

## 20-0020 Switching points in cooling system

### Data

Models	124	129	140	210
Thermostat at coolant temperature °C				
Start of opening	78 – 82	78 – 82	78 – 82	78 – 82
Max. opening	94	94	94	94
Viscous fan coupling cut-in at airflow temperature °C	92 – 100	92 – 100	92 – 100	92 – 100
Safety cutoff at engine speed				
fan speed rpm	4500 3250	4500 3250	4500 3420	4500 3420
Electric auxiliary fan <sup>2)</sup>				
1st stage on/off	107/100 16/11	100/95 -	100/95 14/12	95/115 <sup>3)</sup> 14/20 <sup>3)</sup>
2nd stage on/off	107/100	107/100 20/15	107/100 <sup>4)</sup> 17/14	
3rd stage on/off			115/107 <sup>4)</sup> 20/17	
A/C at coolant temperature in °C				
Start of cycle <sup>5)</sup>	121–123	121–123	121–123	121–123
Emergency off	126–128	126–128	126–128	126–128
System cap opens at pressure in bar or °C max.				
1st stage	1.3 – 1.5 130 – 134	1.3 – 1.5 130 – 134	1.3 – 1.5 <sup>6)</sup> 130 – 134 <sup>6)</sup>	1.3 – 1.5 130 – 134
2nd stage	–	1.8 – 2.2 137 – 143	–	1.8 – 2.2 137 – 143

<sup>2)</sup> At coolant temperature in °C or refrigerant pressure in bar, 1st stage cuts in in line with vehicle speed: compressor switched on

<40 km/h on  
>70km/h off

<sup>3)</sup> Fully engaged

<sup>4)</sup> USA circuit. A/C off (EC button pressed), outside air > 15°C. 2nd stage of this version operates at 107/100°C or 17/14 bar, respectively

<sup>5)</sup> Cycle: 50% ON period, 20 seconds on  
20 seconds off

<sup>6)</sup> From outside temperature of > 10°C