

SWITCHED INTERLOCKED SOCKET OUTLETS

ADVANCE-GRP System

elecDirect.com

■ WITHOUT BASE IP66/67/69 - TYPE 12, 3R, 4, 4X - WATERTIGHT >> WITHOUT FUSE CARRIER



IP: IP66/IP67/IP69
Flange: 130X260MM

Poles	h	Volt	Colour	20A	30A
2P 3W	4	125	Yellow	SCM320MI4W-NB 1/6	SCM330MI4W-NB 1/6
	6	250	Blue	SCM320MI6W-NB 1/6	SCM330MI6W-NB 1/6
	7	480	Red	SCM320MI7W-NB 1/6	SCM330MI7W-NB 1/6
3P 4W	5	3Ø600	Black	SCM420MI5W-NB 1/6	SCM430MI5W-NB 1/6
	7	3Ø480	Red	SCM420MI7W-NB 1/6	SCM430MI7W-NB 1/6
	9	3Ø250	Blue	SCM420MI9W-NB 1/6	SCM430MI9W-NB 1/6
	12	125/250	Orange	SCM420MI12W-NB 1/6	SCM430MI12W-NB 1/6
4P 5W	5	3ØY347/600	Black	SCM520MI5W-NB 1/6	SCM530MI5W-NB 1/6
	7	3ØY277/480	Red	SCM520MI7W-NB 1/6	SCM530MI7W-NB 1/6
	9	3ØY120/208	Blue	SCM520MI9W-NB 1/6	SCM530MI9W-NB 1/6



IP: IP66/IP67/IP69
Flange: 170X380MM

Poles	h	Volt	Colour	60A
2P 3W	6	250	Blue	SCM360MI6W-NB 1
	7	480	Red	SCM360MI7W-NB 1
	5	3Ø600	Black	SCM460MI5W-NB 1
3P 4W	7	3Ø480	Red	SCM460MI7W-NB 1
	9	3Ø250	Blue	SCM460MI9W-NB 1
	5	3ØY347/600	Black	SCM560MI5W-NB 1
4P 5W	7	3ØY277/480	Red	SCM560MI7W-NB 1
	9	3ØY120/208	Blue	SCM560MI9W-NB 1

UL listed.
Empty base: ADVANCE-GRP System (fam. 579).
With power indicating led.
To be matched with the respective bases.

■ SURFACE MOUNTING IP66/67/69 - TYPE 12K, 3R, 4, 4X - WATERTIGHT >> WITHOUT FUSE CARRIER



IP: IP66/IP67/IP69
Flange: 130X260MM

Poles	h	Volt	Colour	20A	30A
2P 3W	4	125	Yellow	SCM320MI4W 1/6	SCM330MI4W 1/6
	6	250	Blue	SCM320MI6W 1/6	SCM330MI6W 1/6
	7	480	Red	SCM320MI7W 1/6	SCM330MI7W 1/6
3P 4W	5	3Ø600	Black	SCM420MI5W 1/6	SCM430MI5W 1/6
	7	3Ø480	Red	SCM420MI7W 1/6	SCM430MI7W 1/6
	9	3Ø250	Blue	SCM420MI9W 1/6	SCM430MI9W 1/6
	12	125/250	Orange	SCM420MI12W 1/6	SCM430MI12W 1/6
4P 5W	5	3ØY347/600	Black	SCM520MI5W 1/6	SCM530MI5W 1/6
	7	3ØY277/480	Red	SCM520MI7W 1/6	SCM530MI7W 1/6
	9	3ØY120/208	Blue	SCM520MI9W 1/6	SCM530MI9W 1/6



IP: IP66/IP67/IP69
Flange: 170X380MM

Poles	h	Volt	Colour	60A
2P 3W	6	250	Blue	SCM360MI6W 1
	7	480	Red	SCM360MI7W 1
	5	3Ø600	Black	SCM460MI5W 1
3P 4W	7	3Ø480	Red	SCM460MI7W 1
	9	3Ø250	Blue	SCM460MI9W 1
	5	3ØY347/600	Black	SCM560MI5W 1
4P 5W	7	3ØY277/480	Red	SCM560MI7W 1
	9	3ØY120/208	Blue	SCM560MI9W 1

UL listed.
With power indicating led.
Already supplied with simple single bottom.

SWITCHED INTERLOCKED SOCKET OUTLETS

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ADVANCE-GRP[UL] Series

ADVANCE-GRP[UL] is a complete range of interlocked industrial socket outlets from 20 to 60A, UL /CSA listed for the North American market and countries where the UL standard is recognized. The body made of thermosetting material GRP (Glass fiber Reinforced Polyester) offers maximum resistance to impact (IK10 at temperatures between -40 and +60°C), as well as to heat and fire (GW 960°C), proving to be insensitive to corrosion and to atmospheric and chemical agents. The ergonomic knob, padlocked in ON or OFF position, makes it possible to operate even when wearing work gloves, while the led light positioned on the front immediately communicates the status of the socket, whether powered or not.

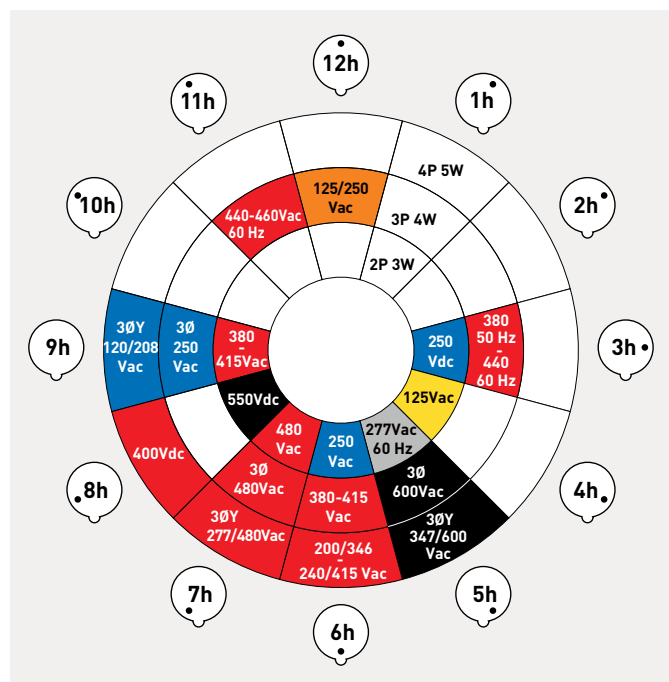
Industrial plugs and sockets for the north american market

COLOUR CODE

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

Rated operating	Colour
110/130V	Yellow
208/250V	Blue
380/480V	Red
500/690V	Black
277V	Grey
125/250V	Orange

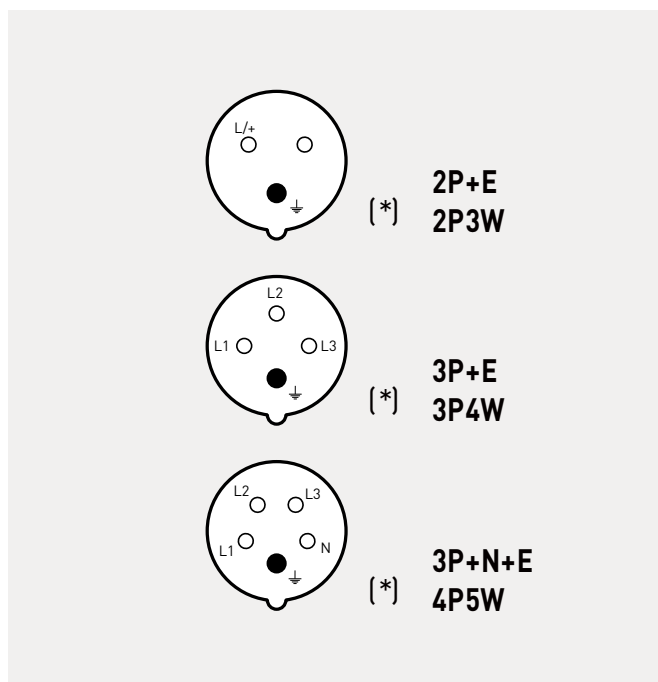
CLOCK FACE POSITION - UL RATINGS



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 rest the major keyway which is always situated at 6h clock position.































SOCKET AND RECEPTACLE (FRONT VIEW)



(*) Major keyway.

Synoptic table of standard industrial plugs and sockets to UL 1682/1686 e C22.2 N.182.1

RATED OPERATING VOLTAGE > 50 V (LV)

Number of contact	Poles	Frequency Hz	Rated operating voltage V	Clock face pos. (h) Earth contact ¹⁾		Colour code
				16A - 32A	63A - 125A	
3 2P3W	1P+N+E	50 and 60	100÷130	4	4	
		60	277	5	5	
	2P+E	50 and 60	100÷130	4	4	
		50 and 60	200÷250	6	6	
		50 and 60	380÷415	9	9	
		50 and 60	480÷500	7	7	
		50 and 60	suppl. by isol. transf.	12	12	- 5)
		100÷300	> 50	10	10	 4)
		>300÷500	> 50	2	2	 4)
		d.c.	>50÷250	3	3	- 5)
		d.c.	> 250	8	8	- 5)
4 3P4W	2P+N+E	50 and 60	125/250	12	12	
	3P+E	50 and 60	100÷130	4	4	
		50 and 60	200÷250	9	9	
		50 and 60	380÷415	6	6	
		60	440÷460 ³⁾	11	11	
		50 and 60	480÷500	7	7	
		50 and 60	600÷690	5	5	
		50 60	380 440 ²⁾	3	3	
		50 and 60	1000	8	8	
		100÷300	> 50	10	-	 4)
		>300÷500	> 50	2	-	 4)
5 4P5W	3P+N+E	50 and 60	57/100÷75/130	4	4	
		50 and 60	120/208÷144/250	9	9	
		50 and 60	200/346÷240/415	6	6	
		50 and 60	277/480÷288/500	7	7	
		50 and 60	347/600÷400/690	5	5	
		60	250/440÷265/460 ³⁾	11	11	
		50 60	220/380 250/440 ³⁾	3	3	
		50 and 60	1000	8	8	
		50 and 60	suppl. by isol. transf.	12	12	
		100÷300	> 50	10	10	 4)
		>300÷500	> 50	2	2	 4)
All types		All types of voltage and/or frequency not within these standardised configurations		1	1	-

¹⁾ The positions shown by a dash [-] are not standardised.

²⁾ For ISO standard refrigerated containers.

³⁾ Mainly for shipboard installations.

⁴⁾ Combinations of green with the colour of the rated operating voltage can be used to identify frequencies >60÷500Hz.

⁵⁾ Plugs and sockets for which the IEC 60309-2 standard sets only the clock face position (h) of the earth contact and not the colour, are supplied by SCAME in RAL 7035 grey.

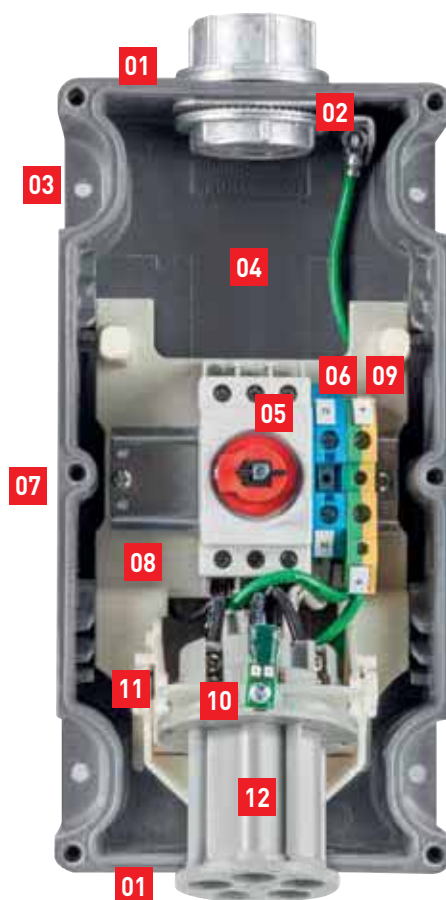
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Technical information

Main characteristics 20A-30A-60A



- | | |
|---|--|
| 01 Blank sides with drilling point marks | 07 Threaded metal insert |
| 02 Pre-wired grounding plate connected to metal conduit grounding system | 08 Easily removable support |
| 03 External fixing point | 09 Earth terminal |
| 04 Wide internal space to ease wiring operations | 10 Power indicator led |
| 05 Motor disconnect switch | 11 Possibility of microswitch with plug-inserted control function |
| 06 Neutral terminal | 12 Prewired receptacle accepts all manufacturer's IEC60309-2 pin and sleeve plugs |

Application examples



Wineries



Food industry



- 01** Unlosable single-piece waterproof gasket
- 02** Dual mechanical interlock to increase safety
- 03** Lockable handle to meet OSHA lockout/tagout regulation
- 04** Power indicator LED
 - **LIGHT ON** - socket powered
 - **LIGHT OFF** - socket not powered

- 05** Cover entirely separate from the box to ease installation
- 06** Captive stainless steel closing screws
- 07** Module in high-temperature resistant engineering polymer
- 08** Bottom side entry possibility (also loop-in - loop-out)



Port - Container terminal

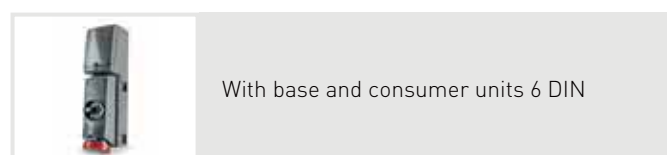
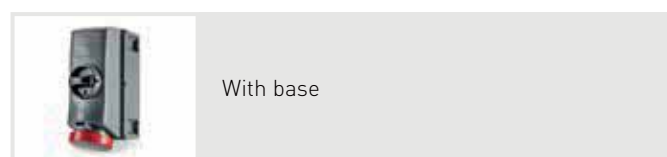
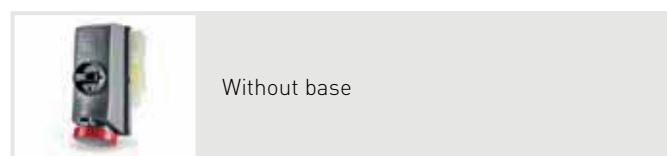


Heavy industry

INDUSTRIAL SWITCHED INTELOCKED SOCKET OUTLETS UL/CSA LISTED >50V



VERSIONS



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

UL 1682

UL 1686

UL 508

UL 60947-4-1

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	20A-30A-60A
Rated voltage:	>50÷690V
Frequency:	50÷500Hz, c.c.
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP66/IP67/IP69
Installation temperature:	-40°C +60°C
Enclosure material:	Thermosetting GRP (Halogen Free)
Colour:	Grey RAL 7037
Self extinguishing degree (GWT):	960°C (body) 960°C (socket contact carrier) 960°C (switch)
Self-extinguishing (UL94):	V0 (3.2mm)
Impact resistance (IK degree):	IK10 (-40°C)
Insulation class:	Class II (double insulation) □
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF and ON
Max diameter of the padlock arch for handle padlocking:	20A-32A 5mm 60A 6,3mm

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	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.