



POWER PRECISION CONTROL

THE NEW SIZE 8 RANGE

Now available in Optidrive P2 and Optidrive Eco ranges, combining the innovative features of these products with the ability to control motors rated up to 480 Amps.

It is available as IP20 for control cabinet mounting and as IP55 for direct mounting.

OPTIDRIVE™ Size 8
Up to 250kW / 450HP
380 – 480V



OPTIDRIVE™ Size 8

200 – 250kW / 300 – 400HP
380 – 480V

High Power Drive Module

Optidrive Frame Size 8 extends the power rating capacity of Optidrive P2 and Optidrive Eco products up to 250kW / 400HP.

Combining all the features of the standard products, and providing the ability to control motors with rated current up to 480Amps, Frame Size 8 is available in an IP20 enclosure suitable for control cabinet mounting.

Frame Size 8 comes with a built in EMC Filter to meet Category C3 with an option to upgrade to a High Performance EMC Filter that meets Category C2. The drive also has a built in choke as standard.

A new IP55 enclosure is also available and is designed for direct plant/control room mounting.



kW	HP	Amps
200	300	370
250	400	480

kW Model Code										HP Model Code									
Product Family	Generation	Frame Size	Voltage Code	Power Rating Code	Supply Phases	Power Type	EMC Filter	Brake Transistor	Product Family	Generation	Frame Size	Voltage Code	Power Rating Code	Supply Phases	Power Type	EMC Filter	Brake Transistor		
ODP	- 2	- 8	4	200	- 3	K	#	4	ODP	- 2	- 8	4	300	- 3	H	#	4		
ODP	- 2	- 8	4	250	- 3	K	#	4	ODP	- 2	- 8	4	400	- 3	H	#	4		

380-480V ± 10%
3 Phase Input



kW	HP	Amps
200	300	370
250	400	480

Model Code									
Product Family	Generation	Frame Size	Voltage Code	Capacity	Supply Phases	Power Type	EMC Filter	Quadrant	Enclosure Type
ODV	- 3	- 8	4	3700	- 3	#	1	#	
ODV	- 3	- 8	4	4800	- 3	#	1	#	

380-480V ± 10%
3 Phase Input

# Enclosure	
2-MN	IP20 with TFT display
N-MN	IP55 with TFT display
# EMC Filter	
O	No Internal EMC Filter
F	Internal EMC Filter
R	High Performance EMC Filter

Features:

- Built in brake transistor on Optidrive P2 eliminates the need for external options
- Unique DC Link design with built in choke:
 - Reduces harmonic distortion for a cleaner power supply
 - Improves efficiency saving energy
 - Eliminates the need for capacitor reforming after storage
- Built in multi language text display for easy programming and diagnostics

Options Include

OPT-2-M3500-00 Frame Size 8 Output Choke 500A



Dimensions

Enclosure		IP20	IP55
mm	Height	974	1334
mm	Width	444	444
mm	Depth	423	423
kg	Weight	124.5	TBC

Size 8 Drive Specification

Input Ratings	Supply Voltage	380 – 480V ± 10%	Ambient Conditions	Temperature	Storage: -40 to 60°C Operating: -10 to 50°C		
	Supply Frequency	48 – 62Hz		Altitude	Up to 1000m ASL without derating Up to 4000m maximum		
	Displacement Power Factor	> 0.98		Humidity	95% Max, non condensing		
	Phase Imbalance	3% Maximum allowed		Enclosure	Ingress Protection	IP20 / IP55	
	Inrush Current	< rated current			Programming	Keypad	Built-in keypad as standard Optional remote mountable keypad
	Power Cycles	120 per hour maximum, evenly spaced		Display		Built-in multi language TFT display	
	SCCR Rating	100kA		PC		OptiTools Studio	
	Output Ratings	Output Power		400V 3Ph. Input: 200 & 250kW 460V 3Ph. Input: 300 & 400HP	Standards Compliance	Europe	CE Marked according to the Low Voltage Directive and EMC Directive
		Overload Capacity		P2: 150% for 60 seconds Eco: 110% for 60 seconds		North America	UL, cUL Listed
		Output Frequency		0 – 120Hz, 0.1Hz resolution		Marine	DNV Type Approved
Typical Efficiency		> 97%	Low Voltage Directive	2014/35/EU			
			EMC Directive	2014/30/EU			
			Additional Conformance	EAC, RCM			
		Harmonic Currents	Eco: IEC61000-3-12				