



	D-EC 3039	D-EC 4966																																																																
<b>Operating Mode</b>	With Hall sensor, 10-30V, Max. Current 2A Speed controller, Open loop Overload protection Stall protection Sensor error protection	With Hall sensor, 8-35V, Max. Current 4A Speed controller, Open loop Overload protection Stall protection Sensor error protection																																																																
<b>Electrical Data</b>																																																																		
1 DC motor up to	60W	150W																																																																
2 Operating Voltage Vcc	10-30 VDC	10-35 VDC																																																																
3 Max.output current	5A . <60S	7A . <30S																																																																
4 Continuous output current	2A	4A																																																																
5 Pulse width modulation frequency	20KHz	20KHz																																																																
6 Sampling rate PI current controller	20KHz	20KHz																																																																
7 Sampling rate PI speed controller	2KHz	2KHz																																																																
8 Efficiency	92%	95%																																																																
<b>Input</b>																																																																		
9 Hall sensor signal	HA,HB,HC	HA,HB,HC																																																																
10 Digital inputs	4	3																																																																
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 Status Indicators	Operation: LED light/Blink at 1 HZ; Error: LED Blink at 20Hz																																																																	
<b>Output</b>																																																																		
16 Hall sensor supply voltage	+5...7 VDC	+5...7 VDC																																																																
17 Hall & Digital signal ground	GND	GND																																																																
<b>Environmental Conditions</b>																																																																		
18 Temperature - Operation	-30....+45°C	-30....+45°C																																																																
19 Temperature - Storage	-40....+85°C	-40....+85°C																																																																
<b>Mechanical Data</b>																																																																		
20 Weight	Approx. 15 g	Approx. 90 g																																																																
21 Dimensions (L x W x H)	30 x 39 x 14mm	55 x 86 x 21mm																																																																
22 Mounting holes	for screws M2	for screws M3																																																																
23 Connections																																																																		
	<table border="0"> <tr> <td>Pin9</td><td>BK</td><td>Pin1</td><td>+5V, Output</td></tr> <tr> <td>Pin10</td><td>+5V, Output</td><td>Pin2</td><td>HA</td></tr> <tr> <td>Pin11</td><td>FR</td><td>Pin3</td><td>HB</td></tr> <tr> <td>Pin12</td><td>SP</td><td>Pin4</td><td>HC</td></tr> <tr> <td>Pin13</td><td>ON</td><td>Pin5</td><td>GND</td></tr> <tr> <td>Pin14</td><td>GND</td><td>Pin6</td><td>MA</td></tr> <tr> <td>Pin15</td><td>POWER +</td><td>Pin7</td><td>MB</td></tr> <tr> <td>Pin16</td><td>POWER -</td><td>Pin8</td><td>MC</td></tr> </table>	Pin9	BK	Pin1	+5V, Output	Pin10	+5V, Output	Pin2	HA	Pin11	FR	Pin3	HB	Pin12	SP	Pin4	HC	Pin13	ON	Pin5	GND	Pin14	GND	Pin6	MA	Pin15	POWER +	Pin7	MB	Pin16	POWER -	Pin8	MC	<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>FR</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	FR	Pin5	MC	Pin13	EN	Pin6	GND	Pin14	SP	Pin7	HA	Pin15	+5V, Output	Pin8	HB		
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