



Smart solutions.  
Strong relationships.

# Vibrant, Compact & Dynamic AC Drives

## Emotron VSB Series

Simple to use & suitable for standard applications



■ 0.75kW – 5.5kW / 1HP – 7.5HP

■ 50°C Ambient Temperature

■ IP20 Protection Class

We put all our energy  
into saving yours!

# Vibrant, Simple & Suitable for Standard Applications

CG Drives & Automation presents you with another series which will solve your entire standard requirement in this fast evolving world of automation.

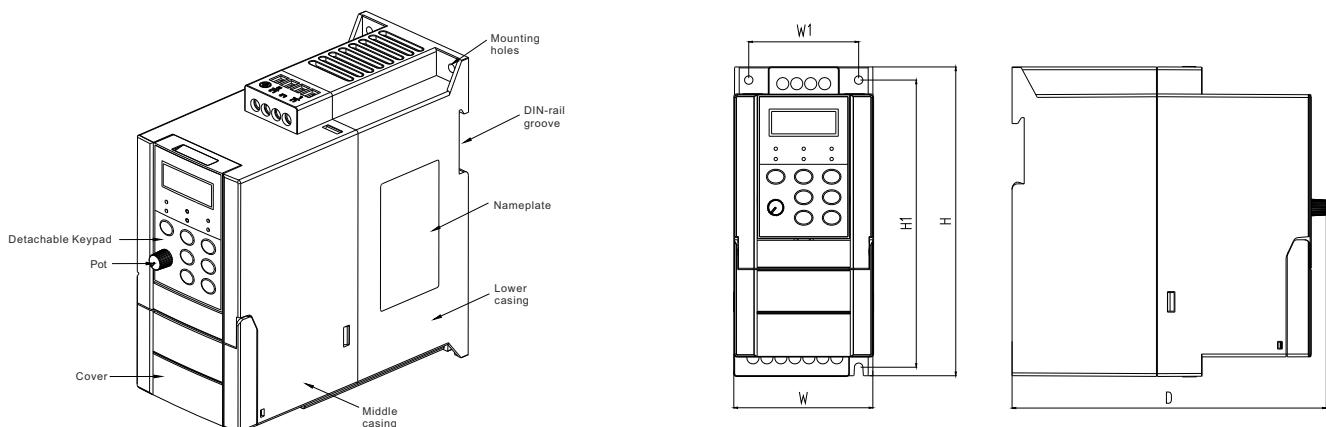
VSB will not only save energy but is also easy to operate, a quick fix for commissioning. VSB is also cost effective, safe & energy efficient solution for the demanding industrial environment.

CG offers the drives which are reliable & productive with exceptional performance as expected from Emotron series and is suitable for applications like Fan, Pump, Blower, Compressor etc.



## Emotron VSB – 3 Phase, 380-480V with dimensional details

Model	Heavy Duty (150%, 1 min, every 10 min)		Installation Dimensions (mm)					Weight kg
	Power	Current	H	W	D	H1	W1	
	kW	A						
VSB48-003-20CNB	0.75	2.5	166	75	168	154	59	1.4
VSB48-004-20CNB	1.5	3.8						
VSB48-006-20CNB	2.2	5.5	188	85	172	175	69	2
VSB48-009-20CNB	3.7	9						



# Technical Details

<b>Input Power</b>			
Voltage	Three phase AC, 380V / 400V / 415V / 440V / 460 / 480V.	Dynamic braking unit	In-built.
Frequency	50Hz/60Hz, Tolerance ± 5%.	Dynamic braking capacity	Brake unit threshold voltage: 400V input: 650V~750V. 200V input: 325V~375V. service time: 0.0~3100.0s.
Voltage variation	Continuous fluctuation ±10%. Short fluctuation - 15% to 10% (323V-528V). Voltage out-of-balance <3%. Distortion rate as per the requirements of IEC61800-2.		
<b>Output Power</b>		<b>Input/Output Terminals</b>	
Voltage	3-phase: 0 - rated input voltage, error< ± 3%.	Digital inputs	4
Output frequency range	0 - 600Hz.	Digital output	1
Frequency resolution	0.01Hz.	Analogue input	1 (Current / Voltage)
		Analogue output	1 (Current / Voltage)
		Relay output	1
<b>Overload Capacity</b>		<b>Environment</b>	
Normal duty	120% 60 seconds / 600 seconds.	Enclosure	IP20
Heavy duty	150% 60 seconds / 600 seconds.	Ambient temperature	-10°C to 50°C
Higher overload	180% 10 seconds, 200% 0.5 seconds.	Relative humidity	0 - 95%, no condensation.
Starting torque	0.5Hz: 180% (V/f control, sensorless vector control).	Vibration	Less than 5.9 m/s <sup>2</sup> (0.6g)
		Storage temperature	-40°C to +70°C
		Altitude	0 - 2000m deration above 1000 meters.
<b>Control Characteristics</b>		<b>Communication Interface</b>	
Acceleration time setting	0.00 - 60000 seconds.	Default Interface	Modbus 485
Deceleration time setting	0.00 - 60000 seconds.	485 differential signal	4800/9600/19200/38400/57600/115200 bps.
Switching frequency	0.7kHz - 12kHz.	Max. Dist	500 mts Std network cable.
Control methods	V/f control, sensorless vector control.		
Range of speed regulation	1:100 (V/f, vector control).		
Speed accuracy	±0.5% (V/f control). ±0.2% (sensorless vector control).		
<b>Basic function</b>		<b>Terminal and wiring details</b>	
Frequency setting source	Digital setting + keypad ▲ / ▼. Digital setting + terminal UP/DOWN. Potentiometer. Communication. Analogue setting (AI).		
Motor starting methods	Started from starting frequency. DC braking and then started.		
Motor stopped methods	Ramp to stop. Coast to stop. Ramp stop + DC brake.		

For more information:

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