

## Plugs and Sockets CES System Series 7575, 7578, 7579, 7581

- Series
  - 7575 16 A
  - 7578 32 A
  - 7579 63 A
  - 7581 125 A
- Low plugging and unplugging forces
- Optimum contact using laminated contacts
- Individually encapsulated pins, flexibly embedded
- Switches
  - with large handle
  - can be locked in 0 and 1 position
  - with clear switch position indication
  - with motor switching capacity AC21 and AC23 to VDE 0660 T107 (IEC 947-3)
  - with auxiliary contact for control and signalling purposes
- Write-on circuit label
- Fully colour-coded plug enclosure in colours for voltage and frequency to CEE publication 17

STAHL

The plugs and sockets in the CES system comply with CEE publication 17.

The small 16 A socket has switching capacity AC21 to VDE 0660 T107 (IEC 947-3). The interlock switch is incorporated into the bush carrier. The ability to plug the Ex-plug in non-Ex sockets is guaranteed, while operation of the Ex-socket using a non-Ex plug is reliably prevented.

# Zone 1 and Zone 2

**Selection table**

Version	Voltage [V]	Number of pins	Colour	Frequency [Hz]	h	Ordering code	Weight [kg]
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**16 A Small type socket for Zone 2**



<b>Extra low voltage</b>	20 – 25	 Z 0293X 2 P	violet	50/60	–	<b>7575/13–100</b>	0,8	
	20 – 25		violet	DC	10	<b>7575/13–110</b>	0,8	
	40 – 50		white	50/60	12	<b>7575/13–112</b>	0,8	
	<b>Low voltage</b>	20 – 25	 Z 0298X 3 P	violet	50/60	–	<b>7575/13–200</b>	0,8
		40 – 50		white	50/60	12	<b>7575/13–212</b>	0,8
		110 – 130		yellow	50/60	4	<b>7575/13–304</b>	0,8
220 – 240		blue	50/60	6	<b>7575/13–306</b>	0,8		
380 – 415		 Z 2281K (2 P +  )	red	50/60	9	<b>7575/13–309</b>	0,8	

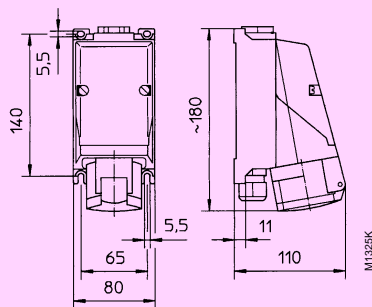
**16 A Plug for Zone 2**



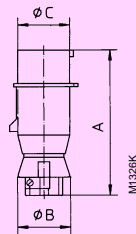
<b>Extra low voltage</b>	20 – 25	 Z 0293X 2 P	violet	50/60	–	<b>7575/12–100</b>	0,35	
	20 – 25		violet	DC	10	<b>7575/12–110</b>	0,35	
	40 – 50		white	50/60	12	<b>7575/12–112</b>	0,35	
	<b>Low voltage</b>	20 – 25	 Z 0298X 3 P	violet	50/60	–	<b>7575/12–200</b>	0,35
		40 – 50		white	50/60	12	<b>7575/12–212</b>	0,35
		110 – 130		yellow	50/60	4	<b>7575/12–304</b>	0,35
220 – 240		blue	50/60	6	<b>7575/12–306</b>	0,35		
380 – 415		 Z 2281K (2 P +  )	red	50/60	9	<b>7575/12–309</b>	0,35	

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**Dimensions, all dimensions in mm – subject to alteration**



**7575/13**  
Small socket


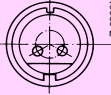

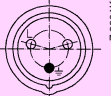
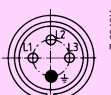

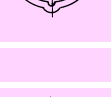


**7575/12**  
Plug


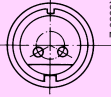
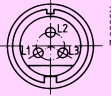
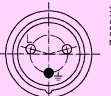



Type	A	B	C
7575/12–1.. (16 A, 2 P)	140	53,0	42,0
7575/12–2.. (16 A, 3 P)	140	53,0	42,0
7575/12–3.. (16 A, 2 P +  )	159	58,5	43,5

## Plugs and Sockets CES System 16 A, ...690 V Switch Sockets Series 7575/11 (Zone 2)

### Selection table

Version	Voltage [V]	Number of pins	Colour	Frequency [Hz]	h	Ordering code	Weight [kg]	
<b>Switch socket 16 A for Zone 2</b>								
	Extra low voltage	20–25		violet	50/60	–	<b>7575/11-100</b>	2,0
		20–25		violet	DC	10	<b>7575/11-110</b>	2,0
		40–50		white	50/60	12	<b>7575/11-112</b>	2,0
	Extra low voltage	20–25		violet	50/60	–	<b>7575/11-200</b>	2,0
		40–50		white	50/60	12	<b>7575/11-212</b>	2,0
	Low voltage	110–130		yellow	50/60	4	<b>7575/11-304</b>	2,0
		220–240		blue	50/60	6	<b>7575/11-306</b>	2,0
		380–415		red	50/60	9	<b>7575/11-309</b>	2,0
		110–130		yellow	50/60	4	<b>7575/11-404</b>	2,0
		220–240		blue	50/60	9	<b>7575/11-409</b>	2,0
		380–415		red	50/60	6	<b>7575/11-406</b>	2,0
500		black	50/60	7	<b>7575/11-407</b>	2,0		
660–690		black	50/60	5	<b>7575/11-405</b>	2,0		
Low voltage	110–130		yellow	50/60	4	<b>7575/11-504</b>	2,0	
	127–240		blue	50/60	9	<b>7575/11-509</b>	2,0	
	220–415		red	50/60	6	<b>7575/11-506</b>	2,0	
	500		black	50/60	7	<b>7575/11-507</b>	2,0	
	660–690		black	50/60	5	<b>7575/11-505</b>	2,0	

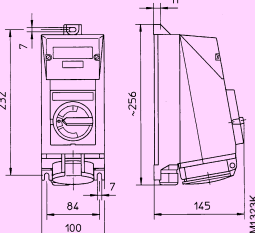
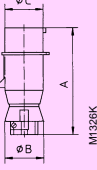
### 16 A Plug for Zone 2

	Extra low voltage	20–25		violet	50/60	–	<b>7575/12-100</b>	0,35
		20–25		violet	DC	10	<b>7575/12-110</b>	0,35
		40–50		white	50/60	12	<b>7575/12-112</b>	0,35
	Extra low voltage	20–25		violet	50/60	–	<b>7575/12-200</b>	0,35
		40–50		white	50/60	12	<b>7575/12-212</b>	0,35
	Low voltage	110–130		yellow	50/60	4	<b>7575/12-304</b>	0,35
		220–240		blue	50/60	6	<b>7575/12-306</b>	0,35
		380–415		red	50/60	9	<b>7575/12-309</b>	0,35
		110–130		yellow	50/60	4	<b>7575/12-404</b>	0,35
		220–240		blue	50/60	9	<b>7575/12-409</b>	0,35
		380–415		red	50/60	6	<b>7575/12-406</b>	0,35
500		black	50/60	7	<b>7575/12-407</b>	0,35		
660–690		black	50/60	5	<b>7575/12-405</b>	0,35		
Low voltage	110–130		yellow	50/60	4	<b>7575/12-504</b>	0,35	
	127–240		blue	50/60	9	<b>7575/12-509</b>	0,35	
	220–415		red	50/60	6	<b>7575/12-506</b>	0,35	
	500		black	50/60	7	<b>7575/12-507</b>	0,35	
	660–690		black	50/60	5	<b>7575/12-505</b>	0,35	

### Dimensions, all dimensions in mm – subject to alteration

Type	A	B	C
7575/12-1.. (16 A, 2 P)	140	53,0	42,0
7575/12-2.. (16 A, 3 P)	140	53,0	42,0
7575/12-3.. (16 A, 2 P + PE)	159	58,5	43,5
7575/12-4.. (16 A, 3 P + PE)	159	58,5	49,0
7575/12-5.. (16 A, 3 P + N + PE)	159	58,5	56,0




  

	<b>7575/11</b> 16 A Switch socket
	<b>7575/12</b> 16 A Plug




Selection table

Version	Voltage [V]	Number of pins	Colour	Frequency [Hz]	h	Ordering code	Weight [kg]
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32 A Switch socket for Zone 2

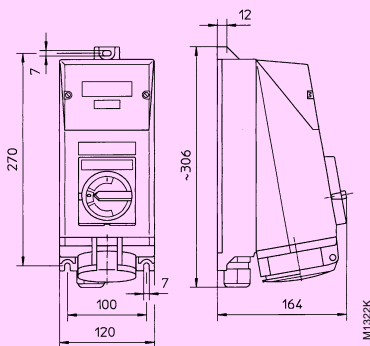
	110 – 130	 Z 0643K 4 P (3 P + $\perp$ )	yellow	50/60	4	7578/11-404	3,5
	220 – 240		blue	50/60	9	7578/11-409	3,5
	380 – 415		red	50/60	6	7578/11-406	3,5
	500		black	50/60	7	7578/11-407	3,5
	660 – 690		black	50/60	5	7578/11-405	3,5
	110 – 130	 Z 0642K 5 P (3 P + N + $\perp$ )	yellow	50/60	4	7578/11-504	3,5
	380 – 415		red	50/60	6	7578/11-506	3,5
	500		black	50/60	7	7578/11-507	3,5

32 A Plug for Zone 2

	110 – 130	 Z 0643K 4 P (3 P + $\perp$ )	yellow	50/60	4	7578/12-404	0,5
	220 – 240		blue	50/60	9	7578/12-409	0,5
	380 – 415		red	50/60	6	7578/12-406	0,5
	500		black	50/60	7	7578/12-407	0,5
	660 – 690		black	50/60	5	7578/12-405	0,5
	110 – 130	 Z 0642K 5 P (3 P + N + $\perp$ )	yellow	50/60	4	7578/12-504	0,5
	380 – 415		red	50/60	6	7578/12-506	0,5
	500		black	50/60	7	7578/12-507	0,5

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Dimensions, all dimensions in mm – subject to alteration









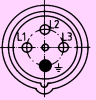



7578/11  
32 A Switch socket

Type	A	B	C
7578/12-4.. (32 A, 3 P + $\perp$ )	179	68,0	57,0
7578/12-5.. (32 A, 3 P + N + $\perp$ )	179	68,0	63,4

7578/12  
32 A Plug

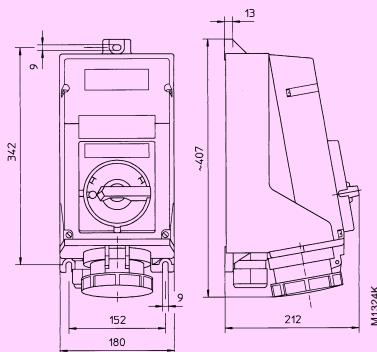
## Plugs and Sockets CES System 63 A, ...690 V Switch Sockets Series 7579/11 (Zone 2)

### Selection table

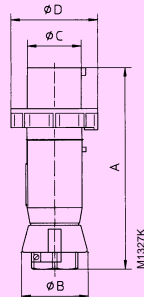
Version	Voltage [V]	Number of pins	Colour	Frequency [Hz]	h	Ordering code	Weight [kg]		
<b>63 A Switch socket for Zone 2</b>									
	220 – 240	 Z 0291X 4 P (3 P +  )	blue	50/60	9	<b>7579/11-409</b>	5,5		
	380 – 415		red	50/60	6	<b>7579/11-406</b>	5,5		
	500		black	50/60	7	<b>7579/11-407</b>	5,5		
	660 – 690		black	50/60	5	<b>7579/11-405</b>	5,5		
	220 – 415	 Z 0292X 5 P (3 P + N +  )	red	50/60	6	<b>7579/11-506</b>	5,5		
	500		black	50/60	7	<b>7579/11-507</b>	5,5		
	<b>63 A Plug for Zone 2</b>								
			220 – 240	 Z 0291X 4 P (3 P +  )	blue	50/60	9	<b>7579/12-409</b>	0,8
380 – 415		red	50/60		6	<b>7579/12-406</b>	0,8		
500		black	50/60		7	<b>7579/12-407</b>	0,8		
660 – 690		black	50/60		5	<b>7579/12-405</b>	0,8		
220 – 415		 Z 0292X 5 P (3 P + N +  )	red	50/60	6	<b>7579/12-506</b>	0,8		
500			black	50/60	7	<b>7579/12-507</b>	0,8		

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

### Dimensions, all dimensions in mm – subject to alteration



**7579/11**  
63 A Switch socket



**7579/12**  
63 A Plug

Type	A	B	C	D
7579/12-4.. (63 A, 3 P +  )	260	84	69,5	112
7579/12-5.. (63 A, 3 P + N +  )	260	84	69,5	112

**Selection table**

Version	Voltage [V]	Number of pins	Colour	Frequency [Hz]	h	Ordering code	Weight [kg]
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**125 A Switch socket for Zone 2**



220 – 240 380 – 415 500	 Z 0281X 4 P (3 P + )	blue	50/60	9	<b>7581/11-409</b>	22
		red	50/60	6	<b>7581/11-406</b>	22
		black	50/60	7	<b>7581/11-407</b>	22
220 – 415 500	 Z 0282X 5 P (3 P + N + )	red	50/60	6	<b>7581/11-506</b>	22
		black	50/60	7	<b>7581/11-507</b>	22

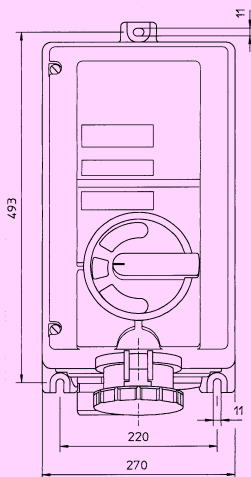
**125 A Plug for Zone 2**



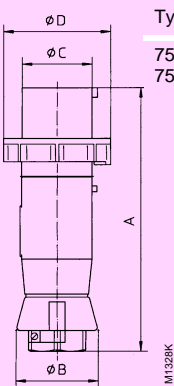
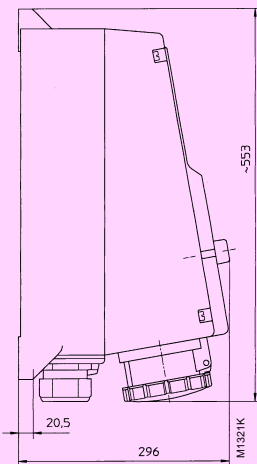
220 – 240 380 – 415 500	 Z 0281X 4 P (3 P + )	blue	50/60	9	<b>7581/12-409</b>	2
		red	50/60	6	<b>7581/12-406</b>	2
		black	50/60	7	<b>7581/12-407</b>	2
220 – 415 500	 Z 0282X 5 P (3 P + N + )	red	50/60	6	<b>7581/12-506</b>	2
		black	50/60	7	<b>7581/12-507</b>	2

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**Dimensions, all dimensions in mm – subject to alteration**



**7581/11**  
125 A Switch socket



**7581/12**  
125 A Plug

Type	A	B	C	D
7581/12-4.. (125 A, 3 P + )	309	96	81,5	125
7581/12-5.. (125 A, 3 P + N + )	309	96	81,5	125

## Plugs and Sockets CES System

16 A ... 125 A, Zone 2

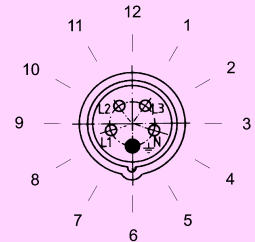
Series 7575/11, 7575/13, 7578/11, 7579/11, 7581/11

Technical data					
Socket	7575/13, 16 A	7575/11, 16 A	7578/11, 32 A	7579/11, 63 A	7581/11, 125 A
Explosion protection	Ex n AC	Ex n AC	Ex n AC	Ex n AC	Ex n AC
Test certificate	SEV Zone 2	SEV Zone 2	SEV Zone 2	SEV Zone 2	SEV Zone 2
Enclosure material	Polyester	Polyester	Polyester	Polyester	Polyester
Rated voltage	... 500 V	... 690 V + 5 %	>50 V...690 V+5 %	>50 V...690 V+5 %	>50 V...690 V+5 %
Rated current	16 A	16 A	32 A	63 A	125 A
Interlock switch	3 pole, switch with definite contacts (NC)	3 pole switch with isolating characteristics 1 auxiliary contact (ON – delayed, OFF – advanced)			
Handle	–	Actuator is lockable in 0 and I position.			
Switching capacity	AC 21 <sup>2)</sup> 16 A, 500 V~	AC 23 <sup>2)</sup> 16 A, 690 V~	AC 23 <sup>2)</sup> 32 A, 690 V~	AC 23 <sup>2)</sup> 63 A, 690 V~	AC 23 <sup>2)</sup> 125 A, 690 V~
	AC 3 <sup>1)</sup> 16 A, 380 V ~	AC 3 <sup>2)</sup> 16 A, 690 V ~	AC 3 <sup>2)</sup> 32 A, 690 V ~	AC 3 <sup>2)</sup> 63 A, 690 V ~	AC 3 <sup>2)</sup> 80 A, 690 V ~
	4 kW 220 V ~ 230 V ~ 240 V ~	4 kW 220 V ~ 230 V ~ 240 V ~	7,5 kW 220 V ~ 230 V ~ 240 V ~	18,5 kW 220 V ~ 230 V ~ 240 V ~	45 kW 220 V ~ 230 V ~ 240 V ~
		7,5 kW 380 V ~ 400 V ~ 415 V ~	15 kW 380 V ~ 400 V ~ 415 V ~	30 kW 380 V ~ 400 V ~ 415 V ~	75 kW 380 V ~ 400 V ~ 415 V ~
		11 kW 500 V ~ 660 V ~ 690 V ~	18,5 kW 500 V ~ 30 kW 660 V ~ 690 V ~	37 kW 500 V ~ 55 kW 660 V ~ 690 V ~	500 V ~ 660 V ~ 690 V ~
1) DIN VDE 660 (IEC 947-3) Part 107 12.92 <sup>1)</sup>					
2) DIN VDE 660 (IEC 947-3) Part 107 12.92					
3) DIN VDE 660 (IEC 947-4-1) Part 102 07.92	DC 3 <sup>3)</sup> 0,5 A, 220 V –	DC 3 <sup>3)</sup> 10 A, 110 V –			DC 5 <sup>3)</sup> 80 A, 220 V –
4) DIN VDE 660 Part 200 09.82	DC 21 <sup>4)</sup> 16 A, 110 V –		DC 11 <sup>4)</sup> 32 A, 110 V –	DC 11 <sup>4)</sup> 63 A, 110 V –	
Back-up fuse with therm. protection	according to operating instruction				
Terminals	2 x 4 mm <sup>2</sup> , additional slide-in terminal block with 2 supporting terminals, each for 2 x 4 mm <sup>2</sup>	2 x 4 mm <sup>2</sup>	2 x 10 mm <sup>2</sup>	1 x 35 mm <sup>2</sup> with cable lug 2 x 35 mm <sup>2</sup>	1 x 120 mm <sup>2</sup> with additional clamping strap 2 x 120 mm <sup>2</sup>
Degree of protection	IP 65 IP 54 at the hinged cover	IP 65 IP 66 possible upon request	IP 65	IP 66	IP 66
Ambient temperature	–20° C ... +40° C other on request	–20° C ... +40° C	–20° C ... +40° C	–20° C ... +40° C	–20° C ... +40° C
Cable entries					
Compression gland	bottom 1 x M 25	bottom 1 x M 25	bottom 1 x M 32	bottom 1 x M 50	bottom 1 x M 63
Stopping plug	top 1 x M 25	bottom 1 x M 25	bottom 1 x M 32	bottom 1 x M 25	bottom 1 x M 25 1 x M 63
Plug	7575/12		7578/12	7579/12	7581/12
	Technical data, see plugs				
Enclosure material	Polyamide		Polyamide	Polyamide	Polyamide
Degree of protection	IP 54		IP 54	IP 65	IP 65
Terminals	4 mm <sup>2</sup>		10 mm <sup>2</sup>	16 mm <sup>2</sup>	35 mm <sup>2</sup>
Cable entry	≤ 21 mm outer diameter (corresponding Pg 21)		≤ 28 mm outer diameter	≤ 36 mm outer diameter	≤ 50 mm outer diameter

Colours and arrangement of contact bushes

Operating voltage [V]	Frequency [Hz]	Colour	h-position		
			2 P +	3 P +	3 P + N +
110 ... 130	50/60	yellow	4	4	4
127/220 ... 138/240	50/60	blue	–	–	9
220 ... 240	50/60		6	9	–
220/380 ... 240/415	50/60	red	–	–	6
250/440	60		–	–	11
380 ... 415	50/60		9	6	–
380	50		–	3	–
220/380	50		–	–	3
440	60		–	11	–
500	50/60	black	7	7	7
660 ... 690	50/60		–	5	5
100 ... 300 Hz		green	–	10	–
300 ... 500 Hz			2	2	2

Example:  
h-position,  
Front view of the  
Socket

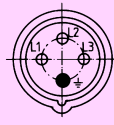


Marking of connections

Front view of socket

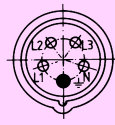


2 P +

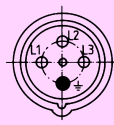


3 P +

16 A and 32 A



3 P + N +



3 P +

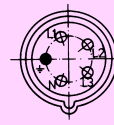
63 A and 125 A



3 P + N +



380 V = 6<sup>h</sup>



220 V = 9<sup>h</sup>

Accessories and spare parts

Designation	Illustration	Description	Ordering code	Weight [kg]	
Switch		For socket:	7575/11	80 080 86 02 0	0,17
			7575/16	80 060 05 01 0	0,30
			7578/11	85 430 07 01 0	1,50
			7578/16	85 430 36 01 0	1,50
			7579/11	85 430 16 02 0	1,80
			7581/11	85 480 17 02 0	3,70
Additional terminal block		for 7575/13 Additional slide-in terminal block with 2 supporting terminals, each for 2 x 4 mm <sup>2</sup>	85 750 11 66 0	0,030	
Protection cap		For plug 16 A	3 poles	85 759 07 14 0	0,050
			4 poles	85 759 06 14 0	0,055
			5 poles	85 759 05 14 0	0,060
		For plug 32 A	4 poles	85 789 03 14 0	0,070
			5 poles	85 789 02 14 0	0,080
			For plug 63 A	4/5 poles	85 798 01 14 0
For plug 125 A	4/5 poles	85 818 01 14 0	0,120		