



INDUSTRIAL PLUGS AND SOCKETS

Eureka Series



General technical informations

INDUSTRIAL PLUGS AND SOCKETS TO IEC 60309 RATED OPERATING VOLTAGE >50 V

Clock face position

Viewing the socket from the front, the clock face position **h** is established by observing the position of the earth contact with respect to the major keyway, which is always situated at 6 o'clock.

The different voltages are identified by conventional colour codes.

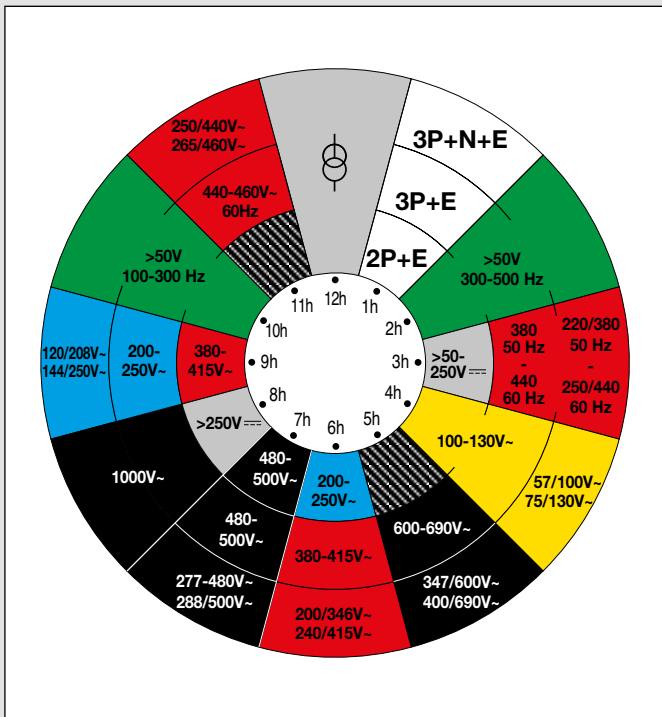
Clock reference:

All the versions required by the IEC 60309 standard are available, including the more specific:

Examples:

- standard use **h 6**
- refrigerated container..... **h 3**
- marine, port or ship installation **h 11**
- direct current (2P + E) **h 3 and 8**
- supply by isolation transformer (TST)..... **h 12**
- high frequency, from 100 to 300 Hz **h 10**
- high frequency, from 300 to 500 Hz **h 2**
- specific voltages 100 - 130V **h 4**
- 480 - 500V **h 7**
- 600 - 690V **h 5**

Clock position - IEC ratings - Series I



CLOCK DIAGRAM

Clock face position (**h**) of the earth pole of low voltage (>50 V) industrial plugs and sockets to IEC 60309-2 for different applications (polarity, voltage, frequency, current)

= Supply from isolation transformer

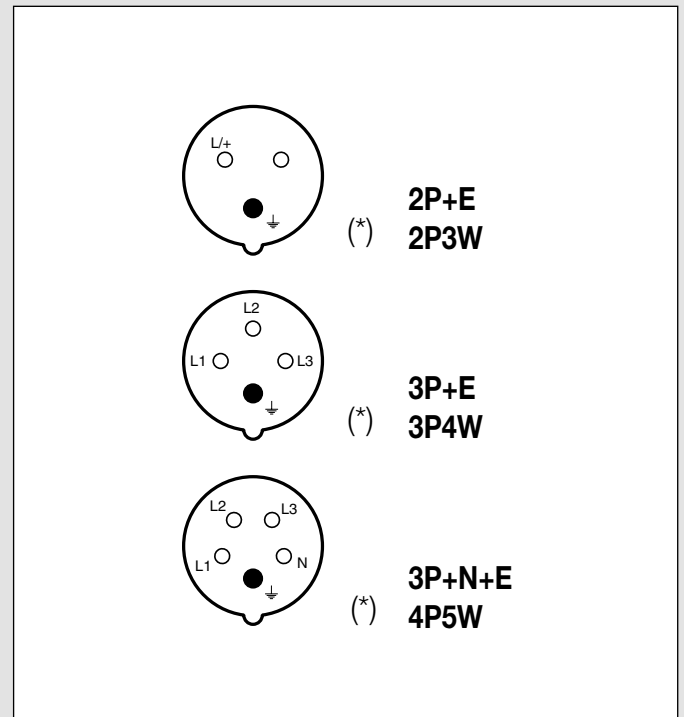
COLOUR CODE

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

Rated operating voltage V	Colour 1)
from 20 to 25	Violet
from 40 to 50	White
from 100 to 130	Yellow
from 200 to 250	Blue
from 380 to 480	Red
from 500 to 1000	Black

1) Combinations of green with the colour of the rated operating voltage can be used to identify frequencies between 60 Hz and 500 Hz inclusive.


































SOCKET (front view)



(*) Major keyway

■ SYNOPTIC TABLE OF STANDARD INDUSTRIAL PLUGS AND SOCKETS TO IEC 60309-2

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
				16/20A 32/30A	63/60A 125/100A	
3 Contact 2P3W	1P+N+E II Series	50 and 60	100÷130	4	4	
		60	277	5	5	
	2P+E I and II Series	50 and 60	100÷130	4	4	
			200÷250	6	6	
			380÷415	9	9	
			480÷500	7	7	
		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)	
> 250		8	8	- (5)		
4 Contact 3P4W	2P+N+E II Series	50 and 60	125/250	12	12	 
		50 and 60	100÷130	4	4	
	200÷250		9	9		
	380÷415		6	6		
	60	440÷460 (4)	11	11		
	3P+E I and II Series	50 and 60	480÷500	7	7	
			600÷690	5	5	
		50	380	3	3	
		60	440 (3)	3	3	
	50 and 60	1000	8	8		
100÷300	> 50	10	-	 (4)		
>300÷500	> 50	2	-	 (4)		
5 Contact 4P5W	3P+N+E I and II Series	50 and 60	57/100÷75/130	4	4	
			120/208÷144/250	9	9	
			200/346÷240/415	6	6	
			277/480÷288/500	7	7	
			347/600÷400/690	5	5	
		60	250/440÷265/460 (4)	11	11	
		50	220/380	3	3	
		60	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 between 60 Hz and 500 Hz inclusive.
- (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

SERIES I AND SERIES II

Series I and Series II have more or less the same dimensions, but are classified according to different rated currents. For Series I, currents are 16A, 32A, 63A, and 125A and for Series II, rated currents are 20A, 30A, 60A and 100A.

Series I products are used in all European countries and some countries in South America, Asia, Australia and Africa. On the contrary, Series II products are mainly marketed in North America (USA, Mexico and Canada) and some countries in South America.

NOTE

- SCAME plugs and sockets for specific uses other than 4 - 6 - 9 h are available only on demand and are therefore not kept in stock. Minimum order quantities: 50 pieces.

■ FLUSH MOUNTING APPLIANCE INLETS IP44



IP44

90° ANGLED



Poles	Hz.	Volt	Colour	IP44	
				16A 70x87	32A 70x87
2P+E	50/60	100-130		242.1690	242.3290
	50/60	200-250		242.1693	242.3293
	50/60	380-415		242.1698	242.3298
	50/60	480-500		242.16936	242.32936
	50/60	Trasf. >50		242.16933	242.32933
	>300-500 c.c.	>50-250		242.16932	242.32932
	c.c.	>250		242.16934	242.32934
				242.16938	242.32938
3P+E	50/60	100-130		242.1691	242.3291
	50/60	200-250		242.1694	242.3294
	50/60	380-415		242.1696	242.3296
	60	440-460		242.16965	242.32965
	50/60	480-500		242.16966	242.32966
	50/60	600-690		242.16967	242.32967
	100-300 50 60	>50-80 440		242.16964	242.32964
	>300-500	>50		242.16961	242.32961
			242.16962	242.32962	
3P+N+E	50/60	100-130		242.1692	242.3292
	50/60	208-250		242.1695	242.3295
	50/60	346-415		242.1697	242.3297
	50/60	480-500		242.16976	242.32976
	50/60	600-690		242.16977	242.32977
	>300-500	440-460		242.16975	242.32975
	50	380		242.16974	242.32974
	60	440		242.16972	242.32972

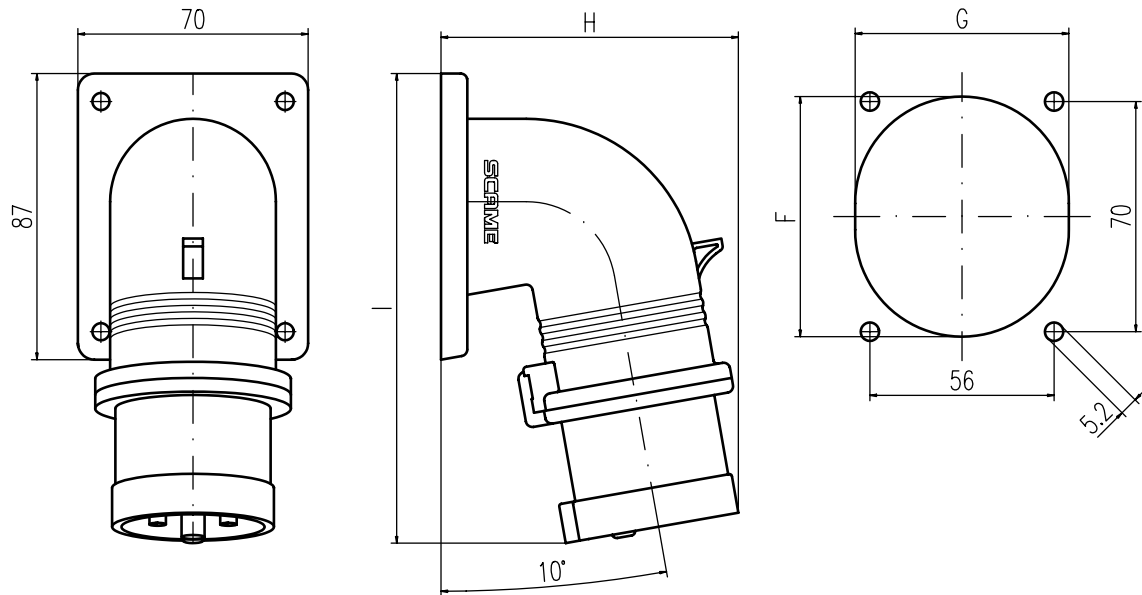


= Screw terminals



= Mantle terminals

APPLIANCE INLETS - 90° ANGLED
IP44



		F	G	H	I
16A	2P+E	73	65	83	142
	3P+E	73	65	91	143
	3P+N+E	73	65	97	144
32A	2P+E	87	76	99	153
	3P+E	87	76	99	153
	3P+N+E	87	76	107	154

