



Smart connections.

Data sheet VERTIMO

TECHNICAL DATA FOR VERTIMO - "Smart connections." on four levels



The VERTIMO

- Decentralised device for mounting on wall
- High protection class IP66 / NEMA 4X
- 4 sizes with power of between 0.37 kW and 22.0 kW
- Fan-free design up to 7.5 kW
- Integrated class C1 EMC filter (optional)*

Communication

Modbus and CANopen on board

Operation and observation

- Quick and easy commissioning
- Intuitive key control with LED display
- Application macros for industrial, pump and fan operations
- With integrated potentiometer, direction of rotation switch and switch disconnector as options
- PC Software
- Memory stick for cloning parameter sets (accessory)

Control process

■ IE1, IE2, IE3, IE4, IE5: for asynchronous motors and synchronous motors

	Size		230 V				400 V									
			Α		В	Α		В		С			D			
Electrical data	Recommended motor rating** [KW]	0.37	0.75	1.5	2.2	0.75	1.5	2.2	4.0	5.5	7.5	11.0	15.0	18.5	22.0	
	Supply voltage [V]	1 x 200 V AC -10% 240 V AC +10% 3 x 380 V AC -10%480 V AC +10%														
	Grid frequency [Hz]	48 Hz62 Hz														
	Network forms	TN / TT														
	Line current [A]	3.7	7.5	12.9	19.2	3.5	5.6	7.5	11.5	17.2	21.2	27.5	34.2	44.1	51.9	
	Rated current output eff. [IN at 8 kHz]	2.3	4.3	7.0	10.5	2.2	4.1	5.8	9.5	14.0	18.0	24.0	30.0	39.0	46.0	
	Min. brake resistance $[\Omega]$	-	-	100***	50	-	250***	200	120	100	80	50	30	22	22	
	Overload		150 % for 60 s / 175 % for 2.5 s													
	Switching frequency	4 kHz - 32 kHz (default settings 8 kHz)														
	Output frequency	0 Hz – 500 Hz														
	Mains cycles of operation / restart					120 pe	r hour r	maximu	ım, distı	ributed	evenly					
Functions	Protective function	Overvoltage and undervoltage, I ² t restriction, short circuit, motor and drive controller temperature, stall prevention														
	Software functions	Process control (PI controller), fixed frequencies, flying restart, motor current limit, application macros for industrial, pump and fan operations														
Environmental Mechanical data conditions	Dimensions [L x W x H] mm	232x161x1		179	257 x 188 x 187	232 x 161 x 179		257 x 188 x 187		310 x 211 x 252		252	380 x 211 x 272			
	Weight [kg]	2.1			3.0	2.1		3	3.0 5.0		5.0	7.0				
	Protection class [IPxy]	IP 66 / NEMA 4X														
	Cooling	Passive cooling Active of									cooling					
	Ambient temperature [°C]	-10 °C (non-condensing) to + 40 °C (without derating)														
	Storage temperature	-40 °C+ 60 °C														
	Altitude of the installation location	up to 2000 m above sea level / over 1000 m with reduced performance (1 % per 100 m)														
	Relative air humidity	≤ 95 %, condensation not permitted.														
	EMC (DIN-EN-61800-3)	C1 (optional)*														
Interfaces	I/O interfaces	2 DI / 2 AI can be configured to 2 DI / 1 AO can be configured to 1 DO / 1 relay														
	Controls	Integrated control unit with LED display, optional with integrated potentiometer, direction of rotation switch and switch disconnector														
	Internal power supply	24 V DC, 100 mA / 10 V DC, 10 mA														
	Fieldbus integrated	Modbus RTU / CANopen														
	Certificates and conformity					CE	c(UD US	Rol 2011/6	/ HS _{6/EU}		.				

Technical data for VERTIMO (subject to technical changes)

^{*} See operating manual ** Recommended motor rating (4-pole asynchronous motor) is given based on the 400 V AC or 230 V AC supply voltage.