



with Invertek Drives  
the revolution starts here!

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the  
ultimate  
drive for  
harsh  
environments



**OPTIDRIVE™**  
ENCLOSED IP55 / NEMA 12



# i55 OPTIDRIVE™



## ENCLOSED IP55 / NEMA 12 OPTIDRIVE

Easy to use, low power,  
high reliability

AC Variable Speed Drive 0.37- 4.0kW

The ultimate drive for harsh environments. The IP55 / NEMA 12 enclosure drive has been designed to expand the success of the Optidrive E and Optidrive Plus 3GV product range.

AVAILABLE IN SWITCHED OR NON-SWITCHED ENCLOSURES

### Ratings explained:

#### IP55

The IP55 rating means this unit has a protection level of five against solid-body ingress, and a protection level of five against the ingress of water. Five is the second-highest protection level against solid bodies, meaning the unit is protected against dust ingress to the point of disallowing harmful deposits. Protection against water ingress goes up to level eight, and a five means this unit will be protected against the effects of low-pressure jets of water from any direction.

#### NEMA 12

Type 12 enclosures are intended for industrial indoor use primarily to provide a degree of protection against dust, falling dirt, and dripping noncorrosive liquids.

### Key Benefits

- Wash down duty IP55/NEMA 12
- Wall mountable
- Resists low-pressure water, dust, dirt and chemicals
- Rugged industrial 40°C ambient rating for hot and tough applications
- Conduit cable entry
- Switched or non switched
- Infra red capability
- Keypad Control
- Integral RFI filter option
- Small mechanical size



### Industry Sectors

- Food Processing
- Bottling
- Pumping
- Chemical
- Waste Water
- HVAC



### Switched Units

- Local Power Isolator
- Local Potentiometer for speed control
- Drive Fwd/Rev switch



UL PENDING

## ELECTRICAL DATA

### OPTIDRIVE E & EF (INTEGRAL RFI FILTER) SIZE 1

(-I Unswitched, -IS Switched)

Model	ODE/ ODEF-xxxxx-IN-I55 ODE/ ODEF-xxxxx-IN-I55S	12037	12075	12150	14075	14150
Motor output rating	kW	0.37	0.75	1.5	0.75	1.5
Model	ODE/ ODEF-xxxxx-USA-I55 ODE/ ODEF-xxxxx-USA-I55S	12005	12010	12020	14010	14020
Motor output rating	HP	0.5	1.0	2.0	1.0	2.0
Supply voltage/ phases	V +/- 10%	220-240/ 1Ø			380-480/ 3Ø	
Supply fuse or MCB rating	A	10	10	20	5	10
Output voltage/ phases	V	0-240/ 3Ø			0-480/ 3Ø	
Output current	A	2.3	4.3	7.0	2.2	4.1
Max motor cable length	m	25			25	

### OPTIDRIVE E & EF (INTEGRAL RFI FILTER) SIZE 2

(-I Unswitched, -IS Switched)

Model	ODE/ ODEF-xxxxx-IN-I55 ODE/ ODEF-xxxxx-IN-I55S	22220	24220	24400
Motor output rating	kW	2.2	2.2	4
Model	ODE/ ODEF-xxxxx-USA-I55 ODE/ ODEF-xxxxx-USA-I55S	22030	24030	24050
Motor output rating	HP	3.0	3.0	5.0
Supply voltage/ phases	V +/- 10%	220-240/ 1Ø	380-480/ 3Ø	
Supply fuse or MCB rating	A	30	10	16
Output voltage/ phases	V +/- 10%	0-240/ 3Ø	0-480/ 3Ø	
Output current	A	10.5	5.8	9.5
Max motor cable length	m	100		



### OPTIDRIVE PLUS 3<sup>GV</sup> SIZE 1

(-I Unswitched, -IS Switched)

Model	ODP -xxxxx-IN-I55 ODP -xxxxx-IN-I55S	12037	12075	12150
Motor output rating	kW	0.37	0.75	1.5
Model	ODP -xxxxx-USA-I55 ODP -xxxxx-USA-I55S	12005	12010	12020
Motor output rating	HP	0.5	1.0	2.0
Supply voltage/ phases	V +/- 10%	220-240/ 1Ø		
Supply fuse or MCB rating	A	6-10	10	20
Output voltage/ phases	V	0-240V/ 3Ø		
Output current	A	2.3	4.3	7.0
Max motor cable length	m	25		

#### OPTIDRIVE DIMENSIONS

	Size 1	Size 2
Length / mm	200	310
Width / mm	140	164.8
Depth / mm	162	176
Fixings	2 * M4	4 * M4
Power terminal torque settings	1 Nm	
Control terminal torque settings	0.5 Nm	

### OPTIDRIVE PLUS 3<sup>GV</sup> SIZE 2

(-I Unswitched, -IS Switched)

Model	ODE/ ODEF-xxxxx-IN-I55 ODE/ ODEF-xxxxx-IN-I55S	22150	22220	24075	24150	24220	24400
Motor output rating	kW	1.5	2.2	0.75	1.5	2.2	4
Model	ODE/ ODEF-xxxxx-USA-I55 ODE/ ODEF-xxxxx-USA-I55S	22020	22030	24010	24020	24030	24050
Motor output rating	HP	2.0	3.0	1.0	2.0	3.0	5.0
Supply voltage/ phases	V +/- 10%	220-240/ 1Ø			380-480/ 3Ø		
Supply fuse or MCB rating	A	20	30	6-10	10	10	20
Output voltage/ phases	V	0-240/ 3Ø			0-480/ 3Ø		
Output current	A	7	10.5	2.2	4.1	5.8	9.5
Max motor cable length	m	100	100	50	100	100	100
Min brake resistor	W	33	22	47	47	47	33