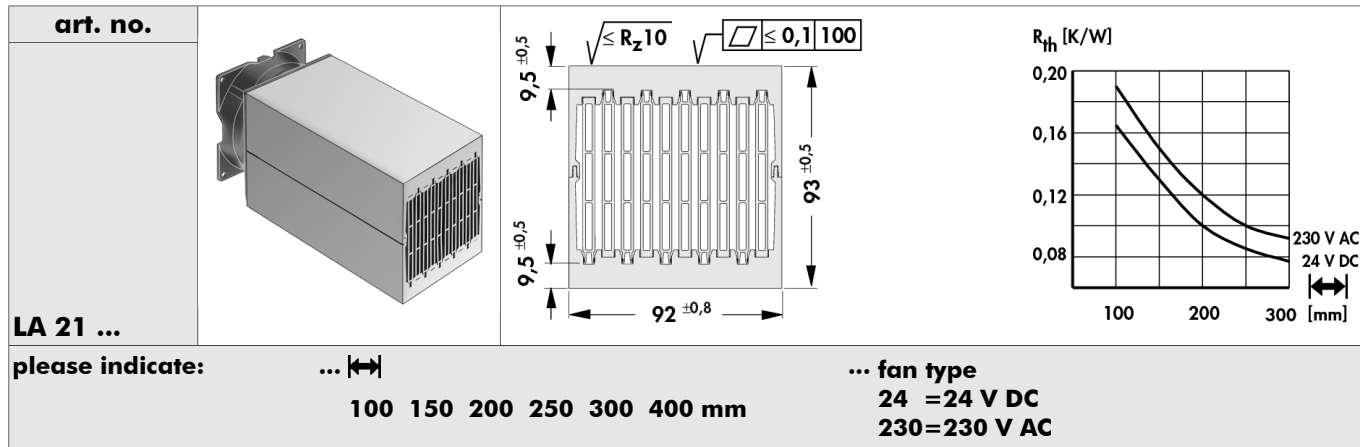


## Cooling aggregates with axial fan

### Hollow-fin cooling aggregates

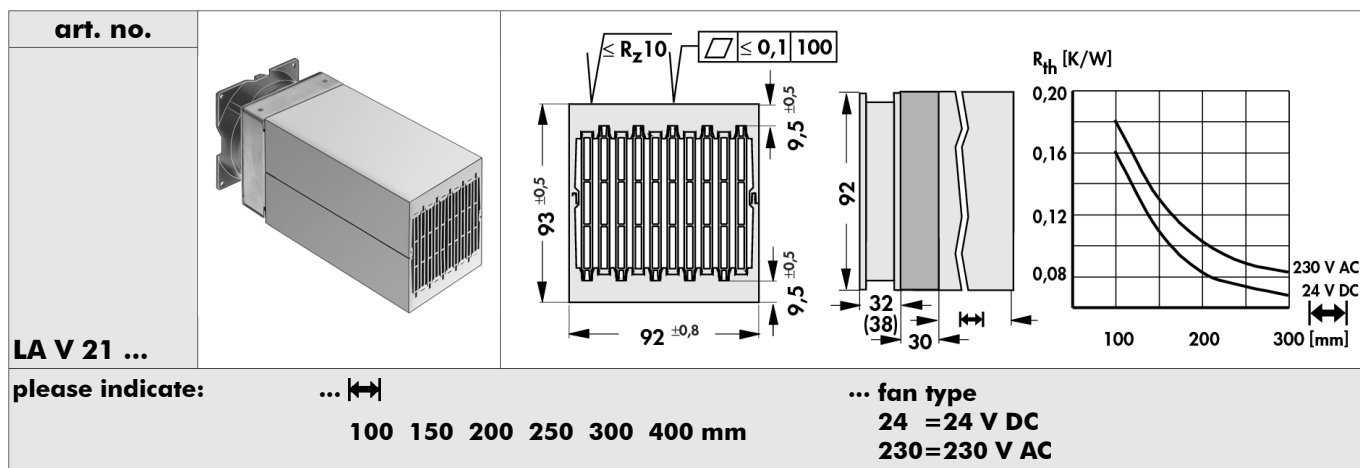
- extremely low losses due to optimised hollow fin geometry
- effective heat dissipation
- compact construction with axial fans
- two opposite mounting surfaces are milled flat

without air flow chamber



specification of the fan motors and additional treatment upon customer's request

with air flow chamber



specification of the fan motors and additional treatment upon customer's request

### Technical data of the fans

	... 24	... 230
<b>type</b>	Papst, ball bearing	Papst, ball bearing
<b>dimensions</b>	92 x 92 x 32 mm	92 x 92 x 38 mm
<b>voltage</b>	24 V DC	230 V AC
<b>power input</b>	2.4 W	12 W
<b>max. air flow</b>	80 m <sup>3</sup> /h	75 m <sup>3</sup> /h
<b>temperature range</b>	-20 °C ... +75 °C	-40 °C ... +75 °C
<b>noise level</b>	37 dB(A)	37 dB(A)
<b>rated speed</b>	3,000 min <sup>-1</sup>	2,700 min <sup>-1</sup>
<b>weight</b>	190 g	420 g
<b>failure rate</b>	L <sub>10</sub> > 70.000 h (40 °C)	L <sub>10</sub> > 52.500 h (40 °C)

Miniature cooling aggregates  
Protection grid for axial fans  
Heatsinks for Solid State Relay  
High capacity heatsinks

→ D 9 - 10  
→ D 30  
→ A 12  
→ A 54 - 55

Special heatsink design  
Hole pattern  
Standard aluminium profiles  
Technical introduction

→ A 133 - 134  
→ A 21  
→ A 131 - 132  
→ A 2 - 7