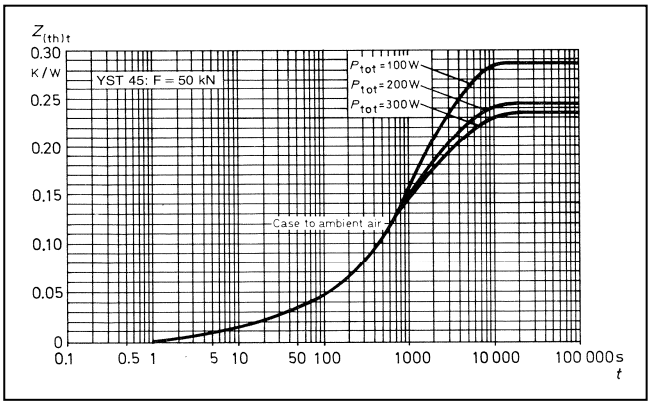


Fig. 2 Convection cooling. Transient thermal imperdance $Z_{(th)t}$. Case to ambient air for different power losses. Pole piece 78 mm.

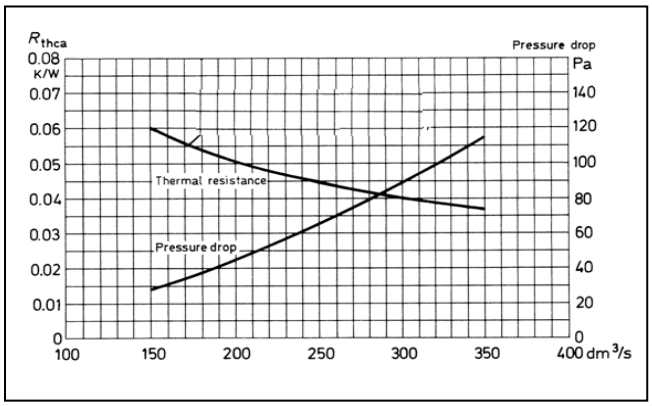


Fig. 3 Thermal resistance R_{thca}. Case to ambient air and static pressure drop vs flow of cooling air. Pole piece Ø 78 mm.