

OJ Drives®



OJ DV GEN II with Local User Interface

- 0.5 1.1kW
- 208 277V single phase supply
- IM, PM motors
- Wide-range operation
- 2" color touchscreen
- CE, UL, CSA

OJ DV GEN II series

OJ DV GEN II is the upgraded version of our series of dedicated drives for ventilation applications. GEN II drives are fully backwards compatible with the corresponding power variants, which have the exact same mechanical dimensions and the same Modbus and BACnet protocols. GEN II drives offer excellent possibilities for customization.

Design

The flexible installation design lets you mount the drive inside or outside the airflow. OJ DV GEN II is suitable for any system, as it can be configured specifically for your application. Adding option modules and mounting a cooling fan on the OJ DV GEN II further expands the drives' potential.

The OJ DV GEN II removable front cover design allows easy access to the connection compartment and ample space for connecting the option module cables. The cover also facilitates safe mounting on the aluminum frame, ensuring the desired sealing grade.

Local User Interface

The built-in 2" touchscreen with color display lets users carry out basic set-up and local operation. The intuitive interface also gives access to readouts of a wide range of information. All this facilitates easy troubleshooting and swift responses to alarms.

Control

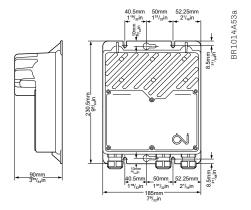
The OJ DV GEN II can be controlled using a 0–10V or a 4–20mA signal and through Modbus RTU or BACnet MS/TP. In addition, the digital input and output interfaces can be used to configure the control method.

Grid immunity

Over Voltage Detection enables these robust drives to cope with most types of grids worldwide, handling disturbances such as notches, spikes and transients.

Built-in EMC filter

The OJ DV GEN II series comes with a fully integrated EMC filter, meeting the emissions and immunity norms for industrial and residential areas according to EN 61800-3 (C1 and C2) and FCC §47 part 15 B. and ICES-003.



Dimensions

Procession		Туре	DV-1005-xxLx	DV-1007-xxLx	DV-1011-xxLx	DV-2011-xxLx	
Management	Frame size			F	11		
Timeser registry	Power size	kW	0.5	0.75	1.1	1.1	
Name	Horsepower	Нр	0.7	1.0	1.5	1.5	
Supplementary Supplementar	Efficiency	%		> \$	94%		
Supply serviced at most land at a cronival and any serviced and serviced at most land at a cronival and any serviced at most land at a cronival and any serviced at most land at a cronival and any serviced at the serviced at most land at a cronival and any serviced at the serviced at most land at a cronival and any serviced at the	Power supply						
Section Sect	Voltage	VAC	1 x 208-230 VAC 50/60 Hz +/-10% 1 x 208-277 VAC 50/60 Hz +/-10%				
Subject Control (1997) 1997 158 and 100 100	Supply current at max. load at nominel	_	2.0	4.4	0.5	0.5	
Motion captage	supply voltage (400V/480V)	A	3.0	4.4	6.5	6.5	
Nominal motion power for high 11 18	Power factor (cos-phi) at max. load			> 0.99 (A	ctive PFC)		
Frequency	Motor output						
Mice colpular values	Nominal motor power (on shaft) *1	kW	0.5	0.8	1.15	1.15	
Mar. supplied content	Frequency	Hz		AC motor: 0-120	PM motor: 0-400		
Production	Max. output voltage	Vrms		3 x 0 - :	250 VAC		
Max. fuse	Max. output current	Arms	2	3.2	4.5	4.5	
Short circuit capacity	Protection						
Short circuit capacity	Max. fuse	I A	18				
Fig. A 3.6 5.3 7.8 7.8 7.8		_	1000			2000	
Motor outsuit					İ		
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Own-vollage protection							
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Operating Interperature	·	_		Current and temperate	ы е очетнови ргосессоп		
Starting temperature		00.05		0000: 5000	/ 40F to 1000F		
Storage temperature							
Protection rating							
Enclosure material		°C/°F					
Plastic Black Front cover is UV resistenty		-					
Weight kg/ba 2.0 kg/A à lbs Mumidity %h 1.0 58 km h non-condensing Surface Corrosion resistant according to EN/ISO 8223 class 4 Air flow / cooling Turbulent air speed of min. 3 m/s or 9.84 ft/s to achieve max. output power at max. ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient temperature. Turbulent air speed below 3m/s or 9.84 ft/s and higher ambient above 21.02 ft/s 00 ft		-					
Humidity							
Surface Corrosion resistant according to EM/ISO 9223 Class 4 Air flow / cooling Turbulent air speed of min. 3 m/s or 8.84ft/s to achieve max. output power max a making the max are minent repeat below 3 m/s or 9.84ft/s and higher ambient temperature might lead to reduced output power. (3 m/s or 9.84ft/s turbulent air speed is equivalent to 6.5 m/s or 21.32ft/s laminar air speed) Finial bus Modbus RTU, BACnet MS/TP Finial bus Modbus RTU, BACnet MS/TP I input O 10 VDO A 2-20 mA PWM Analogue Inputs I output I output I output I output O pen collector, Internal pulliug to 1-24VDC Digital Inputs Digital Output Status ED Digital Output Status ED Status E							
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Digital Output Digital Output Open collector, Internal pullup to +10 VDC or +24 VDC	Digital Inputs						
Digital Output Open collector, Internal pullup to +10 VDC or +24 VDC Status LED Green/yellow/red User interface 2 inch color resistive touch Features Features Technology Sinusoidal back-EMF signal controlled via FOC (Field Oriented Control) Software updating Yes, via serial interface Motor parameters Preprogrammed by OJ or on-site configuration Short-circuit protection Yes Integrated EMC filters Yes Approvals EN/Bs 61800-3 (C1 & C2) / FOC \$47 part 15 B. and ICES-003 LVD EN/Bs 61800-5-1 / UL 61800-5-1 Product standard IEC/Bs 61800 Part 2 North America *2 UL-61800-5-2 / CS22.2.174 Overvoltage category III Pollution degree 2 Hight over See 2000m / 6.580ft Supply earthing system TN /TT /IT RoHS Directive Yes	District Contract						
User interface 2 inch color resistive touch Features Technology Sinusoidal back-EMF signal controlled via FOC (Field Oriented Control) Software updating Yes, via serial interface Motor parameters Preprogrammed by OJ or on-site configuration Short-circuit protection Yes Integrated EMC filters Yes Approvals Fe/Ps 61800-3 (C1 & C2) / FCC § 47 part 15 B. and ICES-003 LVD EN/BS 61800-5-1 / UL 61800-5-1 Product standard IEC/BS 61800 Part 2 North America *2 UL -61800-5-2 / CS22:2.174 Overvoltage category III Pollution degree 2 Hight over See 2000m / 6.580ft Supply earthing system TN / TT / IT RoHS Directive Yes	Digital Output						
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Sinusoidal back-EMF signal controlled via FOC (Field Oriented Control)	Features						
Software updating Yes, via serial interface Motor parameters Preprogrammed by OJ or on-site configuration Short-circuit protection Yes Integrated EMC filters Yes Approvals EMC EN/BS 61800-3 (C1 & C2) / FCC §47 part 15 B. and ICES-003 LVD EN/BS 61800-5-1 / UL 61800-5-1 Product standard IEC, BS 61800 Part 2 North America *2 UL -61800-5-2 / OS22.2.174 Overvoltage category III Pollution degree 2 Hight over See 2000m / 6.560ft Supply earthing system TN / TT / IT RoHS Directive Yes	Technology			Sinusoidal back-EMF signal contro	olled via FOC (Field Oriented Control)		
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