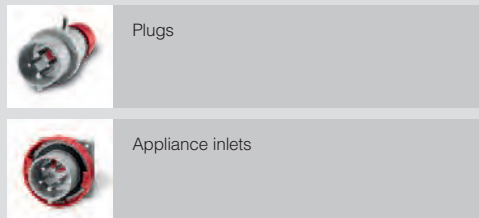


# OPTIMA-REVERSE Series

## PLUGS WITH PHASE INVERTER



## VERSIONS



## PHASE INVERTER



Fixed and movable plugs which rapidly invert two phases in order to return to the correct direction of rotation of three-phase motors for movable and fixed applications.

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Limited Resistance

## REFERENCE STANDARDS

**EN 60309-1**  
Plugs, socket-outlets and couplers for industrial purposes.  
*Part 1: general requirements.*

**EN 60309-2**  
Plugs, socket-outlets and couplers for industrial purposes.  
*Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.*

## TECHNICAL CHARACTERISTICS

Rated current:	<b>16A-32A</b>
Rated voltage:	<b>346±415V~</b>
Frequency:	<b>50±60Hz</b>
Insulating voltage:	<b>690V~</b>
Protection degree:	<b>IP44/IP54 - IP66/IP67/IP69</b>
Operating ambient temperature according to the reference standard:	<b>-25°C +40°C</b>
Max. operating ambient temperature:	<b>60°C</b>
Glow Wire test:	<b>650°C (housing) 850°C (contact carrier)</b>
Material:	<b>Engineering plastic</b>
IK degree at 20°C:	<b>IK08</b>
Cable inlets:	<b>Cable gland</b>
Halogen free:	<b>Yes</b>
Terminals:	<b>Screw</b>
Snap-on device:	<b>16A-32A</b>
Polarity:	<b>3P+E / 3P+N+E</b>
Connectable cables:	<b>Flexible class 5 or 6</b>

## WIRING AND INSTALLATION

Wiring capacity of the terminals (mm<sup>2</sup>)

Rated voltage	Rated current (A)	Plugs Appliance inlets	
		Min	Max
Over 50V	16A	1	2.5
	32A	2.5	6

Max. cable size accepted by the cable clamp:

Rated current (A)	Outside Ø mm	
	Min	Max
16A	8	15
32A	11,5	21

## OPERATING PRINCIPLE OF THE PHASE INVERTER



The phases are inverted by simply pushing and turning the phase pin support with a screwdriver.