



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 |

| 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 | | |



| 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 | # | # |

Enclosure

2-MN IP20 with TFT display

N-MN IP55 with TFT display

EMC Filter

O No Internal EMC Filter

F Internal EMC Filter

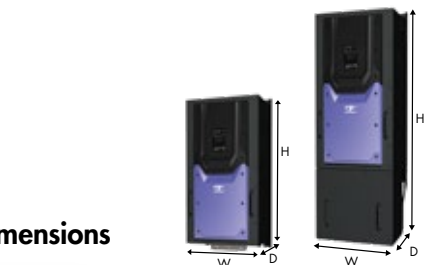
R High Performance EMC Filter

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 | | | | |