

OJ Drives®



OJ DV 600V series

- 460-600V supply voltage
- cULus Recognised
- Type 4X sealing grade
- With and without external cooling fan
- BACnet MS/TP

The OJ DV series now includes six new variants for use with 600V supply voltage. They have all the durability, flexibility and features familiar from the original DV series – making its benefits available to a wider range of applications worldwide.

Six power variants - same size

Catering to different needs for power, the 600V DV series comprises six variants from 2.4 to 7.5kW. All six come in the same enclosure size for con-venient planning and mounting.

Suitable for all fan systems - different options available

Designed to be very flexible in use, OJ DV drives are suitable for any fan system. A range of optional modules can be added to suit your particular application. When mounting the drive outside the air flow, the drive can also be equipped with an external cooling fan.

BACnet MS/TP

BACnet ensures that information is exchanged in a standardised way between sensors, actuators, and controls in a building. Equipped with BACnet MS/TP the OJ DV can now be part of the building automization. BACnet MS/TP is running on RS-485.

4X sealing grade - down to -40 degrees

The DV series has a Type 4X sealing rating. The Type 4X rating indicates that the drive is suitable for outdoor installation down to -40°C/F – and UV resistant, too.

For voltages between 460 and 600 VAC

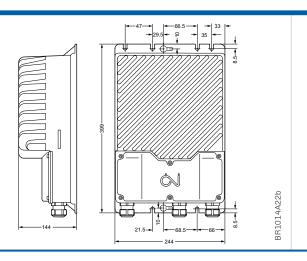
The DV 600V series can be supplied with voltage between 460 and 600 VAC. This, together with the cULus recognition, makes it ideal for North American applications.

Norms and standards

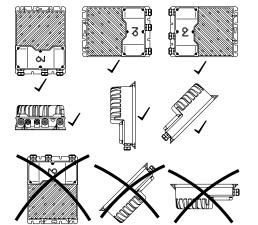
The OJ DV series comes with a fully integrated EMC filter. IE requirements can be easily met using an IM or PM motor together with an OJ-DV.

The OJ DV product series is cULus Recognised according to UL 61800-5-1 and CS22.2.174.

BR1014A05a



Note: Data are valid at: nominal supply voltage, +25°C and sufficient air flow *1: Motor Power Factor = 0.8 and efficiency = 90% / *2: OGF variants: -40°C to +40°C / -40°F to +104°F



	Туре	DV-6024	DV-6030	DV-6040	DV-6055	DV-6065	DV-6075
Enclosure	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			H4			
Power size	kW	2.4	3.0	4.0	5.5	6.5	7.5
Iorsepower	Нр	3.2	4.0	5.4	7.4	8.7	10.0
fficiency	%			>96			
ower supply	1 11						
oltage	VAC			3 x 460 - 600 VAC	50/60 Hz +/-10%		
Supply current at max. load at nominel		0.0 (0.0	1.0.10.5		· · · · · · · · · · · · · · · · · · ·	07.75	11.5 (0.5
supply voltage 460/600V	А	3.9/3.0	4.6/3.5	6.2/4.7	8.4/6.5	9.7/7.5	11.5/8.5
Power factor (cos-phi) at max. load				> 0.9			
Notor output	1						
ominal motor power (on shaft) *1	kW	2.4	3.0	4.0	5.5	6.5	7.5
requency	Hz	AC motor: 0-120 PM motor: 0-400					
Max. output voltage	Vrms	3 x 0 - 0.9 x Vin					
Max. output current	Arms	4.9	5.8	7.7	10.5	16.2	18.3
rotection							
hort circuit capacity	А	3500	3500	3500	3500	5000	5000
LA	А	5.2	6.6	8.7	12.0	14.2	16.4
1otor output		Short-circuit protected between phases					
Motor		Protected by current limit					
verload protection		Current and temperature overload protection					
nvironment							
perating temperature *2	°C/°F	-40°C to +50°C / -40°F to 122°F -40°F to +132°F -40°F to +133°F					
tarting temperature	°C/°F	-40°C to +50°C / -40°F to 122°F					
torage temperature	°C/°F	-40°C to +70°C / -40°F to 158°F					
imensions	WxHxD	220 x 294 x 107 mm / 8.66 x 11.57 x 4.21 inch					
rotection rating		NEMA 4X					
inclosure material		Aluminium					
ront cover		PBT/PC					
Veight	kg	3,9					
lumidity	% rh			10-95% rh, no	n-condensing		
lousing				Corrosion resistant to EN/ISC) 12944-2:1998 Category (4	
		Turbulent air speed o	of min. 3 m/s to achieve ma	ax. output power at max. ambier	at tomponaturo. Turbulant a	ir eneed helow 3m/e and	11.1.1
Air flow / cooling							
			ture might lead to reduc	ed output power. (3m/s turbule			
nterfaces			ture might lead to reduc	ed output power. (3m/s turbule	nt air speed is equivalent to		
nterfaces Modbus RTU			ture might lead to reduc		nt air speed is equivalent to 2, 38.4, 57,6 115.2 Kbaud)		
nterfaces Modbus RTU BACnet MS/TP				ed output power. (3m/s turbule RS485 (baud rate: 9.6, 19.: Baud rate: 9600, 19200, 3 AC: 0 - 127, MAX Master: 1 -12	nt air speed is equivalent to 2, 38.4, 57,6 115.2 Kbaud) 8400, 57600, 115200 kbs 7, Device object ID: 0 - 419	6,5 m/s laminar air spe	
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