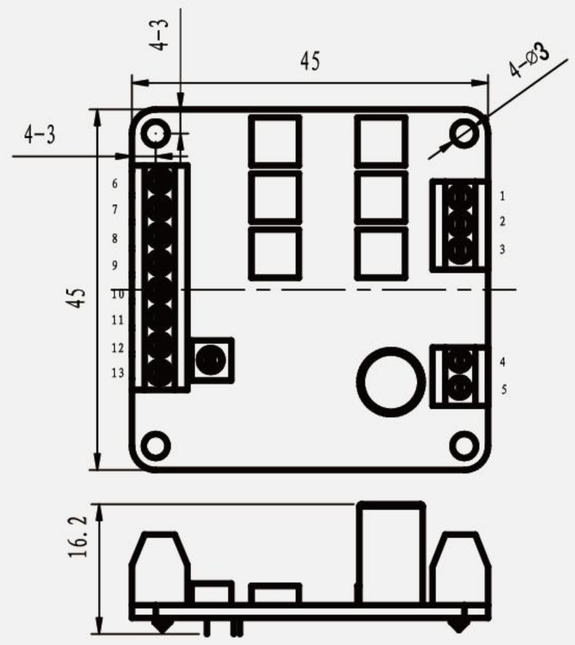
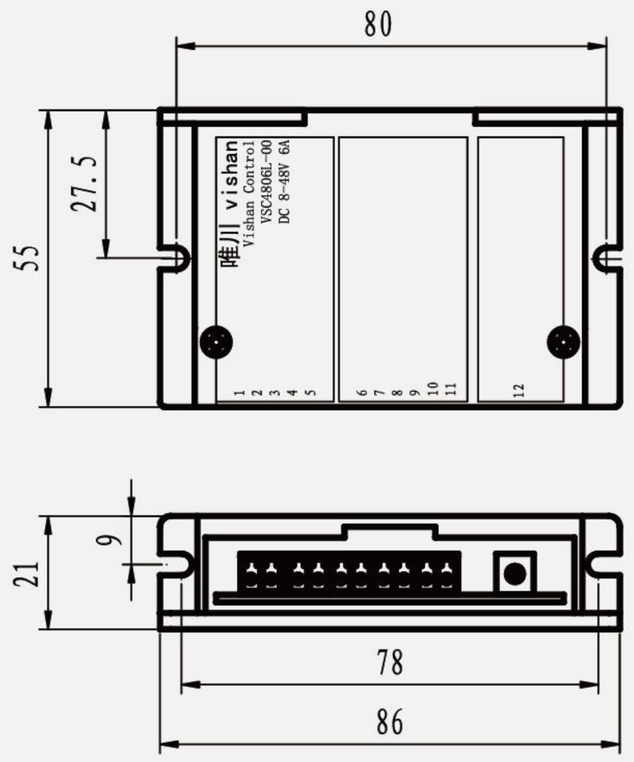
		VSC 3003L	VSC 4806L
Operating Mode		8-30VDC, Max. Current 3A Speed controller without sensor, Open loop Overload protection Stall protection CW/CCW control	8-48VDC, Max. Current 6A Speed controller without sensor, Open loop Overload protection Stall protection CW/CCW control
Electrical Data			
1	DC motors 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 "RV"	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 ouput(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℃	-30....+45℃
17	Temperature - Storage	-40....+85℃	-40....+85℃
Mechanical Data			
18	Weight	Approx. 20 g	Approx. 90 g
19	Dimensisons (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		

Pin6	PG	Pin1	MC	Pin1	POWER +	Pin6	GND
Pin7	SP	Pin2	MB	Pin2	POWER -	Pin7	PG
Pin8	GND	Pin3	MA	Pin3	MA	Pin8	SP
Pin9	GND	Pin4	POWER -	Pin4	MB	Pin9	F/R
Pin10	+5V, Output	Pin5	POWER +	Pin5	MC	Pin10	EN
Pin11	EN					Pin11	+5V, Output
Pin12	F/R						
Pin13	BK						