INDUSTRIAL PLUGS AND SOCKETS

VERSIONS

Plugs

Connectors

Appliance inlets

Flush mounting socket outlets

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.

QUALITY MARKS

IK 03

TECHNICAL CHARACTERISTICS

Rated current:	**16A-32A-63A-125A**
Rated voltage:	**100÷690V~**
Frequency:	**c.c - 50÷500Hz**
Insulating voltage:	**500/690V~**
Protection degree:	**IP44-IP66/IP67**
Operating temperature according to the reference standard:	**-25°C +40°C**
Max operating temperature:	**60°C**
Glow Wire test:	**650°C/850°C**
Material:	**Engineering plastic**
IK degree at 20°C:	**IK08**
Cable inlets:	**Cable gland**
Halogen free:	**Yes**
Terminals:	**Screw (16A-32A-63A-125A) Insulation perforating (16A) Spring (32A mobile) Spring (16A-32A flush/surface mounting)**
Safe-in device:	**16A**
Snap-on device:	**16A-32A-63A-125A**

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	Resistant	Limited Resistance

WIRING AND INSTALLATION

Wiring capacity of the terminals
Cross-section of the connectable conductors (mm²)

Rated voltage	Rated current (A)	Plugs, connectors and appliance inlets		Socket outlets	
		Min	Max	Min	Max
>50V	16A	1	2,5	1,5	4
	32A	2,5	6	2,5	10
	63A	6	16	6	25
	125A	16	50	25	70

Max. cable size accepted by the cable clamp:

Rated current (A)	Outside Ø mm	
	Min	Max
16A	8	15
32A	11,5	21
63A	17	31
125A	26	48

APPLICATION EXAMPLES

"Snap-on" device with stainless steel spring to guarantee frequent opening/closing (possibility to inspect the terminals).

External cable stay with tulip clamping having IP66/IP67 cable gland functions (the device is used on both IP44 and IP66/IP67 products).

Insertion of the conductor with insulation into the perforating terminal.

Insulation piercing terminal made in highly elastic phosphor bronze.

Internal profile of the handle which avoids the accidental opening of the contact.

Socket/plug module with screw terminals.

32A plugs and connectors with screwless spring terminal. Requires cable stripping, but not the tightening of the screws.

16-32A plugs, flush mounting sockets and surface mounting sockets with spring terminals.

THE "SAFE-IN" SAFETY DEVICE

The "**SAFE-IN**" safety device assembled on the 16A industrial sockets is the most innovative element of the new OPTIMA Series.
The "**SAFE-IN**" device works like the protection installed on household sockets, i.e., by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the mobile sockets.

SAFETY LEVEL OF THE OPTIMA SERIES SOCKETS

The OPTIMA Series sockets with the "**SAFE-IN**" safety device guarantee a higher level of safety in comparison with ordinary industrial sockets, especially in environments where there may be children present or people who have not been trained about electrical dangers (public areas, amusement parks, campgrounds, open markets, etc.).
Dangerous situations, such as the important examples illustrated in the figure to the side, can be resolved thanks to the new OPTIMA Series sockets equipped with the "**SAFE-IN**" safety device.

Connector tube protective shutter for greater safety against direct contacts. (The SAFE-IN safety device).

POTENTIALLY DANGEROUS SITUATIONS

INDUSTRIAL SURFACE MOUNTING SOCKET OUTLETS

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.

QUALITY MARKS

03

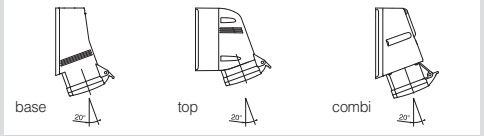
VERSIONS

BASE version

TOP version

COMBI version

SURFACE MOUNTING INSTALLATION AXIS



TECHNICAL CHARACTERISTICS

Rated current:	**16A-32A**
Rated voltage:	**100÷690V~**
Frequency:	**c.c - 50÷500Hz**
Insulating voltage:	**500/690V~**
Protection degree:	**BASE AND TOP: IP44 - IP66/IP67** **COMBI: IP44 CLOSED COVER**
Operating temperature according to the reference standard:	**-25°C +40°C**
Max operating temperature:	**60°C**
Glow Wire test:	**650°C/850°C**
Material:	**Engineering plastic**
IK degree at 20°C:	**IK08**
Cable inlets:	**Cable gland IP44** **Cable gland IP66/IP67**
Halogen free:	**Si**
Terminals:	**Screw (16A-32A) Spring (32A)**
Safe-in device:	**16A**
Fuses: (COMBI version)	**Max 10A - 5x20mm** **H: high power cutoff (1500A)** **T: delayed action**

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	Resistant	Limited Resistance

Fastening to exterior wall.

TOP version: threaded knockout hole inlets version IP66/IP67, for quick fastening of the cable entry device. IP44 versions supplied with cable gland.

16-32A Surface mounting sockets with spring terminals.

TOP version: ability to create entry-exit.

TOP version: reversible base and removable socket for easy wiring.

TOP IP66/IP67 version: integrated, one-piece gasket, fastening screws outside the gasket.

TOP version: entry-exit terminal board accessory.

TOP version: versions with SAFE-IN (16A) safety device available.

COMBI version: combined versions, industrial and household socket.

BASE version: simplified wiring. Socket fixed to the base, open terminals orientated in the same direction and easily accessible.

PLUGS WITH PHASE INVERTERS

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.

VERSIONS

Plugs

Appliance inlets

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

TECHNICAL CHARACTERISTICS

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

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	Resistant	Limited Resistance

WIRING AND INSTALLATION

Wiring capacity of the terminals (mm²)

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.

PLUGS FOR USE IN EXPLOSIVE ATMOSPHERES

TECHNICAL CHARACTERISTICS

ATEX Code:	II 2D
Ex Protection type:	Ex tD A21 IP66 T90°C U
Protection degree:	IP66
Ambient temperature:	-25°C +60°C
Maximum permissible	surface temperature: T90°C
Impact resistance:	7J
Glow wire test:	850°C/960°C
Self extinguishing UL94:	5VA
Material:	Thermoplastic
Colour:	Grey
Rated current:	16A-32A-63A-125A
Rated voltage:	200÷415V~
Frequency:	50÷60Hz
Insulating voltage:	500/690V~
Terminals:	Screw

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.

EN 61241-0
Electrical apparatus for use in the presence of combustible dust.
Part 0: general requirements.

EN 61241-1
Electrical apparatus for use in the presence of combustible dust.
Part 1: protection by enclosures "tD".

PRODUCTS FOR USE IN EXPLOSIVE ATMOSPHERES

Scame offers products for installation in environments with a potential risk of explosion identified as zone 21 and which fall under the area of application of the ATEX Directive (European Directive 94/9/EC).

SCAME
3P+N+⏚ - 125A - 6h / 346-415V~

218.EX12537	CE
ICEPI 10 ATEX 03C010	Ex
Ex tD A21 Ta -25 +60°C	
IP66 T95°C	II 2D

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	Resistant	Limited Resistance

PLUGS AND CONNECTORS FOR DEMANDING APPLICATIONS

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.

EN 60309-4
Plugs, socket-outlets and couplers for industrial purposes.
Parte 4: switched socket-outlets and connectors, with or without interlock.

TECHNICAL CHARACTERISTICS

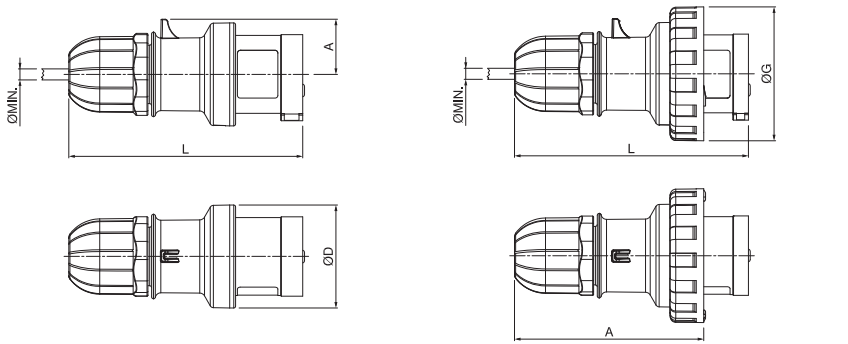
Rated current:	16A-32A-63A-125A
Rated voltage:	48÷440V~
Frequency:	50÷60Hz
Protection degree:	IP66/IP67
Operating temperature according to the reference standard:	-25°C +40°C
Max operating temperature:	60°C
Glow Wire test:	850°C/960°C
Self extinguishing UL94:	V5
Material:	Engineering plastic
Colour:	Grey
Terminals:	Screw

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	Resistant	Limited Resistance

DIMENSIONS

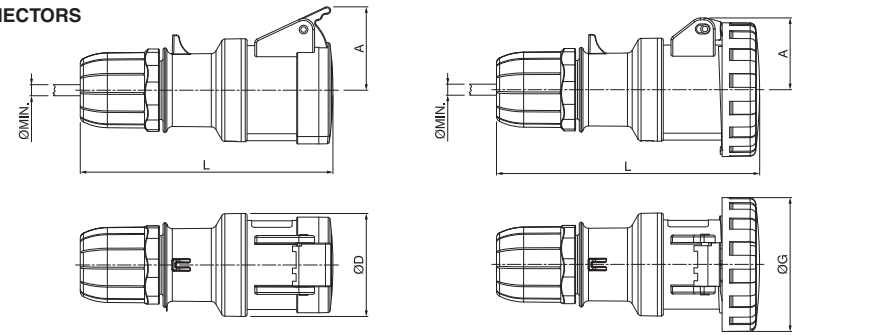
PLUGS



IP44		A	Ø D	L Min	Ø Min
16A	2P+E	30	56	128	6
	3P+E	34	60	135	6
	3P+N+E	38	65	153	9
32A	2P+E	40	65	162	9
	3P+E	40	65	162	9
	3P+N+E	45	73	176	13

IP66/IP67		A	Ø G	L Min	Ø Min
16A	2P+E	103	73	128	6
	3P+E	110	81	135	6
	3P+N+E	129	88	153	9
32A	2P+E	131	93	162	9
	3P+E	131	93	162	9
	3P+N+E	145	101	176	13
63A		160	112	220	17
125A		202	128	272	26

CONNECTORS

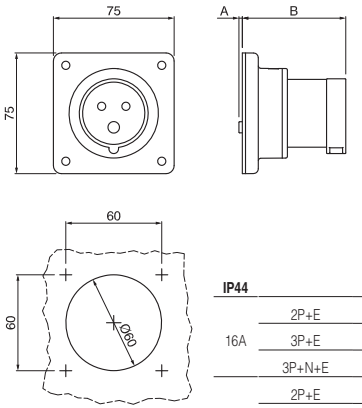


IP44		A	Ø D	L Min	Ø Min
16A	2P+E	46	56	138	6
	3P+E	49	60	145	6
	3P+N+E	54	65	165	9
32A	2P+E	54	65	175	9
	3P+E	54	65	175	9
	3P+N+E	59	73	190	13

IP66/IP67		A	Ø G	L Min	Ø Min
16A	2P+E	39	73	141	6
	3P+E	43	81	148	6
	3P+N+E	51	88	168	9
32A	2P+E	56	93	178	9
	3P+E	56	93	178	9
	3P+N+E	52	101	195	13
63A		57,5	112	230	17
125A		64,25	128	288	26

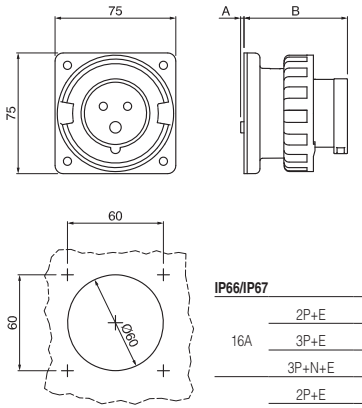
(Dimensions in mm)

APPLIANCE INLETS - IP44



IP44		A	B
16A	2P+E	2	65
	3P+E	2	65
	3P+N+E	2	65
32A	2P+E	19	73
	3P+E	19	73
	3P+N+E	19	73

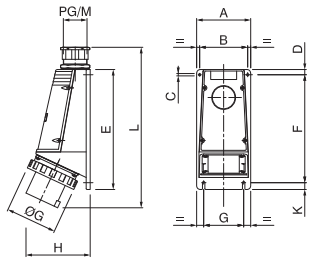
APPLIANCE INLETS - IP66/IP67



IP66/IP67		A	B
16A	2P+E	2	65
	3P+E	2	65
	3P+N+E	2	65
32A	2P+E	19	73
	3P+E	19	73
	3P+N+E	19	73

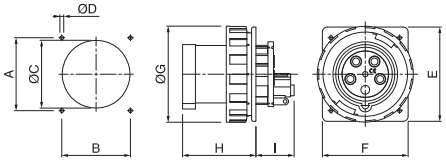
APPLIANCE INLETS - IP66/IP67

		A	B	ØC	ØD	E	F	ØG	H	I
63A	2P+E	85	80	79	4.5	110	100	112	88.5	44.5
	3P+E	85	80	79	4.5	110	100	112	88.5	44.5
	3P+N+E	80	85	79	4.5	110	100	112	88.5	44.5
125A	2P+E	100	100	90	6	114	114	128.5	97	53.5
	3P+E	100	100	90	6	114	114	128.5	97	53.5
	3P+N+E	100	100	90	6	114	114	128.5	97	53.5



APPLIANCE INLETS - IP66/IP67

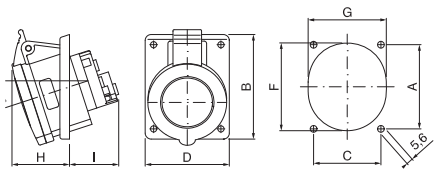
		A	B	C	D	E	F	G	H	K	L	PG/M	ØG
63A	2P+E	120	200	45	137	235	205	80	131	15	267	29/32	112
	3P+E	123	205	46	141	235	205	80	131	15	267	29/32	112
	3P+N+E	120	203	45	141	235	205	80	131	15	267	29/32	112
125A	2P+E	124	215	46	151	300	270	100	159	171	346	48/63	128
	3P+E	120	223	45	160	300	270	100	159	17	346	48/63	128
	3P+N+E	126	220	46	154	300	270	100	159	17	346	48/63	128



(Dimensions in mm)

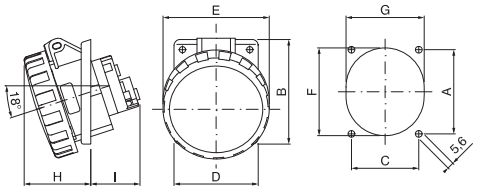
DIMENSIONS

PANEL MOUNTING SOCKET OUTLETS - ANGLED - IP44



		A	B	C	D	F	G	H	I
16A	2P+E	70	87	56	70	73	65	45	40
	3P+E	70	87	56	70	73	65	46	40
	3P+N+E	70	87	56	70	73	65	48	41
32A	2P+E	90	106	68	84	87	76	52	60
	3P+E	90	106	68	84	87	76	52	60
	3P+N+E	90	106	68	84	87	76	54	61

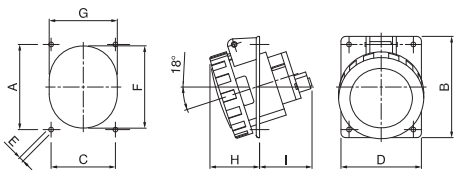
PANEL MOUNTING SOCKET OUTLETS - ANGLED - IP66/IP67



		A	B	C	D	E	F	G	H	I
16A	2P+E	70	87	56	70	73	73	65	52	40
	3P+E	70	87	56	70	81	73	65	54	40
	3P+N+E	70	87	56	70	88	73	65	55	41
32A	2P+E	90	106	68	84	93	87	76	61	60
	3P+E	90	106	68	84	93	87	76	61	60
	3P+N+E	90	106	68	84	101	87	76	63	61

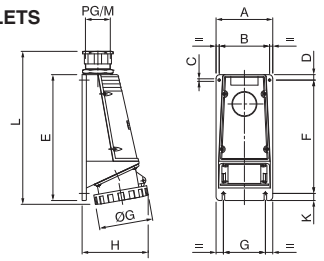
PANEL MOUNTING SOCKET OUTLETS - IP66/IP67

		A	B	C	D	E	F	G	H	I
63A	2P+E	85	110	80	100	4.5	92	80	63	89
	3P+E	85	110	80	100	4.5	92	80	63	89
	3P+N+E	85	110	80	100	4.5	92	80	63	89
125A	2P+E	90	114	90	114	6	104	92	92	101
	3P+E	90	114	90	114	6	104	92	92	101
	3P+N+E	90	114	90	114	6	104	92	92	101



REDUCED FLANGE PANEL MOUNTING SOCKET OUTLETS IP66/IP67

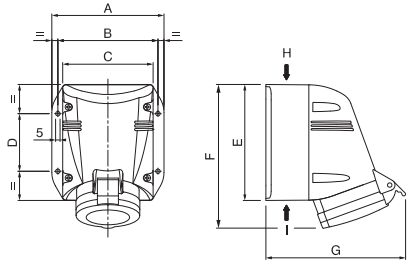
		A	B	C	D	E	F	G	H	K	L	PG/M	ØG
63A	2P+E	115	96	6	10	235	205	80	125	15	267	29/32	112
	3P+E	115	96	6	10	235	205	80	125	15	267	29/32	112
	3P+N+E	115	96	6	10	235	205	80	125	15	267	29/32	112
125A	2P+E	135	120	6	13	300	270	100	157	17	346	48/63	128
	3P+E	135	120	6	13	300	270	100	157	17	346	48/63	128
	3P+N+E	135	120	6	13	300	270	100	157	17	346	48/63	128



(Dimensions in mm)

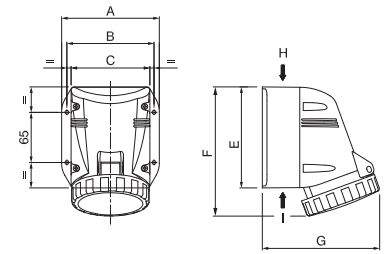
TOP VERSION - IP44

		A	B	C	D	E	F	G	H	I
16A	2P+E	94	80	70	/	96	126	119	M20X1.5	M20X1.5
	3P+E	109	97	85	51	112	140	140	M25X1.5	2X M25X1.5
	3P+N+E	109	97	85	51	112	143	141	M25X1.5	2X M25X1.5
32A	2P+E	126	113	102	65	130	159	156	M32X1.5	2X M32X1.5
	3P+E	126	113	102	65	130	159	156	M32X1.5	2X M32X1.5
	3P+N+E	126	113	102	65	130	162	158	M32X1.5	2X M32X1.5



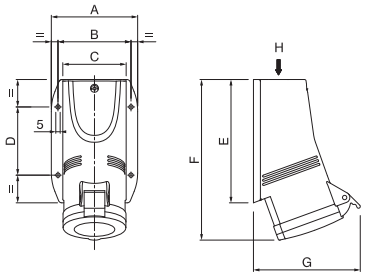
TOP VERSION - IP66/IP67

		A	B	C	D	E	F	G	H	I
16A	2P+E	94	80	70	/	96	131	110	M20X1.5	M20X1.5
	3P+E	109	97	85	51	112	146	134	M25X1.5	2X M25X1.5
	3P+N+E	109	97	85	51	112	150	135	M25X1.5	2X M25X1.5
32A	2P+E	126	113	102	65	130	166	151	M32X1.5	2X M32X1.5
	3P+E	126	113	102	65	130	166	151	M32X1.5	2X M32X1.5
	3P+N+E	126	113	102	65	130	167	152	M32X1.5	2X M32X1.5



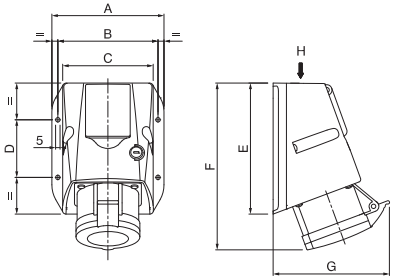
BASE VERSION - IP44

		A	B	C	D	E	F	G	H
16A	2P+E	76	63	52	/	103	133	98	M20X1.5
	3P+E	91	76	65	60	123	155	103	M25X1.5
	3P+N+E	91	76	65	60	123	157	110	M25X1.5
32A	2P+E	99	84	72	78	141	182	115	M32X1.5
	3P+E	99	84	72	78	141	182	115	M32X1.5
	3P+N+E	99	84	72	78	141	184	122	M32X1.5



COMBI VERSION - IP44

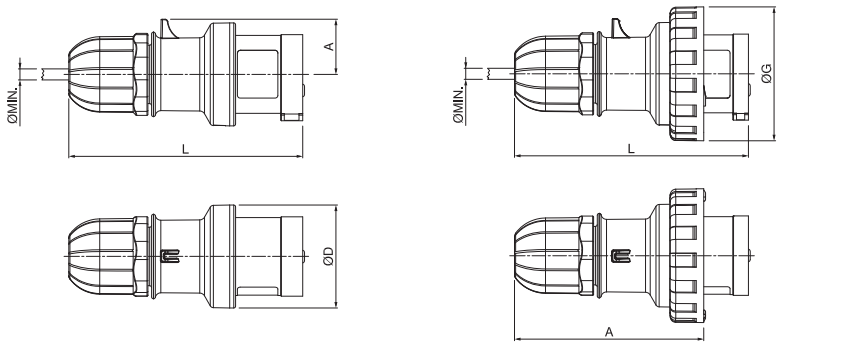
		A	B	C	D	E	F	G	H
16A	2P+E	126	113	102	65	1481	188	131	M32X1.5
	3P+E	126	113	102	65	4814	188	131	M32X1.5
	3P+N+E	126	113	102	65	8	188	131	M32X1.5
32A	2P+E	126	113	102	65	148	188	131	M32X1.5
	3P+E	126	113	102	65	148	188	131	M32X1.5
	3P+N+E	126	113	102	65	148	188	131	M32X1.5



(Dimensions in mm)

DIMENSIONS

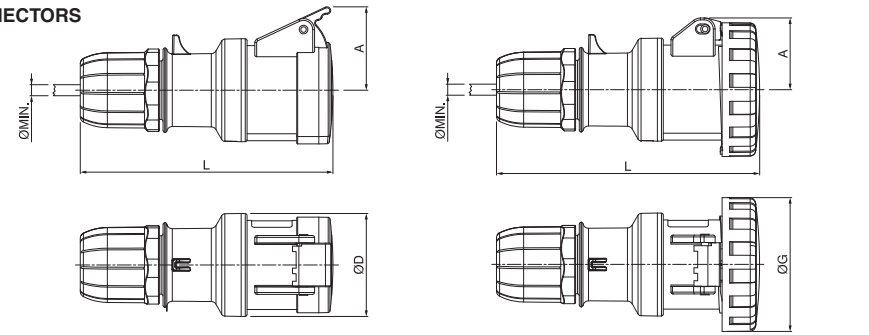
PLUGS



IP44		A	Ø D	L Min	Ø Min
16A	2P+E	30	56	128	6
	3P+E	34	60	135	6
	3P+N+E	38	65	153	9
32A	2P+E	40	65	162	9
	3P+E	40	65	162	9
	3P+N+E	45	73	176	13

IP66/IP67		A	Ø G	L Min	Ø Min
16A	2P+E	103	73	128	6
	3P+E	110	81	135	6
	3P+N+E	129	88	153	9
32A	2P+E	131	93	162	9
	3P+E	131	93	162	9
	3P+N+E	145	101	176	13
63A		160	112	220	17
125A		202	128	272	26

CONNECTORS

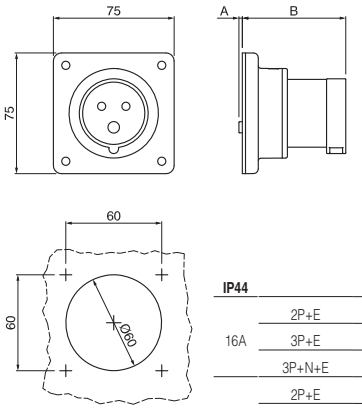


IP44		A	Ø D	L Min	Ø Min
16A	2P+E	46	56	138	6
	3P+E	49	60	145	6
	3P+N+E	54	65	165	9
32A	2P+E	54	65	175	9
	3P+E	54	65	175	9
	3P+N+E	59	73	190	13

IP66/IP67		A	Ø G	L Min	Ø Min
16A	2P+E	39	73	141	6
	3P+E	43	81	148	6
	3P+N+E	51	88	168	9
32A	2P+E	56	93	178	9
	3P+E	56	93	178	9
	3P+N+E	52	101	195	13
63A		57,5	112	230	17
125A		64,25	128	288	26

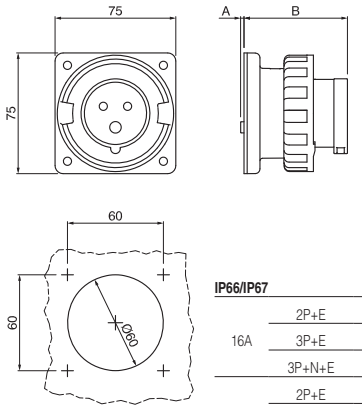
(Dimensions in mm)

APPLIANCE INLETS - IP44



IP44		A	B
16A	2P+E	2	65
	3P+E	2	65
	3P+N+E	2	65
32A	2P+E	19	73
	3P+E	19	73
	3P+N+E	19	73

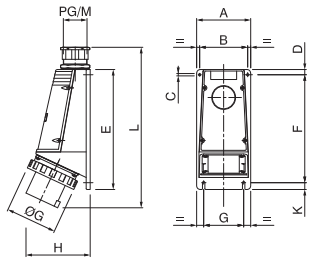
APPLIANCE INLETS - IP66/IP67



IP66/IP67		A	B
16A	2P+E	2	65
	3P+E	2	65
	3P+N+E	2	65
32A	2P+E	19	73
	3P+E	19	73
	3P+N+E	19	73

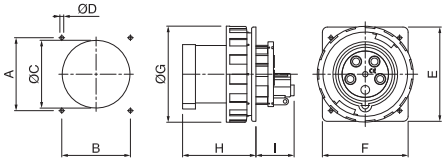
APPLIANCE INLETS - IP66/IP67

		A	B	ØC	ØD	E	F	ØG	H	I
63A	2P+E	85	80	79	4.5	110	100	112	88.5	44.5
	3P+E	85	80	79	4.5	110	100	112	88.5	44.5
	3P+N+E	80	85	79	4.5	110	100	112	88.5	44.5
125A	2P+E	100	100	90	6	114	114	128.5	97	53.5
	3P+E	100	100	90	6	114	114	128.5	97	53.5
	3P+N+E	100	100	90	6	114	114	128.5	97	53.5



APPLIANCE INLETS - IP66/IP67

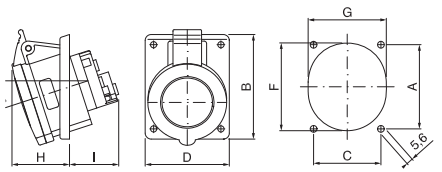
		A	B	C	D	E	F	G	H	K	L	PG/M	ØG
63A	2P+E	120	200	45	137	235	205	80	131	15	267	29/32	112
	3P+E	123	205	46	141	235	205	80	131	15	267	29/32	112
	3P+N+E	120	203	45	141	235	205	80	131	15	267	29/32	112
125A	2P+E	124	215	46	151	300	270	100	159	171	346	48/63	128
	3P+E	120	223	45	160	300	270	100	159	17	346	48/63	128
	3P+N+E	126	220	46	154	300	270	100	159	17	346	48/63	128



(Dimensions in mm)

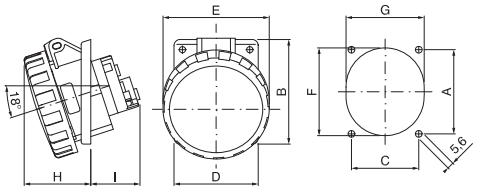
DIMENSIONS

PANEL MOUNTING SOCKET OUTLETS - ANGLED - IP44



		A	B	C	D	F	G	H	I
16A	2P+E	70	87	56	70	73	65	45	40
	3P+E	70	87	56	70	73	65	46	40
	3P+N+E	70	87	56	70	73	65	48	41
32A	2P+E	90	106	68	84	87	76	52	60
	3P+E	90	106	68	84	87	76	52	60
	3P+N+E	90	106	68	84	87	76	54	61

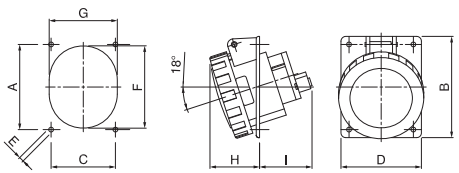
PANEL MOUNTING SOCKET OUTLETS - ANGLED - IP66/IP67



		A	B	C	D	E	F	G	H	I
16A	2P+E	70	87	56	70	73	73	65	52	40
	3P+E	70	87	56	70	81	73	65	54	40
	3P+N+E	70	87	56	70	88	73	65	55	41
32A	2P+E	90	106	68	84	93	87	76	61	60
	3P+E	90	106	68	84	93	87	76	61	60
	3P+N+E	90	106	68	84	101	87	76	63	61

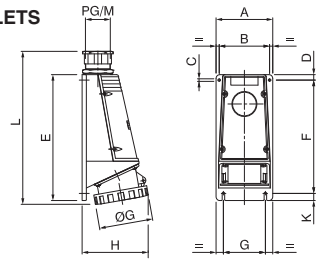
PANEL MOUNTING SOCKET OUTLETS - IP66/IP67

		A	B	C	D	E	F	G	H	I
63A	2P+E	85	110	80	100	4.5	92	80	63	89
	3P+E	85	110	80	100	4.5	92	80	63	89
	3P+N+E	85	110	80	100	4.5	92	80	63	89
125A	2P+E	90	114	90	114	6	104	92	92	101
	3P+E	90	114	90	114	6	104	92	92	101
	3P+N+E	90	114	90	114	6	104	92	92	101



REDUCED FLANGE PANEL MOUNTING SOCKET OUTLETS IP66/IP67

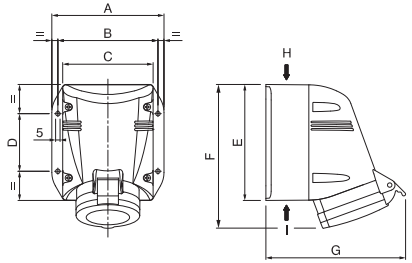
		A	B	C	D	E	F	G	H	K	L	PG/M	ØG
63A	2P+E	115	96	6	10	235	205	80	125	15	267	29/32	112
	3P+E	115	96	6	10	235	205	80	125	15	267	29/32	112
	3P+N+E	115	96	6	10	235	205	80	125	15	267	29/32	112
125A	2P+E	135	120	6	13	300	270	100	157	17	346	48/63	128
	3P+E	135	120	6	13	300	270	100	157	17	346	48/63	128
	3P+N+E	135	120	6	13	300	270	100	157	17	346	48/63	128



(Dimensions in mm)

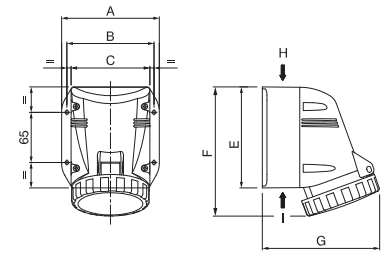
TOP VERSION - IP44

		A	B	C	D	E	F	G	H	I
16A	2P+E	94	80	70	/	96	126	119	M20X1.5	M20X1.5
	3P+E	109	97	85	51	112	140	140	M25X1.5	2X M25X1.5
	3P+N+E	109	97	85	51	112	143	141	M25X1.5	2X M25X1.5
32A	2P+E	126	113	102	65	130	159	156	M32X1.5	2X M32X1.5
	3P+E	126	113	102	65	130	159	156	M32X1.5	2X M32X1.5
	3P+N+E	126	113	102	65	130	162	158	M32X1.5	2X M32X1.5



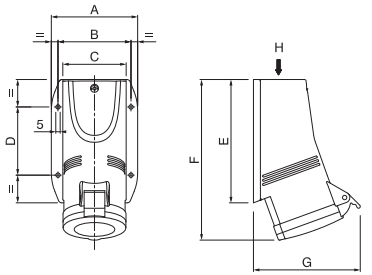
TOP VERSION - IP66/IP67

		A	B	C	D	E	F	G	H	I
16A	2P+E	94	80	70	/	96	131	110	M20X1.5	M20X1.5
	3P+E	109	97	85	51	112	146	134	M25X1.5	2X M25X1.5
	3P+N+E	109	97	85	51	112	150	135	M25X1.5	2X M25X1.5
32A	2P+E	126	113	102	65	130	166	151	M32X1.5	2X M32X1.5
	3P+E	126	113	102	65	130	166	151	M32X1.5	2X M32X1.5
	3P+N+E	126	113	102	65	130	167	152	M32X1.5	2X M32X1.5



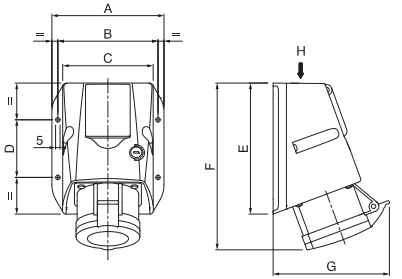
BASE VERSION - IP44

		A	B	C	D	E	F	G	H
16A	2P+E	76	63	52	/	103	133	98	M20X1.5
	3P+E	91	76	65	60	123	155	103	M25X1.5
	3P+N+E	91	76	65	60	123	157	110	M25X1.5
32A	2P+E	99	84	72	78	141	182	115	M32X1.5
	3P+E	99	84	72	78	141	182	115	M32X1.5
	3P+N+E	99	84	72	78	141	184	122	M32X1.5



COMBI VERSION - IP44

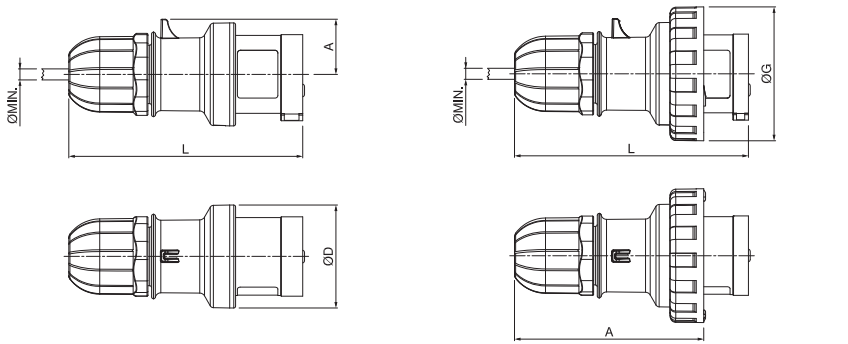
		A	B	C	D	E	F	G	H
16A	2P+E	126	113	102	65	1481	188	131	M32X1.5
	3P+E	126	113	102	65	4814	188	131	M32X1.5
	3P+N+E	126	113	102	65	8	188	131	M32X1.5
32A	2P+E	126	113	102	65	148	188	131	M32X1.5
	3P+E	126	113	102	65	148	188	131	M32X1.5
	3P+N+E	126	113	102	65	148	188	131	M32X1.5



(Dimensions in mm)

DIMENSIONS

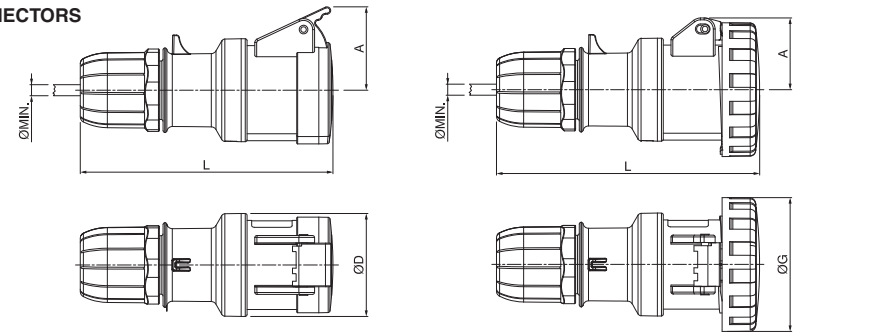
PLUGS



IP44		A	Ø D	L Min	Ø Min
16A	2P+E	30	56	128	6
	3P+E	34	60	135	6
	3P+N+E	38	65	153	9
32A	2P+E	40	65	162	9
	3P+E	40	65	162	9
	3P+N+E	45	73	176	13

IP66/IP67		A	Ø G	L Min	Ø Min
16A	2P+E	103	73	128	6
	3P+E	110	81	135	6
	3P+N+E	129	88	153	9
32A	2P+E	131	93	162	9
	3P+E	131	93	162	9
	3P+N+E	145	101	176	13
63A		160	112	220	17
125A		202	128	272	26

CONNECTORS

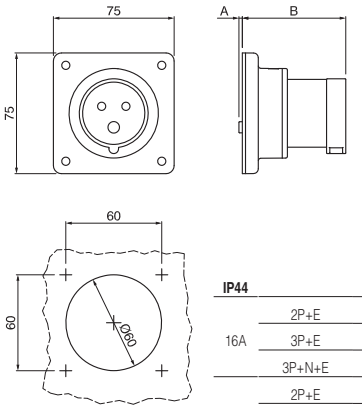


IP44		A	Ø D	L Min	Ø Min
16A	2P+E	46	56	138	6
	3P+E	49	60	145	6
	3P+N+E	54	65	165	9
32A	2P+E	54	65	175	9
	3P+E	54	65	175	9
	3P+N+E	59	73	190	13

IP66/IP67		A	Ø G	L Min	Ø Min
16A	2P+E	39	73	141	6
	3P+E	43	81	148	6
	3P+N+E	51	88	168	9
32A	2P+E	56	93	178	9
	3P+E	56	93	178	9
	3P+N+E	52	101	195	13
63A		57,5	112	230	17
125A		64,25	128	288	26

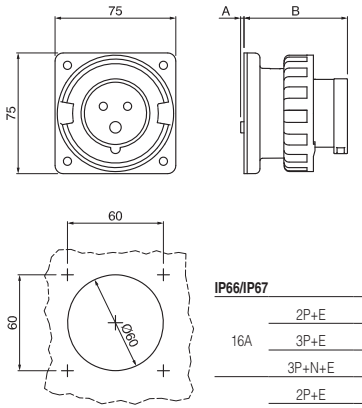
(Dimensions in mm)

APPLIANCE INLETS - IP44



IP44		A	B
16A	2P+E	2	65
	3P+E	2	65
	3P+N+E	2	65
32A	2P+E	19	73
	3P+E	19	73
	3P+N+E	19	73

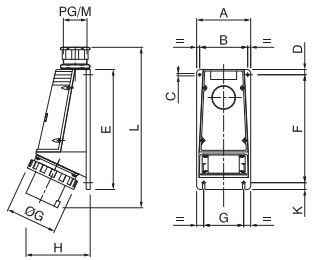
APPLIANCE INLETS - IP66/IP67



IP66/IP67		A	B
16A	2P+E	2	65
	3P+E	2	65
	3P+N+E	2	65
32A	2P+E	19	73
	3P+E	19	73
	3P+N+E	19	73

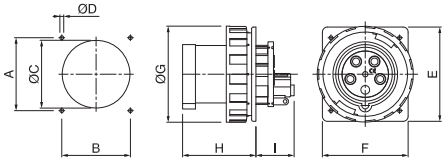
APPLIANCE INLETS - IP66/IP67

		A	B	ØC	ØD	E	F	ØG	H	I
63A	2P+E	85	80	79	4.5	110	100	112	88.5	44.5
	3P+E	85	80	79	4.5	110	100	112	88.5	44.5
	3P+N+E	80	85	79	4.5	110	100	112	88.5	44.5
125A	2P+E	100	100	90	6	114	114	128.5	97	53.5
	3P+E	100	100	90	6	114	114	128.5	97	53.5
	3P+N+E	100	100	90	6	114	114	128.5	97	53.5



APPLIANCE INLETS - IP66/IP67

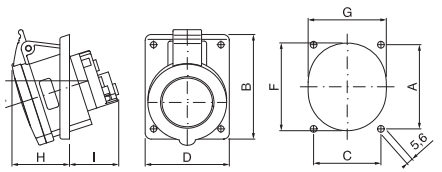
		A	B	C	D	E	F	G	H	K	L	PG/M	ØG
63A	2P+E	120	200	45	137	235	205	80	131	15	267	29/32	112
	3P+E	123	205	46	141	235	205	80	131	15	267	29/32	112
	3P+N+E	120	203	45	141	235	205	80	131	15	267	29/32	112
125A	2P+E	124	215	46	151	300	270	100	159	171	346	48/63	128
	3P+E	120	223	45	160	300	270	100	159	17	346	48/63	128
	3P+N+E	126	220	46	154	300	270	100	159	17	346	48/63	128



(Dimensions in mm)

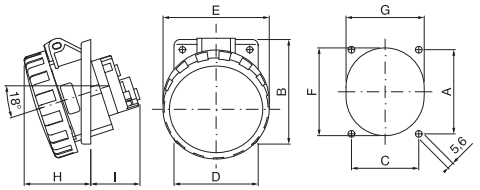
DIMENSIONS

PANEL MOUNTING SOCKET OUTLETS - ANGLED - IP44



		A	B	C	D	F	G	H	I
16A	2P+E	70	87	56	70	73	65	45	40
	3P+E	70	87	56	70	73	65	46	40
	3P+N+E	70	87	56	70	73	65	48	41
32A	2P+E	90	106	68	84	87	76	52	60
	3P+E	90	106	68	84	87	76	52	60
	3P+N+E	90	106	68	84	87	76	54	61

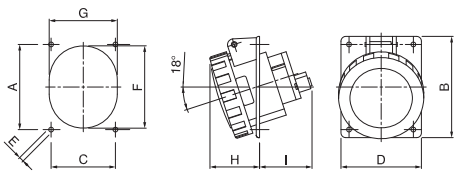
PANEL MOUNTING SOCKET OUTLETS - ANGLED - IP66/IP67



		A	B	C	D	E	F	G	H	I
16A	2P+E	70	87	56	70	73	73	65	52	40
	3P+E	70	87	56	70	81	73	65	54	40
	3P+N+E	70	87	56	70	88	73	65	55	41
32A	2P+E	90	106	68	84	93	87	76	61	60
	3P+E	90	106	68	84	93	87	76	61	60
	3P+N+E	90	106	68	84	101	87	76	63	61

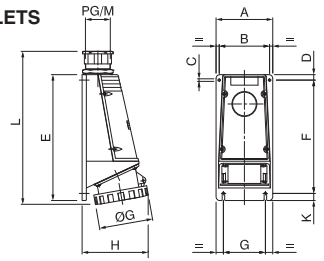
PANEL MOUNTING SOCKET OUTLETS - IP66/IP67

		A	B	C	D	E	F	G	H	I
63A	2P+E	85	110	80	100	4.5	92	80	63	89
	3P+E	85	110	80	100	4.5	92	80	63	89
	3P+N+E	85	110	80	100	4.5	92	80	63	89
125A	2P+E	90	114	90	114	6	104	92	92	101
	3P+E	90	114	90	114	6	104	92	92	101
	3P+N+E	90	114	90	114	6	104	92	92	101



REDUCED FLANGE PANEL MOUNTING SOCKET OUTLETS IP66/IP67

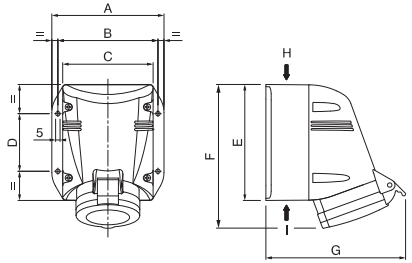
		A	B	C	D	E	F	G	H	K	L	PG/M	ØG
63A	2P+E	115	96	6	10	235	205	80	125	15	267	29/32	112
	3P+E	115	96	6	10	235	205	80	125	15	267	29/32	112
	3P+N+E	115	96	6	10	235	205	80	125	15	267	29/32	112
125A	2P+E	135	120	6	13	300	270	100	157	17	346	48/63	128
	3P+E	135	120	6	13	300	270	100	157	17	346	48/63	128
	3P+N+E	135	120	6	13	300	270	100	157	17	346	48/63	128



(Dimensions in mm)

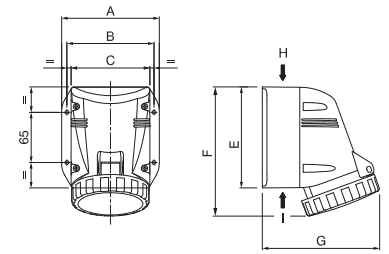
TOP VERSION - IP44

		A	B	C	D	E	F	G	H	I
16A	2P+E	94	80	70	/	96	126	119	M20X1.5	M20X1.5
	3P+E	109	97	85	51	112	140	140	M25X1.5	2X M25X1.5
	3P+N+E	109	97	85	51	112	143	141	M25X1.5	2X M25X1.5
32A	2P+E	126	113	102	65	130	159	156	M32X1.5	2X M32X1.5
	3P+E	126	113	102	65	130	159	156	M32X1.5	2X M32X1.5
	3P+N+E	126	113	102	65	130	162	158	M32X1.5	2X M32X1.5



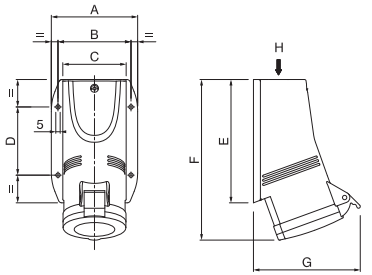
TOP VERSION - IP66/IP67

		A	B	C	D	E	F	G	H	I
16A	2P+E	94	80	70	/	96	131	110	M20X1.5	M20X1.5
	3P+E	109	97	85	51	112	146	134	M25X1.5	2X M25X1.5
	3P+N+E	109	97	85	51	112	150	135	M25X1.5	2X M25X1.5
32A	2P+E	126	113	102	65	130	166	151	M32X1.5	2X M32X1.5
	3P+E	126	113	102	65	130	166	151	M32X1.5	2X M32X1.5
	3P+N+E	126	113	102	65	130	167	152	M32X1.5	2X M32X1.5



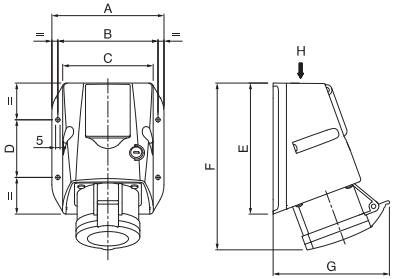
BASE VERSION - IP44

		A	B	C	D	E	F	G	H
16A	2P+E	76	63	52	/	103	133	98	M20X1.5
	3P+E	91	76	65	60	123	155	103	M25X1.5
	3P+N+E	91	76	65	60	123	157	110	M25X1.5
32A	2P+E	99	84	72	78	141	182	115	M32X1.5
	3P+E	99	84	72	78	141	182	115	M32X1.5
	3P+N+E	99	84	72	78	141	184	122	M32X1.5



COMBI VERSION - IP44

		A	B	C	D	E	F	G	H
16A	2P+E	126	113	102	65	1481	188	131	M32X1.5
	3P+E	126	113	102	65	4814	188	131	M32X1.5
	3P+N+E	126	113	102	65	8	188	131	M32X1.5
32A	2P+E	126	113	102	65	148	188	131	M32X1.5
	3P+E	126	113	102	65	148	188	131	M32X1.5
	3P+N+E	126	113	102	65	148	188	131	M32X1.5



(Dimensions in mm)