Vector frequency inv. DV6 (132 kW; 400 V

DV6-340-132K



Part no.

Article no.

231413

## **Delivery programme**

Rated operational voltage			3 AC 342 - 528 V ± 0 %
Rated operational current	l <sub>e</sub>	А	260
Rated power of motors at 3 AC			
at 400 V, 50 Hz	Р	kW	132
Note for table header			
Detectional surgest with a switching fragment of F III and an ambient terms are true of 10.90			

Rated operational current with a switching frequency of 5 kHz and an ambient temperature of +40  $^{\circ}$ C.

General			
Standards			EN 50178, IEC 61800-3, EN 61800-3 incl. A11
Ambient temperature		°C	
Operating temperature		°C	-10/+40 at rated current $\rm I_e$ without derating, up to 50 at a reduced pulse frequency of 2 kHz and output current reduced to 80 $\%$ $\rm I_e$
Storage, transport	9	°C	
Storage	9	°C	-25 - +70
Shock resistance			Vibrations and shaking, maximum 2.94 $\mbox{m/s}^2\mbox{(0.3 g)}$ at 10 to 55 Hz
Overvoltage category/pollution degree			VDE 0110 Part 2, pollution degree 2
Climatic proofing			Class 3K3 to EN 50178 (not condensing, medium relative humidity 20 - 90 %)
Altitude		m	0 - 1000 m above sea level
Mounting position			Vertically suspended
Free surrounding areas			100 mm above and below, 50 mm on each side
Emitted interference			IEC/EN 61800-3 (EN 55011 group 1 class B)
Interference immunity			IEC/EN 61800-3, industrial environment
Insulation resistance			Overvoltage category III according to VDE 0110
Discharge current to PE		mA	> 3.5 (to EN 50178)
Protection type			IP20 (NEMA 1)
Protection against direct contact			Finger and back-of-hand proof
Protective isolation against switching circuitry			
Insulation			Safe isolation from the mains. Double base insulation (to EN 50178)
Protective measures			Overcurrent, earth fault, overvoltage, undervoltage, overload, overtemperature, electronic overload protection: l <sup>2</sup> t-monitoring and PTC input (thermistor or thermostat)
Power loss			
at 100 % I <sub>e</sub>		W	
At 115 V		W	6500
at 70 % I <sub>e</sub>		W	
At 230 V		W	4500
Efficiency		%	95.1
Dimensions (W x H x D)		mm	480 x 740 x 293.2
Weight		kg	80
Power section			
Rated operating voltage	Ue	V AC	400
Rated voltage	U <sub>e</sub>	V	3 AC 342 - 528 V ± 0 %
Supply frequency	f <sub>LN</sub>	Hz	50/60 (47 -0 %63 +0 %)
Mains current			
U <sub>i</sub> = 3-phase 400 V AC	1	А	286

Alternative DC supply	U <sub>DC</sub>	V	420760
	ODC	DC	420700
Modulation method			
actuation			Sensorless vector control, pulse width modulation (PWM)
Switching frequency			
Operating frequency at inductive load			5 kHz, can be selected between 0.5 and 15 kHz
Output voltage		V	
Rated output voltage		V	3 AC U <sub>e</sub>
Output frequency		Hz	0.550, max. 400
Frequency resolution		Hz	
Frequency		Hz	0.1, with digital setpoint values/maximum frequency/1000 with analog setpoint values
Frequency error limit at 20 C ± 10 K			
Error indication			$\pm 0.01$ % of the maximum frequency with digital setpoint values, $\pm 0.2$ % of the maximum frequency with analog setpoint values
Rated operational current	I <sub>e</sub>	А	260
Permissible overcurrent			150 % for 60 s/200 % for 0.5 s, every 600 s
Torque during start			200 % at 0.5 Hz (sensorless vector control mode)
Apparent power at 400 V		kVA	180.1
Apparent power at 480 V		kVA	216.1
Standard operation at 150 % overload Assigned motor rating (4-pole ASM)			
400 V		kW	132
460 V	Р	HP	175
Control circuit			
Relay			
Protection of an output relay			1 x changeover contact, 230 V AC/0.2 A inductive load/2.5 A resistive load or 24 V DC/0.7 A inductive load/3 A resistive load
Serial interface			RS 422, RS485
Control voltage			
Output setpoint voltage		V	
On 1 signal with $I_e = 0.5 A$		V	+10 DC, 20 mA
Output control voltage		V	+24 DC, 100 mA
Parameterization			3 parameter sets (online/offline parameterization), parameter protection (programmable)
Inputs			
Thermistor input			1 x PTC thermistor, temperature switch
Clockwise rotating field enable (FWD)			1 x +24 V DC (input impedance 4.7 kΩ)
digital (parameters can be defined)			
Digital input count			8 x +24 V DC (input impedance 4.7 kΩ)
analog, 12 bit resolution		Number	
Analog		Number	3 x 0+10 V DC, ±10 V DC (input impedance 10 kΩ), 420 mA (load impedance 100 Ω)
Outputs			
Digital			
Analog output count			5 x 24 V DC Transistor (open-collector, max. 50 mA per output, configurable)
analog (parameters can be defined), 8 bit resolution			
analog (parameters can be defined)			3 x 0+10 V DC (max. 2 mA), 420 mA (max. load resistance 250 $\Omega)$
PWM (parameters can be defined)			1 x 010 V, max. 1.2 mA
Terminal capacities			
Cable lengths			
		mm <sup>2</sup>	2 x 70
		AWG	2 x 2/0
Relay connection			
		mm <sup>2</sup>	0.141.5
		mm <sup>2</sup> AWG	0.141.5 2616

	mm <sup>2</sup>	0.141.5
	AWG	2616
Notes		

If the frequency inverter is to be installed in a control panel, enclosure or similar installation, the prevalent ambient temperature within these enclosures or control panels is considered to be the ambient temperature T<sub>a</sub>.

All rating data of the power section are based on a switching frequency of 5 kHz (default setting) and an ambient temperature of +40 °C, with operation of a four pole three-phase asynchronous motor.

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Supporting protocol for DeviceNet Safety No   Supporting protocol for INTERBUS No	Max. output at linear load at rated output voltage	kWh	132
Supporting protocol for INTERBUS No	Max. output frequency	Hz	400
	Supporting protocol for DeviceNet Safety		No
Mains voltage from/to V 528	Supporting protocol for INTERBUS		No
	Mains voltage from/to	V	528

Rated output voltage	V	400
Supporting protocol for INTERBUS-Safety		No
Max. output at quadratic load at rated output voltage	kWh	132
Number of HW-interfaces RS422		0
Protection type (IP)		IP20
Application in domestic- and commercial environment permitted		YES
Number of phases output		3
Number of HW-interfaces RS485		1

## Dimensions



## Additional product information (links)

AWA8230-1938 Vector Frequency invertee	r
	AWA8230-1938 Vector Frequency inverter
AWB8230-1415 Vector Frequency Invertee	rs
	AWB8230-1415 Vector Frequency Inverters - Deutsch
	AWB8230-1415 Vector Frequency Inverters - English
	AWB8230-1415 Vector Frequency Inverters - italiano
AWB8230-1450 Vector Frequency Invertee	r Training Guide
	AWB8230-1450 Vector Frequency Inverter Training Guide - Deutsch
	AWB8230-1450 Vector Frequency Inverter Training Guide - English
	AWB8230-1450 Vector Frequency Inverter Training Guide - français
	AWB8230-1450 Vector Frequency Inverter Training Guide - italiano