



	VSC 3003L-00	VSC 4806L-00																																																								
Operating Mode	8-30VDC, Max. Current 3A Speed controller without sensor, Open loop Overload protection Stall protection CW/CCW control	8-48VDC, Max. Current 6A Speed controller without sensor, Open loop Overload protection Stall protection CW/CCW control																																																								
Electrical Data																																																										
1 DC motors up to	90W	300W																																																								
2 Operating Voltage Vcc	8-30 VDC	8-48 VDC																																																								
3 Max.output current	5A , <60S	8A , <30S																																																								
4 Continuous output current	3A	6A																																																								
5 Pulse width modulation frequency	16KHz	16KHz																																																								
6 Sampling rate PI current controller	16KHz	16KHz																																																								
7 Max.Speed (1 pole pair)	50000rpm	50000rpm																																																								
8 Efficiency	92%	95%																																																								
Inputs/Outputs																																																										
9 Digital inputs/outputs	5	4																																																								
10 Set value "SP"	Set value speed 0.... +5V (1024 steps)	Set value speed 0.... +5V (1024 steps)																																																								
11 Enable "EN"	Enable 0...+5V	Enable 0...+5V																																																								
12 Direction "F/R"	Direction 0...+5V	Direction 0...+5V																																																								
13 Brake "BK"	Brake 0...+5V	---																																																								
14 Speed Feedback "PG"	TTL	OC output(30V/10mA max)																																																								
15 Status Indicators	Operation: LED light/Blink at 1 HZ; Error: LED Blink at 20Hz																																																									
Environmental Conditions																																																										
16 Temperature - Operation	-30....+45°C	-30....+45°C																																																								
17 Temperature - Storage	-40....+85°C	-40....+85°C																																																								
Mechanical Data																																																										
18 Weight	Approx. 20 g	Approx. 90 g																																																								
19 Dimensions (L x W x H)	45 x 45 x16.2mm	55 x 86 x 21mm																																																								
20 Mounting holes	for screws M3	for screws M3																																																								
21 Connections	 <table border="0"> <tr> <td>Pin6</td><td>PG</td><td>Pin1</td><td>MC</td></tr> <tr> <td>Pin7</td><td>SP</td><td>Pin2</td><td>MB</td></tr> <tr> <td>Pin8</td><td>GND</td><td>Pin3</td><td>MA</td></tr> <tr> <td>Pin9</td><td>GND</td><td>Pin4</td><td>POWER -</td></tr> <tr> <td>Pin10</td><td>+5V, Output</td><td>Pin5</td><td>POWER +</td></tr> <tr> <td>Pin11</td><td>EN</td><td></td><td></td></tr> <tr> <td>Pin12</td><td>F/R</td><td></td><td></td></tr> <tr> <td>Pin13</td><td>BK</td><td></td><td></td></tr> </table>	Pin6	PG	Pin1	MC	Pin7	SP	Pin2	MB	Pin8	GND	Pin3	MA	Pin9	GND	Pin4	POWER -	Pin10	+5V, Output	Pin5	POWER +	Pin11	EN			Pin12	F/R			Pin13	BK			 <table border="0"> <tr> <td>Pin1</td><td>POWER +</td><td>Pin6</td><td>GND</td></tr> <tr> <td>Pin2</td><td>POWER -</td><td>Pin7</td><td>PG</td></tr> <tr> <td>Pin3</td><td>MA</td><td>Pin8</td><td>SP</td></tr> <tr> <td>Pin4</td><td>MB</td><td>Pin9</td><td>F/R</td></tr> <tr> <td>Pin5</td><td>MC</td><td>Pin10</td><td>EN</td></tr> <tr> <td></td><td></td><td>Pin11</td><td>+5V, Output</td></tr> </table>	Pin1	POWER +	Pin6	GND	Pin2	POWER -	Pin7	PG	Pin3	MA	Pin8	SP	Pin4	MB	Pin9	F/R	Pin5	MC	Pin10	EN			Pin11	+5V, Output
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