

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 / 400HP
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

Model Code	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 4 250 - 3 K # 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	Brake Transistor
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	144

Size 8 Drive Specification

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