Pins and sleeves



■ NORTH AMERICA - IP44 SPLASHPROOF - 20A-30A >> PLUGS





IP: IP44

Poles	h	Volt	Colour	20A	\Diamond	30A	\Diamond
_	4	125		SCA320P4S	1/5	SCA330P4S	1/5
2P 3W -	5	277		SCA320P5S	1/5		
ZP 3VV =	6	250		SCA320P6S 1)	1/5	SCA330P6S 1)	1/5
	7	480		SCA320P7S	1/5	SCA330P7S	1/5
	5	3Ø600		SCA420P5S	1/5	SCA430P5S	1/5
	6	3Ø380-415		SCA420P6S 1)	1/5	SCA430P6S ¹⁾	1/5
3P 4W	7	3Ø480		SCA420P7S	1/5	SCA430P7S	1/5
	9	3Ø250		SCA420P9S 1)	1/5	SCA430P9S 1)	1/5
	12	125/250		SCA420P12S	1/5	SCA430P12S	1/5
	5	3ØY347/600		SCA520P5S	1/5	SCA530P5S	1/5
/D EW/	6	200/346 240/415		SCA520P6S ¹⁾	1/5	SCA530P6S 1)	1/5
4P 5W -	7	3ØY277/480		SCA520P7S	1/5	SCA530P7S	1/5
_	9	3ØY120/208		SCA520P9S 1)	1/5	SCA530P9S 1)	1/5

UL listed.

■ NORTH AMERICA - IP44 SPLASHPROOF - 20A-30A >> APPLIANCE INLETS







Poles	h	Volt	Colour	20A	\Diamond	30A	\Diamond
	4	125		SCA320B4S	1/5	SCA330B4S	1/5
2P 3W -	5	277		SCA320B5S	1/5		
ZP 3VV —	6	250		SCA320B6S1)	1/5	SCA330B6S1)	1/5
	7	480		SCA320B7S	1/5	SCA330B7S	1/5
	5	3Ø600		SCA420B5S	1/5	SCA430B5S	1/5
	6	3Ø380-415		SCA420B6S1)	1/5	SCA430B6S1)	1/5
3P 4W	7	3Ø480		SCA420B7S	1/5	SCA430B7S	1/5
_	9	3Ø250		SCA420B9S1)	1/5	SCA430B9S1)	1/5
_	12	125/250		SCA420B12S	1/5	SCA430B12S	1/5
	5	3ØY347/600		SCA520B5S	1/5	SCA530B5S	1/5
/D EW/	6	200/346 240/415		SCA520B6S ¹⁾	1/5	SCA530B6S1)	1/5
4P 5W -	7	3ØY277/480		SCA520B7S	1/5	SCA530B7S	1/5
_	9	3ØY120/208		SCA520B9S1)	1/5	SCA530B9S1)	1/5

UL listed.



¹⁾Dual rated products - Suitable for International market (16A-32A) and North American market (20A-30A).

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■ NORTH AMERICA - IP44 SPLASHPROOF - 20A-30A >> CONNECTORS





IP: IP44

Poles	h	Volt	Colour	20A	\Diamond	30A	\Diamond
	4	125		SCA320C4S	1/5	SCA330C4S	1/5
2P 3W -	5	277		SCA320C5S	1/5		
2P 3VV =	6	250		SCA320C6S1)	1/5	SCA330C6S1)	1/5
	7	480		SCA320C7S	1/5	SCA330C7S	1/5
	5	3Ø600		SCA420C5S	1/5	SCA430C5S	1/5
	6	3Ø380-415		SCA420C6S1)	1/5	SCA430C6S1)	1/5
3P 4W	7	3Ø480		SCA420C7S	1/5	SCA430C7S	1/5
	9	3Ø250		SCA420C9S1)	1/5	SCA430C9S1)	1/5
	12	125/250		SCA420C12S	1/5	SCA430C12S	1/5
	5	3ØY347/600		SCA520C5S	1/5	SCA530C5S	1/5
/D EW	6	200/346 240/415		SCA520C6S1)	1/5	SCA530C6S1)	1/5
4P 5W -	7	3ØY277/480		SCA520C7S	1/5	SCA530C7S	1/5
_	9	3ØY120/208		SCA520C9S ¹⁾	1/5	SCA530C9S1)	1/5

UL listed.

■ NORTH AMERICA - IP44 SPLASHPROOF - 20A-30A >> RECEPTACLES





IP: IP44

Poles	h	Volt	Colour	20A	\Diamond	30A	\Diamond
	4	125		SCA320R4S	1/5	SCA330R4S	1/5
2P 3W -	5	277		SCA320R5S	1/5		
ZP 3VV =	6	250		SCA320R6S1)	1/5	SCA330R6S1)	1/5
	7	480		SCA320R7S	1/5	SCA330R7S	1/5
	5	3Ø600		SCA420R5S	1/5	SCA430R5S	1/5
	6	3Ø380-415		SCA420R6S 1)	1/5	SCA430R6S1)	1/5
3P 4W	7	3Ø480		SCA420R7S	1/5	SCA430R7S	1/5
_	9	3Ø250		SCA420R9S ¹⁾	1/5	SCA430R9S1)	1/5
_	12	125/250		SCA420R12S	1/5	SCA430R12S	1/5
	5	3ØY347/600		SCA520R5S	1/5	SCA530R5S	1/5
/D EW/	6	200/346 240/415		SCA520R6S ¹⁾	1/5	SCA530R6S1)	1/5
4P 5W -	7	3ØY277/480		SCA520R7S	1/5	SCA530R7S	1/5
-	9	3ØY120/208		SCA520R9S 1)	1/5	SCA530R9S ¹⁾	1/5

UL listed.



¹⁾ Dual rated products - Suitable for International market (16A-32A) and North American market (20A-30A).

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■ ACCESSORIES >> NON-METALLIC BACK-BOXES



Description	IP	Туре	Code	\Diamond
BACK BOX	IP67	75x75mm - SMALL	SCMBB01	1/12

UL listed.

For fixed plugs and sockets ${\tt EUREKA-HD[UL]}$ Series.

ACCESSORIES >> GROUND PLATE



Description	Notes1	Code	\Diamond
	ADV-GRP 20/30A /BACK BOX SMALL	SCMGP01AB	10
EARTH CONTINUITY PLATE	BACK BOX LARGE	SCMGP03B	10
	BACK BOX MEDIUM	SCMGP02B	10

■ ACCESSORIES >> COVER FOR IP66/IP67/IP69 PLUGS



Description	IP	Current	Poles	Code	\Diamond
	IP66/IP67/IP69	16A 20A	2P+E	570.90163	10/100
	IP66/IP67/IP69	16A 20A	3P+E	570.90164	10/100
PLUG CAP	IP66/IP67/IP69	16A 20A	3P+N+E	570.90165	10/100
	IP66/IP67/IP69	30A 32A	3P+N+E	570.90325	10/100
	IP66/IP67/IP69	30A 32A	2/3P+E	570.90324	10/100

■ IEC 60309 PINS AND SLEEVES



■ REFERENCE STANDARDS

IEC EN 60309-1 IEC EN 60309-2 UL 1682 UL 1686

■ MARKINGS AND DIRECTIVES







QUALITY MARKS



VERSIONS



North America



Dual ratings



North America with phase inverter

■ TECHNICAL CHARACTERISTICS

Rated current:	20A-30A
Rated voltage:	125V÷600V
Frequency:	50/60Hz
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	Watertight 3R,4,4X IP67/IP69 Splashproof IP44
IInstallation temperature:	-25°C +60°C
Enclosure material:	PC Silossane
Colour:	Grey RAL 7016
Impact resistance (IK degree):	IK10
Construction characteristics/ type of closure:	Separate body and handle / Snap-on (without screws)
Self extinguishing degree (GWT):	960°C (body) 960°C (socket contact carrier)
Self-extinguishing (UL94):	5VA (3mm)
Cable entries:	Screwless cord clamp / cable gland

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline	Aci	ds	Bases		Solvents				Mineral	UV
solution	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol	oil	rays
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Resistant	Resistant



■ WIRING CAPACITY OF THE TERMINALS

Rated current			20A	30A
Cross-section of the	AWG	Min	16 (1)	14 (2.5)
connectable conductors	(mm²)	Max	10 (4)	8 (10)
Tightening torque	lbs-in	(Nm)	7 (0.8)	7 (0.8)

MAX. CABLE SIZE ACCEPTED BY THE CABLE CLAMP

Rated current			20)A	30A		
Poles wires				2P3W - 3P4W	4P5W	2P3W - 3P4W	4P5W
0		Min	inch	.300 (7.5)	.354 (9)	.354 (9)	.531 (13.5)
Outside Ø mm	mm	Max	(mm)	.550 (14)	.630 (16)	.630 (16)	.827 (21)

Pins and sleeves



OPTIMA[UL] Series

OPTIMA[UL] is a complete range of UL/CSA listed industrial plugs (pin) and socket outlets (sleeve) for the North American market and countries where the UL standard is recognized.

Sturdy and safe industrial plugs and sockets thanks to the use of specific technopolymers that give maximum resistance to impact (IK10), to heat and fire (GW960°C according to EN 60695-2-1), to atmospheric agents and UV rays.

Fast to wire thanks to the opening of the body by means of a snap-on steel spring mechanism and to the screwless cable clamp with cable gland function.7

Technical information

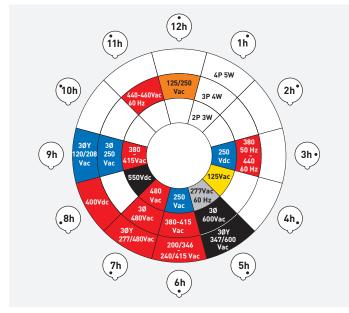
Industrial plugs and sockets for the north american market

COLOUR CODE

The operating voltages are identified by conventional colours as shown in the table:

Rated operating voltage	Colour
110/130V	
208/250V	
380/480V	
500/690V	
277V	
125/250V	

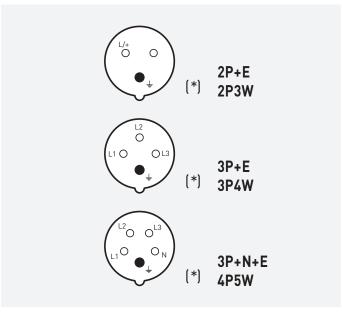
CLOCK FACE POSITION - UL RATINGS



Clock diagram

Viewing a UL Standard connector and receptacle from the front, clock our position (h) is established by the position of the earth contact restect the major keyway which is always situated at 6h clock position.

SOCKET AND RECEPTACLE (FRONT VIEW)



(*) Major keyway.



Main characteristics watertight versions - IP67/IP69 TYPE 3R, 4, 4X

CONNECTOR / PLUG



- 01 Screwless external cable gland / cord grip
- 02 Internal cord clamp
- 03 Multidiameter gasket
- Outstanding materials, with high mechanical heat, fire, chemicals and UV rays resistance
- OS Snap-on screwless device with stainless steel spring to speed up cabling operations
- Socket cap with clear indication of open and closed position. IP54 degree is guaranteed even in open position
- Ultra smooth anti-corrosion nickel-plated brass pins

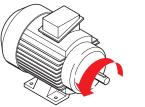
Siloxane-Polycarbonate it is a special thermoplatic copolymers with an improved impact and chemical resistance, flame retardance, and UV stabilization over the other thermolplastic material.

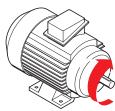
Si-PC is an excellent solution for outdoor and haevy duty applications such as industrial connectors and electrical enclosures.

04

Special versions with phase inverter







Phase inversion is obtained simply by pushing and turning with a screwdriver the support where the two phase pins are mounted.

Pins and sleeves

Special versions

PHASE INVERTER

OPTIMA[UL] with phase inverter is a range of 20 and 30A flush mounting industrial inlets that allow the rapid reversal of two phases to restore the correct direction of rotation for three-phase motors of mobile and fixed loads.

The inversion of the phases is done simply by pushing and turning with a screwdriver the support where the two phase pins are mounted. The efficiency of the contacts over time is also guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging, while the

The OPTIMA[UL] with phase inverter series plugs do not neglect the environmental aspect, being produced with halogen-free materials.

IP degree stability is ensured by the co-molded gasket.



Building construction site

Standard applications



Wineries



Food industry



Agriculture



Wind turbines



Products for special applications

DATA CENTER APPLICATIONS DUAL RATED PINS AND SLEEVES

The OPTIMA[UL] Series offers a special range of Pin & Sleeve dual rated devices for both US and international markets, UL listing mark by UL laboratory and CE mark (compliance with European regulations and stands).

The series includes a complete range of pins and sleeves products, plugs, connectors receptacles and inlets in all polarities 2 poles 3wires, 3 poles 4 wires and 4 poles 5 wires.

The 20A North American rating is also 16A as International rating and the 30A is 32A too.

The configurations that can be dual rated is with 6h and 9h clock position.

The range includes splashproof IP44 and watertight IP67, IP69 according to IEC 60529 standards and 3R, 4 and 4X according UL 50 standard

All OPTIMA[UL] Series are RoHS compliant with performance and safety benefits of its rugged material.

A complete line of accessories are also available, such as UL listed back boxes and caps for IP67 watertight plugs covering every application and purpose for indoor and outdoor use.



Datacenter

REFRIGERATED CONTAINER APPLICATIONS

Container port terminals are among the most rugged and harsh environments due to atmospheric agents and chemical substances present such as oils and solvents.

The frequent insertion, withdrawal and impacts put the pins and sleeves devices to the test everyday.

Scame pins and sleeves plugs, connectors receptacles and inlets are the perfect solution to guarantee reliability and safety in any environment and conditions.

The outstanding temperature and impact characteristics of the material makes the UL listed OPTIMA[UL] Series the perfect solution for such harsh environments.

To increase the safety this range of products have the double IP degree protection IP67 and IP69 along with the watertight protection 3. 4 and 4X.

Plugs, receptacles, connectors and inlets can be mated with all IEC 60309 devices.

The only configuration required for this specific application is the 3h clock our position with 3P4W polarity and the 32A rating.



Shipyard - Container terminal