



	VSC 4806S-00	VSC 4812S-00																																																																				
Operating Mode	8-48VDC, Max. Current 6A Speed controller with hall sensor, Open loop Overload protection Stall protection Sensor error protection	8-48VDC, Max. Current 12A Speed controller with hall sensor, Open loop Overload protection Stall protection Sensor error protection																																																																				
Electrical Data																																																																						
1 DC motor up to	300W	600W																																																																				
2 Operating Voltage Vcc	8-48 VDC	8-48 VDC																																																																				
3 Max.output current	8A , <30S	15A , <30S																																																																				
4 Continuous output current	6A	12A																																																																				
5 Pulse width modulation frequency	20KHz	20KHz																																																																				
6 Sampling rate PI current controller	20KHz	20KHz																																																																				
7 Max.Speed (1 pole pair)	60000rpm	60000rpm																																																																				
8 Efficiency	95%	95%																																																																				
Inputs/Outputs																																																																						
9 Hall sensor signal	HA,HB,HC	HA,HB,HC																																																																				
10 Digital inputs/outputs	3	6																																																																				
11 Set value "SP"	Set value speed 0.... +5V (1024 steps)	Set value speed 0.... +5V (1024 steps)																																																																				
12 Enable "EN"	Enable 0...+5V	Enable 0...+5V																																																																				
13 Direction "F/R"	Direction 0...+5V	Direction 0...+5V																																																																				
14 Brake "BK"	---	Brake 0...+5V																																																																				
15 Speed Feedback "PG"	---	OC ouput(30V/10mA max)																																																																				
16 Alarm Ouput "ALARM"	---	OC ouput(30V/10mA max)																																																																				
17 Status Indicators	Operation: LED light/Blink at 1 HZ; Error: LED Blink at 20Hz																																																																					
18 Hall sensor supply voltage	+5 VDC	+5 VDC																																																																				
19 Hall & Digital signal ground	GND	GND																																																																				
Environmental Conditions																																																																						
20 Temperature - Operation	-30....+45°C	-30....+45°C																																																																				
21 Temperature - Storage	-40....+85°C	-40....+85°C																																																																				
Mechanical Data																																																																						
22 Weight	Approx. 90 g	Approx. 300 g																																																																				
23 Dimensions (L x W x H)	55 x 86 x 21mm	80x 143 x33mm																																																																				
24 Mounting holes	for screws M3	for screws M3																																																																				
25 Connections																																																																						
	<table border="0"> <tr> <td>Pin1</td><td>POWER +</td><td>Pin9</td><td>HC</td></tr> <tr> <td>Pin2</td><td>POWER -</td><td>Pin10</td><td>+5V, Output</td></tr> <tr> <td>Pin3</td><td>MA</td><td>Pin11</td><td>GND</td></tr> <tr> <td>Pin4</td><td>MB</td><td>Pin12</td><td>F/R</td></tr> <tr> <td>Pin5</td><td>MC</td><td>Pin13</td><td>EN</td></tr> <tr> <td>Pin6</td><td>GND</td><td>Pin14</td><td>SP</td></tr> <tr> <td>Pin7</td><td>HA</td><td>Pin15</td><td>+5V, Output</td></tr> <tr> <td>Pin8</td><td>HB</td><td></td><td></td></tr> </table>	Pin1	POWER +	Pin9	HC	Pin2	POWER -	Pin10	+5V, Output	Pin3	MA	Pin11	GND	Pin4	MB	Pin12	F/R	Pin5	MC	Pin13	EN	Pin6	GND	Pin14	SP	Pin7	HA	Pin15	+5V, Output	Pin8	HB			<table border="0"> <tr> <td>Pin1</td><td>POWER +</td><td>Pin10</td><td>+5V, Output</td></tr> <tr> <td>Pin2</td><td>POWER -</td><td>Pin11</td><td>GND</td></tr> <tr> <td>Pin3</td><td>MA</td><td>Pin12</td><td>F/R</td></tr> <tr> <td>Pin4</td><td>MB</td><td>Pin13</td><td>EN</td></tr> <tr> <td>Pin5</td><td>MC</td><td>Pin14</td><td>Brake</td></tr> <tr> <td>Pin6</td><td>GND</td><td>Pin15</td><td>SP</td></tr> <tr> <td>Pin7</td><td>HA</td><td>Pin16</td><td>PG</td></tr> <tr> <td>Pin8</td><td>HB</td><td>Pin17</td><td>ALM</td></tr> <tr> <td>Pin9</td><td>HC</td><td>Pin18</td><td>+5V, Output</td></tr> </table>	Pin1	POWER +	Pin10	+5V, Output	Pin2	POWER -	Pin11	GND	Pin3	MA	Pin12	F/R	Pin4	MB	Pin13	EN	Pin5	MC	Pin14	Brake	Pin6	GND	Pin15	SP	Pin7	HA	Pin16	PG	Pin8	HB	Pin17	ALM	Pin9	HC	Pin18	+5V, Output
Pin1	POWER +	Pin9	HC																																																																			
Pin2	POWER -	Pin10	+5V, Output																																																																			
Pin3	MA	Pin11	GND																																																																			
Pin4	MB	Pin12	F/R																																																																			
Pin5	MC	Pin13	EN																																																																			
Pin6	GND	Pin14	SP																																																																			
Pin7	HA	Pin15	+5V, Output																																																																			
Pin8	HB																																																																					
Pin1	POWER +	Pin10	+5V, Output																																																																			
Pin2	POWER -	Pin11	GND																																																																			
Pin3	MA	Pin12	F/R																																																																			
Pin4	MB	Pin13	EN																																																																			
Pin5	MC	Pin14	Brake																																																																			
Pin6	GND	Pin15	SP																																																																			
Pin7	HA	Pin16	PG																																																																			
Pin8	HB	Pin17	ALM																																																																			
Pin9	HC	Pin18	+5V, Output																																																																			