

ODE-3-120023-1F1B

Optidrive E3 VFD Datasheet

0.37 kW (0.5 HP), 2.3 A, 200-240 V, 1-3PH

IP66 Outdoor Switched Variable Frequency Drive with EMC Filter



Input Ratings

Supply Voltage	200-240 V
Input Phases	1
Supply Current Continuous	3.7 A
Supply Fuse or MCB (Type B)	10 A

Output Ratings

Motor Output Rating	0.37 kW (0.5 HP)
Output Voltage	0 – Supply Voltage
Output Current	2.3 A

Cable Information

Max Supply Cable Size	8 mm ² (0.01 sq in)
Max Motor Cable Size	8 mm ² (0.01 sq in)
Max Motor Cable Length	100 m (328 ft)

Factory Build Options

EMC Filter	Internal EMC Filter
Brake Transistor	No Internal Brake Transistor
Enclosure	IP66 Outdoor Switched
Display	LED
PCB Coating	-


Dimensions

Size	1
Height	232 mm (9.13 in)
Width	161 mm (6.34 in)
Depth	162 mm (6.38 in)
Weight	2.3 kg (5.07 lbs)
Fixings	4 x M4

Packaged Dimensions

Height	205 mm (8.07 in)
Width	210 mm (8.27 in)
Depth	345 mm (13.58 in)
Weight	2.9 kg (6.39 lbs)



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OPTIDRIVE™ CP²

AC Variable Speed Drive

Powerful Performance

Advanced motor control



0.75kW – 250kW / 1HP – 400HP
200–600V Single & 3 Phase Input

Powerful Performance

World leading control for the latest generation of permanent magnet and standard induction motors

Manufacturing Conveyer Systems Processing Plants Chemical
Pumping Machine Tools Rubber Elevators Cranes



World Leading Motor Control

The Optidrive P2 offers the perfect combination of high performance together with ease of use to allow even the most demanding applications to be tackled easily.

Designed for fast installation and commissioning, Optidrive P2 provides the most cost effective solution for industry.

All Optidrive P2 units provide 150% overload for 60 seconds as standard, ensuring each drive is suitable for Heavy Duty applications, whilst the IP55 enclosed versions ensure the drive is tough enough to survive in industrial environments.

Extensive I/O and communications interface capabilities ensure the drive can be integrated quickly and efficiently into a wide variety of control systems with the minimum commissioning time, ensuring rapid start up. Invertertek's simple parameter structure, and carefully selected factory parameter settings ensure that commissioning time is kept to a minimum.



Compliant with international standards.
Manufactured in the UK.

150% overload for 60 seconds



IP20

Up to 250kW



IP55

Up to 250kW



IP66

Up to 30kW

Advanced Motor Control

Optidrive P2 has been uniquely developed to allow a wide range of different motor types to be used, with only parameter changes being required. This technology allows the same drive to be used in a wide range of applications, allowing OEMs and end user alike to take advantage of the energy saving provided by using the latest motor technologies.

AC Induction Motors

The majority of AC motors in use today around the world are standard induction motors. These motors are relatively low cost, readily available and provide good performance with long service life. With the ever increasing focus on energy efficiency, motor manufacturers have refined and improved their designs in recent years.

Optidrive P2 has been developed to provide optimum control and maximum efficiency when operating with older motors designs, or newer high efficiency designs.

Operation can be in simple V/F control mode or in High Performance Third Generation Vector Mode, which provides up to 200% torque from zero speed without requiring an encoder.

Permanent Magnet AC Motors

Permanent magnet AC motors provide improved efficiency compared to standard induction motors. Using permanent magnets in the motor construction eliminates the need for any magnetising current, reducing electrical losses. PM motors have been used for many years in high performance applications, however this has always required the use of a feedback device, such as a resolver or encoder. Optidrive P2 has been designed to operate with AC PM motors without requiring any feedback device, allowing them to be used for their energy efficiency benefits without incurring extra cost and complexity in applications which do not require position feedback.

Brushless DC Motors

BLDC motors are similar to AC PM motors, however the design requires a slightly different control method to optimise the performance. Optidrive P2 has the flexibility to control this type of motor, requiring only simple parameter changes. This provides much greater flexibility for OEMs, allowing Optidrive P2 to be used in a variety of applications, with various motor types.

Synchronous Reluctance Motors

Synchronous Reluctance Motors (SynRM), not to be confused with Switched Reluctance Motors, share a similar stator construction to standard induction motors, however the rotor is substantially different, in order to improve the overall efficiency of the motor. SynRM motors are ideally suited to variable torque applications.

Optidrive P2 can control synchronous reluctance motors, allowing the energy saving benefits to be realised.

At a Glance...

High performance, excellent usability and flexible to meet the needs of your application

Keyhole
Mounts for fast
installation

Integrated
Keypad &
Display



IP55 / NEMA 12

Output Frequency A dr: 01
37.5 Hz

0.0 A 0.00 kW 225 rpm

F1 Iq F2

⏪ ⏩ ⏴ ⏵

⏶ ⏷ ⏸ ⏹

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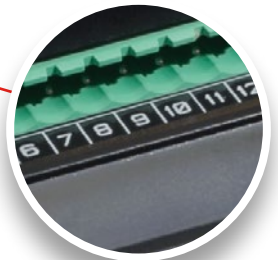
Inverterk
Drives.com

EP²
OPTIDRIVE™



IP55 / NEMA 12

Integrated
EMC Filter



Pluggable Control
Terminals



Integrated Cable
Management



High Quality
Long-life Fans

Integral
Brake
Transistor

Contactor-style Power Wiring Arrangement



Keyhole Mounts for fast installation



DIN Rail Mount

Modbus RTU and CANopen on board as standard



Modbus
CANopen



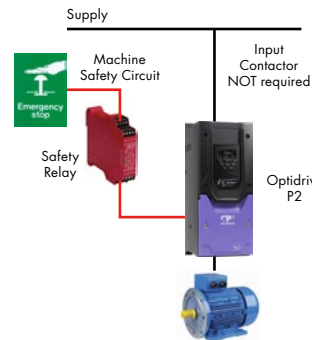
Safe Torque Off (provided as standard)

Optidrive P2 features a safe torque off function to allow simple integration into machine critical safety circuits.

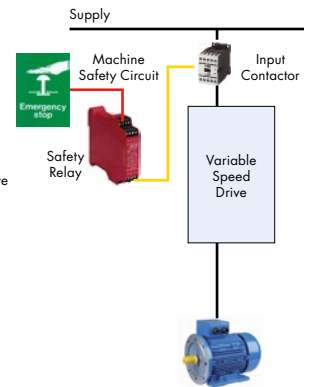
- Simple machine design reduces component costs, saves panel space and minimises installation time
- Faster shut down and reset procedures reduce system maintenance time
- Better safety standard compared to mechanical solution
- Better motor connection. Single cable with no interruption.



With



Without



Applications

High performance, accurate motor control for even the most demanding of applications



Mining & Quarrying

- Feed conveyers
- Crushers
- Cranes

Metals & Processing

- Grinding
- Cutting
- Polishing
- Drilling
- Rolling

Rubber & Plastics

- Extruders
- Moulding
- Mixers
- Winding

Food & Beverage

- Conveyers
- Pumps
- Mixers
- Palletisers

Powerful, versatile and
easy to use

Cranes



Requirements:

- High starting torque
- Smooth motor operation throughout starting and stopping phases
- Motor holding brake control
- Avoidance of load droop and sag
- Regeneration and braking capability during load lowering

Optidrive P2 provides:

- Dedicated Hoist Mode Operation with motor holding brake control algorithm
- Up to 200% torque from zero speed in vector operation without encoder feedback
- Multiple Preset Speed or variable speed operation
- Built in dynamic braking transistor, requires only an external resistor

Compressors



Requirements:

- Precise regulation of speed to ensure a consistent end product
- High starting torque demand in many applications
- Maximum efficiency under all conditions
- Safe operation to prevent accidents and injuries

Optidrive P2 Provides:

- PM Motor control mode to allows open loop operation with Permanent Magnet motors for maximum efficiency
- Maximum starting torque with standard AC motors
- Better than 0.5% speed holding accuracy in Open Loop Vector Operation
- Dedicated Safe Torque Off input complies with EN62061 SIL Level 2 for safe operation

Winding



Requirements:

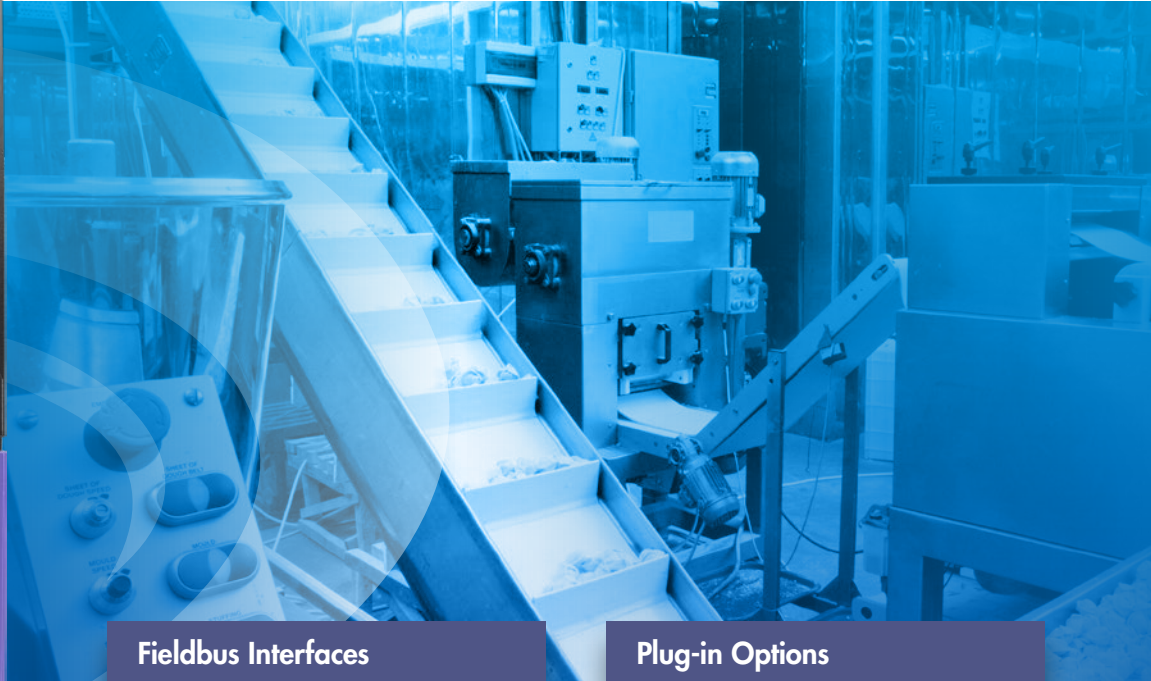
- Precise control of motor torque over a broad speed range
- Accurate control of material tension under all conditions
- Open or closed loop control capability, based on tension feedback or winding diameter
- Web break protection in case of material breakage

Optidrive P2 Provides:

- PID Closed Loop Tension Control with feedback from a load cell or dancer arm
- Open Loop Vector control provides optimum control of the output torque level
- Encoder feedback option allows for a very wide speed range, even down to zero speed
- Safe Torque Off input immediately disables the drive in Emergency conditions

Options & Accessories

Installation options, plug-in modules and commissioning tools



Fieldbus Interfaces

Plug-in Options

Modbus RTU and CANopen on board as standard

For additional communication interfaces or functionality a range of plug-in modules is available:



Profibus DP
OPT-2-PROFB-IN



DeviceNet
OPT-2-DEVNT-IN



Ethernet IP
OPT-2-ETHNT-IN



Modbus TCP
OPT-2-MODIP-IN



Profinet
OPT-2-PFNET-IN



EtherCat
OPT-2-ETCAT-IN



Encoder Feedback
OPT-2-ENCOD-IN (5 Volt)
OPT-2-ENCHT-IN (15 – 30 Volt)

Closed loop encoder feedback, compatible with a wide range of incremental encoders

Extended I/O
OPT-2-EXTIO-IN

- Additional 3 Digital Inputs
- Additional Relay Output

Extended Relay
OPT-2-CASCD-IN

Additional 3 Relay Outputs:

- Relay 3** – Drive Healthy Indication
- Relay 4** – Drive Fault Indication
- Relay 5** – Drive Running Indication

Functions are programmable / adjustable

Installation & Peripheral Options

A range of external EMC Filters, Brake Resistors, Input Chokes and Output Filters are available, to suit all installation requirements

Optistick Smart

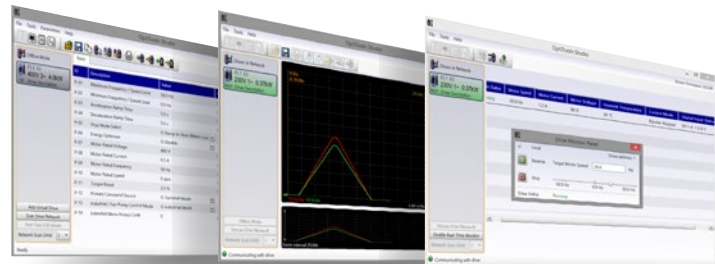


Rapid Commissioning Tool

- Allows copying, backup and restore of drive parameters
- Provides Bluetooth interface to a PC running OptiTools Studio or the OptiTools Mobile app on a smartphone
- Onboard NFC (Near Field Communication) for rapid data transfer

OPT-3-STICK-IN

OptiTools Studio



Powerful PC Software

Drive commissioning and parameter backup

- Real-time parameter editing
- Drive network communication
- Parameter upload, download and storage
- Simple PLC function programming
- Real-time scope function and data logging
- Real-time data monitoring

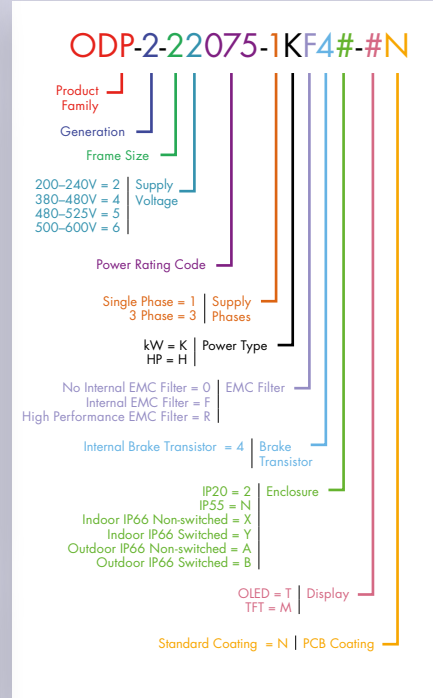
Compatible with:

Windows Vista
Windows 7
Windows 8
Windows 8.1
Windows 10

Replace # in model code with enclosure/display option

	kW	Amps	Frame Size	kW Model Code					IP20 Cabinet Mount	IP55 TFT Display	Indoor IP66 Non Switched	Indoor IP66 Switched	Outdoor IP66 Non Switched	Outdoor IP66 Switched				
				Product Family	Generation	Frame Size	Voltage Code	Power Rating Code							Supply Phases			
200-240V ± 10% 1 Phase Input	0.75	4.3	2	ODP	- 2	- 2	2	075	- 1	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	1.5	7	2	ODP	- 2	- 2	2	150	- 1	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	2.2	10.5	2	ODP	- 2	- 2	2	220	- 1	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
200-240V ± 10% 3 Phase Input	0.75	4.3	2	ODP	- 2	- 2	2	075	- 3	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	1.5	7	2	ODP	- 2	- 2	2	150	- 3	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	2.2	10.5	2	ODP	- 2	- 2	2	220	- 3	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	4	18	3	ODP	- 2	- 3	2	040	- 3	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	5.5	24	3	ODP	- 2	- 3	2	055	- 3	K	F	4	#	2-MN			A-MN	B-MN
	5.5	24	4	ODP	- 2	- 4	2	055	- 3	K	F	4	#		N-MN			
	7.5	30	4	ODP	- 2	- 4	2	075	- 3	K	F	4	#	2-MN	N-MN		A-MN	B-MN
	11	46	4	ODP	- 2	- 4	2	110	- 3	K	F	4	#	2-MN	N-MN		A-MN	B-MN
	15	60	5	ODP	- 2	- 5	2	150	- 3	K	F	4	#	2-MN	N-MN			
	18.5	72	5	ODP	- 2	- 5	2	185	- 3	K	F	4	#	2-MN	N-MN			
	22	90	6	ODP	- 2	- 6	2	022	- 3	K	F	4	#		N-MN			
	22	90	6A	ODP	- 2	- 6	2	022	- 3	K	F	4	#	2-MN				
	30	110	6	ODP	- 2	- 6	2	030	- 3	K	F	4	#		N-MN			
	30	110	6A	ODP	- 2	- 6	2	030	- 3	K	F	4	#	2-MN				
	37	150	6	ODP	- 2	- 6	2	037	- 3	K	F	4	#		N-MN			
37	150	6B	ODP	- 2	- 6	2	037	- 3	K	F	4	#	2-MN					
45	180	6	ODP	- 2	- 6	2	045	- 3	K	F	4	#		N-MN				
45	180	6B	ODP	- 2	- 6	2	045	- 3	K	F	4	#	2-MN					
55	202	7	ODP	- 2	- 7	2	055	- 3	K	F	4	#		N-MN				
75	248	7	ODP	- 2	- 7	2	075	- 3	K	F	4	#		N-MN				
380-480V ± 10% 3 Phase Input	0.75	2.2	2	ODP	- 2	- 2	4	075	- 3	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	1.5	4.1	2	ODP	- 2	- 2	4	150	- 3	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	2.2	5.8	2	ODP	- 2	- 2	4	220	- 3	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	4	9.5	2	ODP	- 2	- 2	4	400	- 3	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	5.5	14	3	ODP	- 2	- 3	4	055	- 3	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	7.5	18	3	ODP	- 2	- 3	4	075	- 3	K	F	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	11	24	3	ODP	- 2	- 3	4	110	- 3	K	F	4	#	2-MN			A-MN	B-MN
	11	24	4	ODP	- 2	- 4	4	110	- 3	K	F	4	#		N-MN			
	15	30	4	ODP	- 2	- 4	4	150	- 3	K	F	4	#	2-MN	N-MN		A-MN	B-MN
	18.5	39	4	ODP	- 2	- 4	4	185	- 3	K	F	4	#	2-MN	N-MN		A-MN	B-MN
	22	46	4	ODP	- 2	- 4	4	220	- 3	K	F	4	#	2-MN	N-MN		A-MN	B-MN
	30	61	5	ODP	- 2	- 5	4	300	- 3	K	F	4	#	2-MN	N-MN			
	37	72	5	ODP	- 2	- 5	4	370	- 3	K	F	4	#	2-MN	N-MN			
	45	90	6	ODP	- 2	- 6	4	045	- 3	K	F	4	#		N-MN			
	45	90	6A	ODP	- 2	- 6	4	045	- 3	K	F	4	#	2-MN				
	55	110	6	ODP	- 2	- 6	4	055	- 3	K	F	4	#		N-MN			
	55	110	6A	ODP	- 2	- 6	4	055	- 3	K	F	4	#	2-MN				
	75	150	6	ODP	- 2	- 6	4	075	- 3	K	F	4	#		N-MN			
75	150	6B	ODP	- 2	- 6	4	075	- 3	K	F	4	#	2-MN					
90	180	6	ODP	- 2	- 6	4	090	- 3	K	F	4	#		N-MN				
90	180	6B	ODP	- 2	- 6	4	090	- 3	K	F	4	#	2-MN					
110	202	6B	ODP	- 2	- 6	4	110	- 3	K	F	4	#	2-MN					
110	202	7	ODP	- 2	- 7	4	110	- 3	K	F	4	#		N-MN				
132	240	7	ODP	- 2	- 7	4	132	- 3	K	F	4	#		N-MN				
160	302	7	ODP	- 2	- 7	4	160	- 3	K	F	4	#		N-MN				
200	370	8	ODP	- 2	- 8	4	200	- 3	K	#	4	#	2-MN	N-MN				
250	480	8	ODP	- 2	- 8	4	250	- 3	K	#	4	#	2-MN	N-MN				
480-525V ± 10% 3 Phase Input	132	185	7	ODP	- 2	- 7	5	132	- 3	K	0	4	#		N-MN			
	150	205	7	ODP	- 2	- 7	5	150	- 3	K	0	4	#		N-MN			
	185	255	7	ODP	- 2	- 7	5	185	- 3	K	0	4	#		N-MN			
	200	275	7	ODP	- 2	- 7	5	200	- 3	K	0	4	#		N-MN			
500-600V ± 10% 3 Phase Input	0.75	2.1	2	ODP	- 2	- 2	6	075	- 3	K	0	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	1.5	3.1	2	ODP	- 2	- 2	6	150	- 3	K	0	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	2.2	4.1	2	ODP	- 2	- 2	6	220	- 3	K	0	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	4	6.5	2	ODP	- 2	- 2	6	400	- 3	K	0	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	5.5	9	2	ODP	- 2	- 2	6	550	- 3	K	0	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	7.5	12	3	ODP	- 2	- 3	6	075	- 3	K	0	4	#	2-MN	X-TN	Y-TN	A-MN	B-MN
	11	17	3	ODP	- 2	- 3	6	110	- 3	K	0	4	#	2-MN			A-MN	B-MN
	15	22	3	ODP	- 2	- 3	6	150	- 3	K	0	4	#	2-MN			A-MN	B-MN
	15	22	4	ODP	- 2	- 4	6	150	- 3	K	0	4	#		N-MN			
	18.5	28	4	ODP	- 2	- 4	6	185	- 3	K	0	4	#	2-MN	N-MN		A-MN	B-MN
	22	34	4	ODP	- 2	- 4	6	220	- 3	K	0	4	#	2-MN	N-MN		A-MN	B-MN
	30	43	4	ODP	- 2	- 4	6	300	- 3	K	0	4	#	2-MN	N-MN		A-MN	B-MN
	37	54	5	ODP	- 2	- 5	6	370	- 3	K	0	4	#	2-MN	N-MN			
	45	65	5	ODP	- 2	- 5	6	450	- 3	K	0	4	#	2-MN	N-MN			
55	78	6	ODP	- 2	- 6	6	055	- 3	K	0	4	#		N-MN				
75	105	6	ODP	- 2	- 6	6	075	- 3	K	0	4	#		N-MN				
90	130	6	ODP	- 2	- 6	6	090	- 3	K	0	4	#		N-MN				
110	150	6	ODP	- 2	- 6	6	110	- 3	K	0	4	#		N-MN				

Model Code Guide



EMC Filter

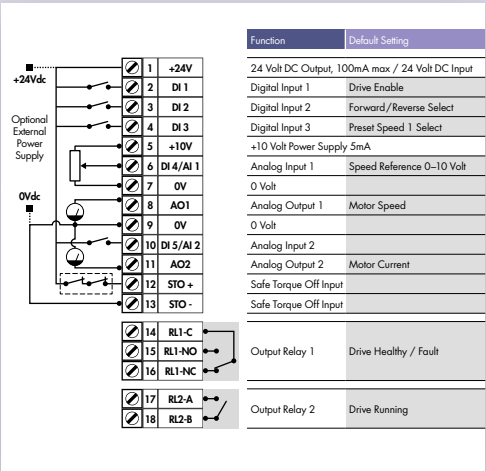
- O** No Internal EMC Filter
- F** Internal EMC Filter
- R** High Performance EMC Filter

kW Models: Factory Settings
 Motor Rated Frequency: 50Hz
 Motor Rated Voltage: 30/400/575V

Drive Specification

Input Ratings	Supply Voltage	200 – 240V ± 10% 380 – 480V ± 10% 500 – 600V ± 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		
Output Ratings	Output Power	230V 1Ph. Input: 0.75–2.2kW (1–3HP)		
		230V 3Ph. Input: 0.75–75kW (1–100HP)		
		400V 3Ph. Input: 0.75–250kW		
		460V 3Ph. Input: 1–400HP		
		575V 3Ph. Input: 0.75–110kW (1–150HP)		
	Overload Capacity	150% for 60 seconds		
	Output Frequency	0 – 500Hz, 0.1Hz resolution		
	Acceleration Time	0.01 – 600 seconds		
Ambient Conditions	Temperature	Storage: –40 to 60°C Operating: –10 to 50°C		
	Altitude	Up to 1000m ASL without derating Up to 2000m maximum UL Approved Up to 4000m maximum (non UL)		
	Humidity	95% Max, non condensing		
	Vibration	Conforms to IEC 60068-2-6 Sinusoidal Vibration 10 – 57Hz @ 0.075mm Pk 57 – 150Hz @ 1g Pk		
Enclosure	Ingress Protection	IP20, IP55, IP66		
	Programming	Keypad	Built-in keypad as standard Optional remote mountable keypad	
Display		Built-in multi language text display PC OptiTools Studio		
Control Specification	Control Method	V/F Voltage Vector Energy Optimised V/F 3GV Sensorless Vector Speed Control 3GV Sensorless Vector Torque Control Closed Loop (Encoder) Speed Control Closed Loop (Encoder) Torque Control PM Vector Control BLDC Control Synchronous Reluctance		
		PWM Frequency	4–32kHz Effective	
		Stopping Mode	Ramp to Stop: User Adjustable 0.01 – 600 secs Coast to Stop	
		Braking	Motor Flux Braking Built-in Braking Transistor	
		Skip Frequency	Single point, user adjustable	
	Setpoint Control	Analog Signal	0 to 10 Volts 10 to 0 Volts –10 to +10 Volts 0 to 20mA 20 to 0mA 4 to 20mA 20 to 4mA PTC	
			Digital	Motorised Potentiometer (Keypad & Terminal) Modbus RTU CANopen
			Fieldbus Connectivity	Built-in CANopen 125 – 1000kbps Modbus RTU 9.6 – 115.2 kbps selectable 8N1, 8N2, 8E1, 8O1 Optional Other PROFINET DP (DPV1) PROFINET IO DeviceNet EtherNet/IP EtherCAT Modbus TCP
			I/O Specification	Power Supply 24 Volt DC, 100mA, Short Circuit Protected 10 Volt DC, 10mA for Potentiometer
		Programmable Inputs	5 Total as standard (Optional additional 3) 3 Digital (Optional additional 3) 2 Analog / Digital Selectable 5 Digital With CAN IO Option	
Digital Inputs	Opto- Isolated 8 – 30 Volt DC, internal or external supply Response time < 4ms			
Analog Inputs	Resolution: 12 bits Response time: < 4ms Accuracy: < 1% full scale Parameter adjustable scaling and offset			
PTC Input	Motor PTC / Thermistor Input Trip Level : 3kΩ			
Programmable Outputs	7 Total (Optional additional 3) 2 Analog / Digital 2 Relays (Optional additional 3) 3 With CAN IO Option Module			
Relay Outputs	Maximum Voltage: 250 VAC, 30 VDC Switching Current Capacity: 5A AC, 5A DC			
Analog Outputs	0 to 10 Volt 0 to 20mA 4 to 20mA			

Connection Diagram



NOT TO SCALE

Size	IP20						IP66			IP55					
	2	3	4	5	6A	6B	8	2	3	4	4	5	6	7	8
mm Height	221	261	418	486	614	726	974	257	310	360	450	540	865	1280	1334
mm Width	110	131	172	233	286	330	444	188	211	240	171	235	330	330	444
mm Depth	185	205	240	260	320	320	423	172	235	271	252	270	332	358	423
kg Weight	1.8	3.5	9.2	18.1	32	43	124.5	3.5	6.6	9.5	11.5	23	55	89	TBC

Invertek Drives Ltd is dedicated to the design, manufacture and marketing of electronic variable speed drives. The state of the art UK headquarters houses specialist facilities for research & development, manufacturing and global marketing. The company pledges to implement and operate the ISO 14001 Environmental Management System to enhance environmental performance.

All company operations are accredited to the exacting customer focused ISO 9001:2008 quality standard. The company's products are sold globally in over 80 different countries. Invertek Drives' unique and innovative drives are designed for ease of use and meet with recognised international design standards.



UK Headquarters, Welshpool

Global Drive Solutions

Invertek Drives operate at the heart of automated systems around the world



Crane Control
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UK machine tool supplier specifies Optidrive



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Optidrive P2 User Guide

Scan to download or visit the Invertek Drives website

www.invertekdrives.com/variable-frequency-drives/optidrive-p2

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