Operating Mode	VSC 3003SL	
	10-28V, Max.Current 3 A	
	Speed controller compatible with sensor and sensorless	
	Over voltage protection	
	Over current protecion	
	Over temperature protect `	
	Stall protection	
Electrical Data		
1 DC motor up to	100W	
2 Operating Voltage Vcc	10-30VDC	
3 Max.output current	10A(<20S)	
4 Continuous output current	3A	
5 Pulse width modulation frequency	20KHZ	
6 Sampling rate PI current controller	20KHZ	
7 Max.Speed (1 pole pair)	50000rpm	
8 Efficiency	95%	
Inputs/Outputs		
9 Hall sensor signal	HA,HB,HC	
10 Digital inputs/outputs	4	
11 Set value "SP"	Set value speed 0...+5.0V(4096 steps)	
12 Enable "EN"	Enable 0.0V	
13 Direction "F/R"	Direction 0.0V	
14 Brake "BK"	---	
15 Speed Feedback "PG"	OC output(30V/10mA)	
16 Alarm Ouput "ALARM"	OC output(30V/10mA)	
17 Status Indicators	Ready:LED Blink at 2Hz;Error:LED blink at 10Hz	
18 Hall sensor supply voltage	+5 VDC	
19 Hall & Digital signal ground	GND	
Environmental Conditions		
20 Temperature - Operation	-30....+45℃	
21 Temperature - Storage	-40....+85℃	
Mechanical Data		
22 Weight	approx.18.6g	
23 Dimensions (L x W x H)	55 x 40 x 12.3mm	
24 Mounting holes	for screws M3	
25 Connections		
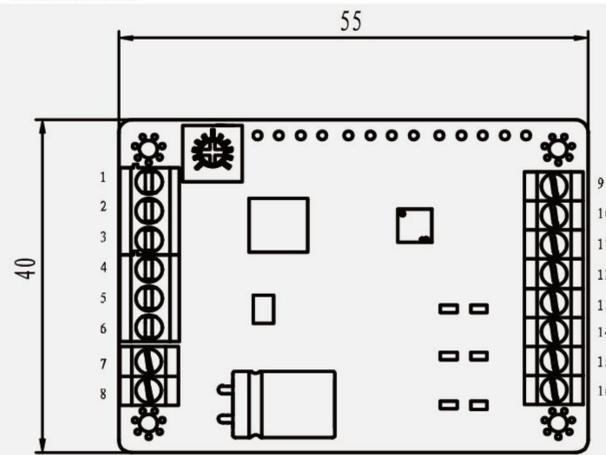
Pin1	GND	Pin9	3.3V
Pin2	ALM	Pin10	HA
Pin3	FG	Pin11	HB
Pin4	FR	Pin12	HC
Pin5	EN	Pin13	GND
Pin6	SP	Pin14	MA
Pin7	POWER +	Pin15	MB
Pin8	POWER -	Pin16	MC