

5118N



Durch die Abkündigung elektronischer Bauelemente musste die Elektronik des Lüfters geringfügig modifiziert werden.
Dadurch haben sich Werte des Lüfters geändert.

Due to the discontinuation of a electronic component the fan electronics had to be slightly adapted. Therefore specification figures changed.

Technische Daten / technical data	Old fan: 5118N (9295410022)	New fan: 5118N (9295410061)
Nennspannung / <i>Nominal Voltage</i>	48V	48V
Spannungsbereich / <i>Voltage Range</i>	24V...60V	24V...60V
Nenndrehzahl / <i>Nominal Speed</i>	2900 1/min	2900 1/min
Volumenstrom / <i>Air Flow</i>	260 m3/h	260 m3/h
Sollwerteingang / <i>Speed Control Input</i>	Keinen / <i>None</i>	Keinen / <i>None</i>
Signalausgang / <i>Signal Output</i>	Keinen / <i>None</i>	Keinen / <i>None</i>
Anlaufstrom / <i>Start-up Current</i>	< 1000 mA peak	< 500 mA peak
Anlaufverzögerung / <i>Start-up delay</i>	-/-	< 4 s
Einschaltstrom / <i>Inrush Current</i>	4 A peak	30 mA
Blockierschutz / <i>Locked Rotor Protection</i>	fall back current limiter	El. Wiederanl. / <i>el. restart</i> 0,5s / 5,0s
Leistungsaufnahme / <i>Power Consumption</i>	9,5 W	9,5 W
Geräusch / <i>Noise (Schalldruck)</i>	48,0 dB(A)	48,0 dB(A)
Schallleistung / <i>Sound Power</i>	6,1 bel(A)	6,1 bel(A)
Zulässige Umgebungstemperatur / <i>Temperature Range</i>	-25...+72°C	- 25...+72 °C
Lebensdauererwartung / <i>Life expectancy</i> L10 @ 40°C	80.000 h	80.000 h
Lebensdauererwartung / <i>Life expectancy</i> L10 @ max. Temp.	37.500 h	37.500 h
Lagersystem / <i>Bearing System</i>	Kugellager / <i>Ball bearing</i>	Kugellager / <i>Ball bearing</i>
Masse / <i>Mass</i>	0,650 kg	0,650 kg
Besonderheiten / <i>Specials</i>		

Old fan - 5118N (9295410022)	New fan - 5118N (9295410061)
------------------------------	------------------------------

<p>Inrush - hotplug (3.300µF @ power supply)</p> <p>47µF Capacitor on PCB Inrush 4 A To note inrush current @ U nom: The internal electrolytic capacitor 47uF/63V has 12 Ohm resistor in line. The existing peak depends on several ceramic capacitors.</p>	<p>N/A</p>																																																																																																																																							
<p>Startup</p> <table border="1"> <thead> <tr> <th>Measure</th> <th>P1:meas(C1)</th> <th>P2:meas(C1)</th> <th>P3:meas(F1)</th> <th>P4:meas(C6)</th> <th>P5:meas(S3)</th> <th>P6:meas(S3)</th> <th>P7:meas(F1)</th> <th>P8:...</th> </tr> </thead> <tbody> <tr> <td>value</td> <td>532.2 mA</td> <td>31.10 V</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>mean</td> <td>395.1 mA</td> <td>31.10 V</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>min</td> <td>-12.5 mA</td> <td>30.97 V</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>max</td> <td>632.4 mA</td> <td>31.10 V</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sddev</td> <td>296.1 mA</td> <td>24.41 V</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sddev%</td> <td>6.43e+1</td> <td>6.43e+1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Measure	P1:meas(C1)	P2:meas(C1)	P3:meas(F1)	P4:meas(C6)	P5:meas(S3)	P6:meas(S3)	P7:meas(F1)	P8:...	value	532.2 mA	31.10 V							mean	395.1 mA	31.10 V							min	-12.5 mA	30.97 V							max	632.4 mA	31.10 V							sddev	296.1 mA	24.41 V							sddev%	6.43e+1	6.43e+1							<p>Startup</p> <table border="1"> <thead> <tr> <th>Measure</th> <th>P1:meas(C1)</th> <th>P2:meas(C1)</th> <th>P3:meas(F1)</th> <th>P4:meas(C6)</th> <th>P5:meas(S3)</th> <th>P6:meas(S3)</th> <th>P7:meas(F1)</th> <th>P8:...</th> </tr> </thead> <tbody> <tr> <td>value</td> <td>443.3 mA</td> <td>28.22 V</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>mean</td> <td>322.5 mA</td> <td>28.22 V</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>min</td> <td>5.5 mA</td> <td>27.1 V</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>max</td> <td>443.3 mA</td> <td>28.22 V</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sddev</td> <td>223.6 mA</td> <td>23.91 V</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sddev%</td> <td>50.2</td> <td>84.7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Measure	P1:meas(C1)	P2:meas(C1)	P3:meas(F1)	P4:meas(C6)	P5:meas(S3)	P6:meas(S3)	P7:meas(F1)	P8:...	value	443.3 mA	28.22 V							mean	322.5 mA	28.22 V							min	5.5 mA	27.1 V							max	443.3 mA	28.22 V							sddev	223.6 mA	23.91 V							sddev%	50.2	84.7															
Measure	P1:meas(C1)	P2:meas(C1)	P3:meas(F1)	P4:meas(C6)	P5:meas(S3)	P6:meas(S3)	P7:meas(F1)	P8:...																																																																																																																																
value	532.2 mA	31.10 V																																																																																																																																						
mean	395.1 mA	31.10 V																																																																																																																																						
min	-12.5 mA	30.97 V																																																																																																																																						
max	632.4 mA	31.10 V																																																																																																																																						
sddev	296.1 mA	24.41 V																																																																																																																																						
sddev%	6.43e+1	6.43e+1																																																																																																																																						
Measure	P1:meas(C1)	P2:meas(C1)	P3:meas(F1)	P4:meas(C6)	P5:meas(S3)	P6:meas(S3)	P7:meas(F1)	P8:...																																																																																																																																
value	443.3 mA	28.22 V																																																																																																																																						
mean	322.5 mA	28.22 V																																																																																																																																						
min	5.5 mA	27.1 V																																																																																																																																						
max	443.3 mA	28.22 V																																																																																																																																						
sddev	223.6 mA	23.91 V																																																																																																																																						
sddev%	50.2	84.7																																																																																																																																						
<p>fall back current limiter</p> <table border="1"> <thead> <tr> <th>Measure</th> <th>P1:meas(C6)</th> <th>P2:meas(C6)</th> <th>P3:meas(C6)</th> <th>P4:meas(C6)</th> <th>P5:meas(S3)</th> <th>P6:meas(S3)</th> <th>P7:meas(F1)</th> <th>P8:...</th> </tr> </thead> <tbody> <tr> <td>value</td> <td>112.83 mA</td> <td>1.392012 MHz</td> <td>415.2 mA</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>mean</td> <td>112.83 mA</td> <td>1.392012 MHz</td> <td>415.2 mA</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>min</td> <td>112.83 mA</td> <td>1.392012 MHz</td> <td>415.2 mA</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>max</td> <td>112.83 mA</td> <td>1.392012 MHz</td> <td>415.2 mA</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sddev</td> <td>3</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sddev%</td> <td>2.6327e-3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Measure	P1:meas(C6)	P2:meas(C6)	P3:meas(C6)	P4:meas(C6)	P5:meas(S3)	P6:meas(S3)	P7:meas(F1)	P8:...	value	112.83 mA	1.392012 MHz	415.2 mA						mean	112.83 mA	1.392012 MHz	415.2 mA						min	112.83 mA	1.392012 MHz	415.2 mA						max	112.83 mA	1.392012 MHz	415.2 mA						sddev	3	6							sddev%	2.6327e-3								<p>locked Rotor 0.5s / 5,0s ~400mA peak</p> <table border="1"> <thead> <tr> <th>Measure</th> <th>P1:meas(C6)</th> <th>P2:meas(C6)</th> <th>P3:meas(C6)</th> <th>P4:meas(C6)</th> <th>P5:meas(C6)</th> <th>P6:meas(C6)</th> <th>P7:meas(C6)</th> <th>P8:meas(C6)</th> </tr> </thead> <tbody> <tr> <td>value</td> <td>205.4739 mA</td> <td>187.8 µs</td> <td>5.919725 V</td> <td>181.654475 mHz</td> <td>181.654475 mHz</td> <td>487.4039 mA</td> <td>9.027 %</td> <td>5.2863774 V</td> </tr> <tr> <td>mean</td> <td>205.4739 mA</td> <td>187.8 µs</td> <td>5.919725 V</td> <td>181.654475 mHz</td> <td>181.654475 mHz</td> <td>487.4039 mA</td> <td>9.027 %</td> <td>5.2863774 V</td> </tr> <tr> <td>min</td> <td>205.4739 mA</td> <td>187.8 µs</td> <td>5.919725 V</td> <td>181.654475 mHz</td> <td>181.654475 mHz</td> <td>487.4039 mA</td> <td>9.027 %</td> <td>5.2863774 V</td> </tr> <tr> <td>max</td> <td>205.4739 mA</td> <td>187.8 µs</td> <td>5.919725 V</td> <td>181.654475 mHz</td> <td>181.654475 mHz</td> <td>487.4039 mA</td> <td>9.027 %</td> <td>5.2863774 V</td> </tr> <tr> <td>sddev</td> <td>2.918 mA</td> <td>1.619 µs</td> <td></td> <td></td> <td></td> <td>17.45 µs</td> <td></td> <td></td> </tr> <tr> <td>sddev%</td> <td>1.4</td> <td>0.8</td> <td></td> <td></td> <td></td> <td>3.57</td> <td></td> <td></td> </tr> <tr> <td>sddev%</td> <td>1.4</td> <td>0.8</td> <td></td> <td></td> <td></td> <td>3.57</td> <td></td> <td></td> </tr> </tbody> </table>	Measure	P1:meas(C6)	P2:meas(C6)	P3:meas(C6)	P4:meas(C6)	P5:meas(C6)	P6:meas(C6)	P7:meas(C6)	P8:meas(C6)	value	205.4739 mA	187.8 µs	5.919725 V	181.654475 mHz	181.654475 mHz	487.4039 mA	9.027 %	5.2863774 V	mean	205.4739 mA	187.8 µs	5.919725 V	181.654475 mHz	181.654475 mHz	487.4039 mA	9.027 %	5.2863774 V	min	205.4739 mA	187.8 µs	5.919725 V	181.654475 mHz	181.654475 mHz	487.4039 mA	9.027 %	5.2863774 V	max	205.4739 mA	187.8 µs	5.919725 V	181.654475 mHz	181.654475 mHz	487.4039 mA	9.027 %	5.2863774 V	sddev	2.918 mA	1.619 µs				17.45 µs			sddev%	1.4	0.8				3.57			sddev%	1.4	0.8				3.57		
Measure	P1:meas(C6)	P2:meas(C6)	P3:meas(C6)	P4:meas(C6)	P5:meas(S3)	P6:meas(S3)	P7:meas(F1)	P8:...																																																																																																																																
value	112.83 mA	1.392012 MHz	415.2 mA																																																																																																																																					
mean	112.83 mA	1.392012 MHz	415.2 mA																																																																																																																																					
min	112.83 mA	1.392012 MHz	415.2 mA																																																																																																																																					
max	112.83 mA	1.392012 MHz	415.2 mA																																																																																																																																					
sddev	3	6																																																																																																																																						
sddev%	2.6327e-3																																																																																																																																							
Measure	P1:meas(C6)	P2:meas(C6)	P3:meas(C6)	P4:meas(C6)	P5:meas(C6)	P6:meas(C6)	P7:meas(C6)	P8:meas(C6)																																																																																																																																
value	205.4739 mA	187.8 µs	5.919725 V	181.654475 mHz	181.654475 mHz	487.4039 mA	9.027 %	5.2863774 V																																																																																																																																
mean	205.4739 mA	187.8 µs	5.919725 V	181.654475 mHz	181.654475 mHz	487.4039 mA	9.027 %	5.2863774 V																																																																																																																																
min	205.4739 mA	187.8 µs	5.919725 V	181.654475 mHz	181.654475 mHz	487.4039 mA	9.027 %	5.2863774 V																																																																																																																																
max	205.4739 mA	187.8 µs	5.919725 V	181.654475 mHz	181.654475 mHz	487.4039 mA	9.027 %	5.2863774 V																																																																																																																																
sddev	2.918 mA	1.619 µs				17.45 µs																																																																																																																																		
sddev%	1.4	0.8				3.57																																																																																																																																		
sddev%	1.4	0.8				3.57																																																																																																																																		