

RVIT

Inverter



Product

RVIT

Programming

Keypad: Built-in keypad as standard, remote keypad optional.

Display: 7-segment LED display.

PC: OptiTools Studio

RATED INPUT VALUES

Power supply:

- 100-115 V \pm 10%
- 200-240 V \pm 10%
- 380-480 V \pm 10%.

Frequency: 48-62 Hz

Power factor: > 0,98.

Phase imbalance: max. 3%.

Input current: < rated current.

Power cycles: 120 cycles/hour well spaced.

RATED OUTPUT VALUES

Output power:

- 110 V 1 Ph Input: 0.5-1.5 HP (230 V 3 Ph Output)
- 230 V 1 Ph Input: 0,37-4 kW (0,5-5 HP)
- 230 V 3 Ph Input: 0,37-11 kW (0,5-15 HP)
- 400 V 3 Ph Input: 0,75-22 kW
- 460 V 3 Ph Input: 1-30 HP.

Overload capacity:

- 150% for 60 seconds
- 175% for 2.5 seconds.

Output frequency: 0-500 Hz, resolution 0.1 Hz.

Typical efficiency: > 98%.

ENVIRONMENTAL CONDITIONS

Storage temperature: from -40 to +60 °C.

Operating: from -10 to +50 °C.

Altitude:

- from 0 to 1000 m without derating
- up to 2000 m max (UL approval)
- up to 4000 m max (non-UL).

Maximum humidity: 95%, non-condensing.

Vibration: compliant with EN61800-5-1.

TECHNICAL CHARACTERISTICS AND DIMENSIONS

Degree protection	Size	Dimensions (mm)			Wt. kg	Assembly
		Height	Width	Depth		
IP20	1	173	83	123	1	4 x M5
	2	221	110	150	1,7	4 x M5
	3	261	131	175	3,2	4 x M5
	4	420	171	212	9,1	4 x M8
IP66	1	232	161	179	3,1	4 x M4
	2	257	188	187	4,1	4 x M4
	3	310	210,5	252	7,6	4 x M4

DESIGN STANDARDS

Compliant with the Low Voltage Directive	Speed variation devices, EMC compliance
Compliant with the EMC Directive	2004/108/EC 4 Cat. C1 according to EN61800-3:200
Compliant with the Machinery Directive	2006/42/EC
Standards compliance	CE, UL, C-Tick
Protection degrees	IP20, IP66



CONTROL SPECIFICATIONS

Control type	Open loop Vector Speed Control
	PM motor Vector Control
	BLDC motor control
	Synchronous reluctance motor control
PWM Frequency	4-32 kHz effective
Stop Mode	Ramp: adjustable from 0.1 to 600 seconds
	Free deceleration
Braking	Motor Flux Braking
	Integrated Braking Unit (not for size 1)
Frequency skip	One selectable point

FIELDBUS

CANopen	125-1000 kbps
Modbus RTU	9.6-115.2 kbps selectable

I/O SPECIFICATIONS

Power supply	100 - 115 V \pm 10%
	200 - 240 V \pm 10%
	380 - 480 V \pm 10%
Programmable inputs	4 total of which: 2 digital, 2 selectable analogue/digital
Digital inputs	8-30 Volt DC, internal or external power supply
	Response time < 4 ms
Analogue inputs	Resolution: 12 bits
	Response time: < 4 ms
	Accuracy: \pm 2% full scale
	Scaling and Offset adjustment
Programmable outputs	2 Total of which 1 analogue/digital
Output relay	Maximum voltage: 250 VAC, 30 VDC
	Maximum Current: 6A AC, 5A DC
Analogue outputs	From 0 to 10 Volt

CONTROL CHARACTERISTICS

Fire Mode	Bidirectional
	Speed regulation selection (fixed / PI / Analogue / Fieldbus)
PI Control	Internal PI control
	Standby / Sleep Mode

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MAINTENANCE AND DIAGNOSTICS

Error log	Storage of last 4 alarms
	Alarm storage for Diagnostics
Data log	- Output Current
	- Inverter temperature
	- DC Bus Voltage
Display	Operating hours control

Potentiometer RVORK

For electronic motors



Product RVORK
Programming

ENVIRONMENTAL CONDITIONS

RVORK Potentiometer

Resistance 10 kΩ

Wall or recessed mounting

Max ambient temperature 50 °C

Switching contact: 1A / 250V AC - 2.5A / 12V DC

VDE

Protection class IP 44

TECHNICAL CHARACTERISTICS AND DIMENSIONS

Type	A mm	B mm	C mm	D mm	Wt. Kg
RVORK	74	83	66,5	66,5	0,2

All images are only indicative of the product type and may differ from the actual article.