

Wall socket outlets

3 P + N + 

IEC/EN 60 309

switched
switched and fused
with or without interlocking
fused

Page

Wall socket outlets

with switch
IP 44 and IP 67
16 - 125 A

without interlocking
with interlocking

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Wall socket outlets

with DIN-rail
IP 44 and IP 67
16 - 125 A

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Wall socket outlets

IP 44 and IP 67
complete with
MCB
RCD
Neozed
Diazed
NH or contactor

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2/53
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Wall socket outlets

with DIN-rail and switch
IP 44 and IP 67
with or without double interlocking

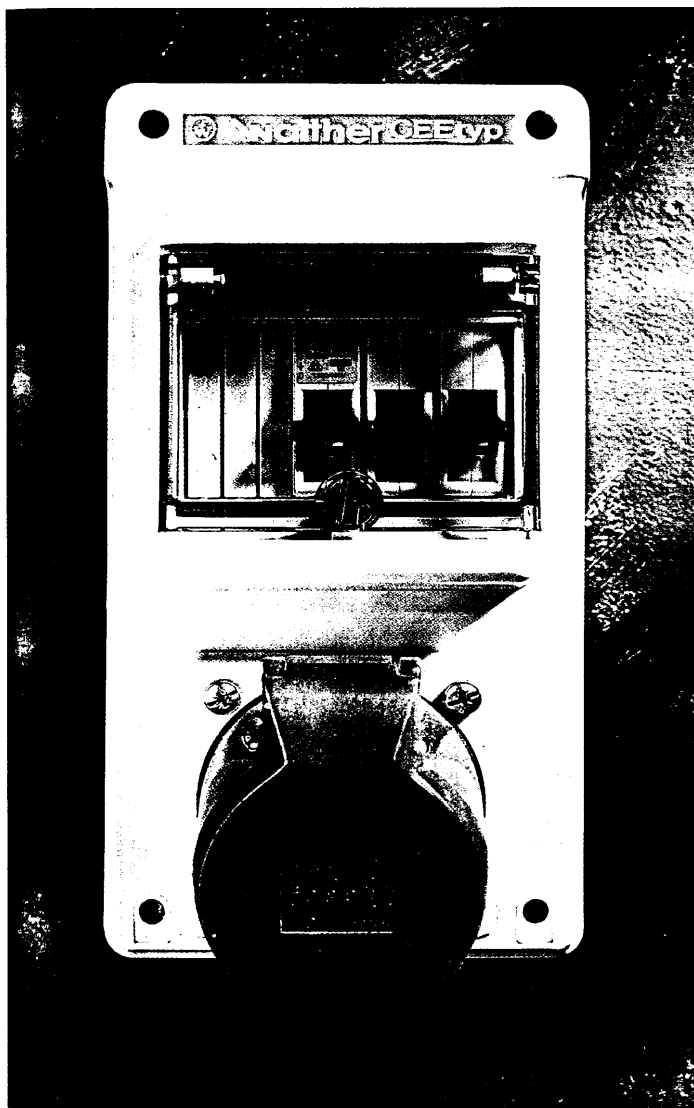
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Wall socket outlets fused

IP 44 and IP 67
with or without double interlocking
complete with
MCB
RCD
Neozed
Diazed

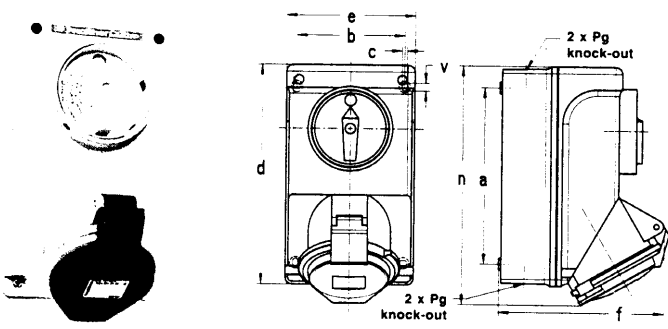
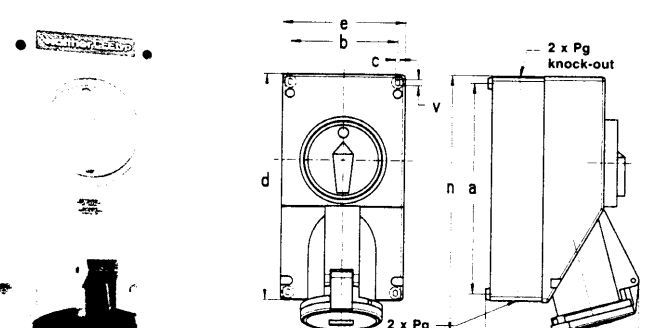
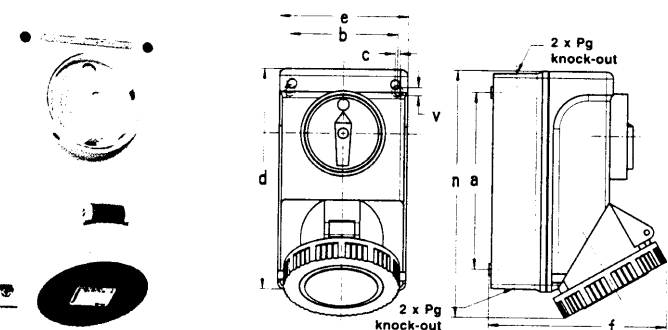
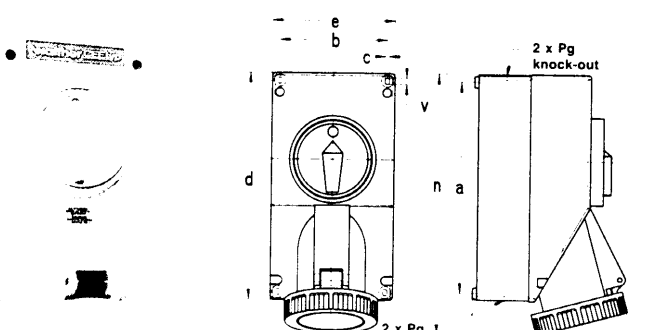
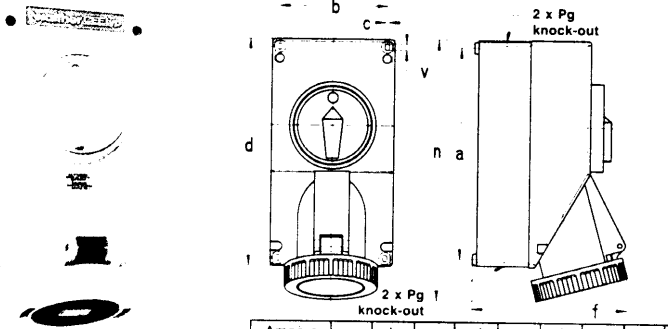
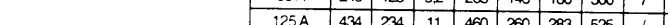
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Walther wall socket outlets
can also be supplied with
RCD, MCB or RCBO.

718 3604

Walther

Amp	Volt	Hz	IP Ident. colour + h	Part No.	Wall socket outlets with switch	3 P + N +  IEC/EN 60 309	 9	EAN No. 4015609...																														
IP44					with double interlocking, switch 3 pole		1 796	039814 039807 039838																														
16	400 110 230	50/60 50/60 50/60	6 4 9	531 25 16 531 25 14 531 25 19		<table><tr><th>Ampère</th><th>a</th><th>b</th><th>c</th><th>d</th><th>e</th><th>f</th><th>n</th><th>v</th><th>Pg</th></tr><tr><td>16 A</td><td>127</td><td>78</td><td>4.5</td><td>166</td><td>97</td><td>125</td><td>185</td><td>7</td><td>16</td></tr><tr><td>32 A</td><td>154</td><td>94</td><td>4.5</td><td>193</td><td>113</td><td>148</td><td>215</td><td>7</td><td>21</td></tr></table>	Ampère	a	b	c	d	e	f	n	v	Pg	16 A	127	78	4.5	166	97	125	185	7	16	32 A	154	94	4.5	193	113	148	215	7	21	1 1039	039869 039852 039883
Ampère	a	b	c	d	e	f	n	v	Pg																													
16 A	127	78	4.5	166	97	125	185	7	16																													
32 A	154	94	4.5	193	113	148	215	7	21																													
32	400 110 230	50/60 50/60 50/60	6 4 9	531 25 36 531 25 34 531 25 39			1 2482	039913 039890 039937																														
63	400 110 230	50/60 50/60 50/60	6 4 9	531 25 66 531 25 64 531 25 69			1 845	040124 166350 167982																														
16	400 110 230	50/60 50/60 50/60	6 4 9	531 35 16 531 35 14 531 35 19			1 1066	040131 166367 166374																														
32	400 110 230	50/60 50/60 50/60	6 4 9	531 35 36 531 35 34 531 35 39			1 2533	040155 040148 040179																														
63	400 110 230	50/60 50/60 50/60	6 4 9	531 35 66 531 35 64 531 35 69			1 8250	040186 167999 138845																														
125	400 110 230	50/60 50/60 50/60	6 4 9	531 35 76 531 35 74 531 35 79																																		

Material properties

Protection degrees

	PC/ABS	Polyamide	Rubber	Polyethylene
Chem. resistance				
1. Hydrocarbons				
n-hexane	O	+	-	+
four star petrol, containing aromatic chemicals	-	+	-	+
heating oil	O	+	O	+
petrol, free of aromatic chemicals	O	+	O	O
benzol	-	+	-	+
naphtalene	-	+	-	+
nitro benzol	-	+	-	O
toluol	-	+	-	+
2. Alcohols				
ethyl alcohol, 96%	O	O	+	+
isopropanol	O	O	+	O
phenol	-	-/Δ	-	+
glycol	O	O/Δ	+	+
glycerine	O	+	+	+
3. Ketones				
acetone	-	+	+	+
methylethylcetone	-	+	-	O
4. Acids (max. concentration)				
hydrochloric acid (20%)	+	-	O	+
nitric acid (10%)	+	-	O	O
phosphoric(30%)	+	-	+	+
sulphuric acid (30%)	+	-	+	+
citric acid (10%)	+	+	+	+
lactic acid (10%)	+	+	+	+
acetic acid (10%)	+	O	-	+
oelic acid	-	+	-	+
5. Bases				
anilin	-	O	-	+
sodium hydroxide (10%)	-	+	+	+
ammonia solution, diluted	-	+	+	+
6. Halogenes				
bromine	-	-	-	-
chlorine	-	-	-	+
iodine	-	-	+	+
7. Oils, greases				
soybean oil	-	+	-	+
olive oil	+	-	+	+
lard	-	+	-	+
butter	-	+	-	+
8. Salt solutions				
potassium carbonate, sat.	-	+	+	O
sodiumthio sulphate	+	+	+	+
sodium hypochlorid	+	-	-	O
sea water	+	+	+	+/O
9. Cleaning agents				
curd soap solution, 2%	+	+	O	+
detergent, e.g. Persil	O	+	+	+
cleaning agent, e.g. Dor	+	+	O	+/O
10. Other media				
diethyl ether	-	+	-	+
urea	+	O	+	+
trichloric ethylene	-	O	-	+
hydrogen superoxide, 30%	+	O	-	O

+ = resistance
 O = limited resistance
 - = no resistance
 Δ = soluble

IEC/EN 60 529, DIN/VDE

0470 T1 / 11.1992.

The protection is indicated by the IP-Code

IP = International Protection

Component	Nos. or letters	Protection of equipment	Protection of persons
Code Letters	IP		
First digit	1	≥ 50 mm diameter	Protection against touching with (not protected) hand
	2	≥ 12,5 mm diameter	finger
	3	≥ 2,5 mm diameter	tool
	4	≥ 1,0 mm diameter	wire
	5	damaging deposits of dust	wire
	6	any penetration of dust	wire
Second digit	0	Protection against the penetration of liquids (not protected)	
	1	vertical falling of water	
	2	waterdrops (15° angle)	
	3	spraying water	
	4	splashing water	
	5	water jets	
	6	heavy seas	
	7	immersion of water	
	8	submersion of water	

Source: DIN/VDE 0470 T 1/11.92

Hint:

According to the standard IEC/EN 60 309 CEEtyp plugs and sockets have the following level of protection:
 16 - 63 A: IP 44 and IP 67
 125 A : IP 67
 Zone 11 : min. IP 54 according to DIN/VDE 0165-2.91

Materials

Enclosures and contact carrying parts

are made of high-quality self-extinguishing plastic material which is free from cadmium, PVC and halogen. Suitable for ambient temperatures of -25°C to +40°C and up to +50°C under load.

As a rule plastic CEEtype plugs and sockets are made of polyamide. The enclosures for the combinations are made of PC/ABS, solid rubber or polyethylene.

For special applications as extreme heat, cold, or increase chemical resistance, Walther also supplies units with special plastic materials.

Contacts

are made of brass.

For plugs and sockets for voltages lower than 50 V, watertight (IP 67) plugs and sockets, Mondo plugs and sockets as well as plugs and sockets for harsh environments the contacts are nickel-plated. All steel components such as screws and springs

are zinc-plated and blue-chromed or nickel-plated. The cross-sectional areas of the terminals are in accordance with IEC/EN 60 309-2/97 table 107. The temperature rise of a contact may be +50°K under the test conditions being determined in table 8.

Size of connectable conductors

Ratings of the accessory		Internal connection ¹⁾							External earthing connection if any		
Voltage	Current	Flexible cables for plugs and connectors Solid or stranded cables for appliance inlets ²⁾				solid or stranded cables for socket outlets ²⁾					
V	A										
	Series I	Series II	mm ²	AWG	Terminal size	mm ²	AWG	Terminal size	mm ²	Terminal size	AWG
Not exceeding 50	16	20	4 to 10	12-8	6	4 to 10	12-8	5			
	32	30	4 to 10	12-8	6	4 to 10	12-8	5			
Exceeding 50	16	20	1 to 2,5	17-13	2	1,5 to 4	16-12	3 ³⁾	6	4	10
	32	30	2,5 to 6	13-10	5	2,5 to 10	13-8	5	10	5	8
	63	60	6 to 16	10-6	7	6 to 25	10-4	7	25	7	4
	125	100	16 to 50	6-1/0	9 ⁴⁾	25 to 70	4-2/0	9 ⁴⁾	25	7	4

¹⁾ Terminals for pilot conductors, if any, shall allow the connection of conductors having the same nominal cross-sectional areas as the terminals of 16 A accessories having rated operating voltages exceeding 50 V.

²⁾ Classification of conductors: according to IEC 60228, clause 2 and HD 383 S2 §2 solid (Class 1); stranded (Class 2); flexible (Class 5).

³⁾ For pillar terminals, size 2

⁴⁾ Compliance with terminal size 9 is provisionally not required.

Source: IEC/EN 60 309-2/97 Table 107

Preferred rated current Series I/II		Cross-sectional area(s) of conductors				
		Plugs, appliance inlets + Connectors		Socket outlets		
Duration	A	A	mm ²	AWG	mm ²	AWG
1 h	16/20	22	2,5 ¹⁾	13	4 ¹⁾	12
1 h	32/30	42	6 ¹⁾	10	10	8
2 h	63/60	rated current	16	6	25	4
2 h	125/100	rated current	50	1/0	70	2/0

¹⁾ For accessories having a rated operating voltage not exceeding 50 V, the values are increased to 10.

Source: IEC/EN 60 309-1 08.97 Table 8