



Plugs and Sockets CES System Series 8575, 8578, 8579, 8581

- Explosion protection to
 - CENELEC
 - IEC
 - NEC
- Series
 - 8575 16 A
 - 8578 32 A
 - 8579 63 A
 - 8581 125 A
- Low plugging and unplugging forces
- Optimal contact by means of laminated contacts
- Individually encapsulated pins, flexibly embedded
- Switches
 - with large handle
 - can be locked in 0 and 1 positions
 - with clear switch position indication
 - with motor switching capacity 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


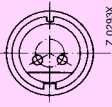
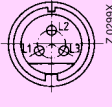
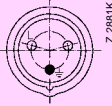


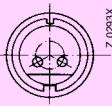
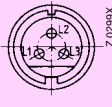
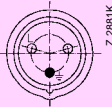

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The plugs and sockets in the CES system comply with CEE publication 17 and European standards EN 50 014.

The small 16 A socket has switching capacity AC 23 to VDE 0660 T107 (IEC 947-3). The interlock switch is incorporated into the bush carrier. The ability to plug the Ex-plug into non-Ex sockets is guaranteed, while operation of the Ex-socket using a non-Ex plug is reliably prevented.

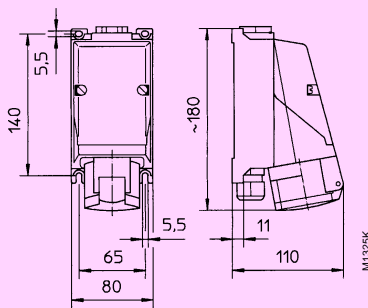
Zone 1 and Zone 2

Selection table

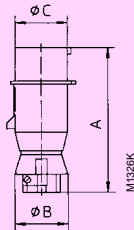
Version	Voltage [V]	Number of pins	Colour	Frequency [Hz]	h	Ordering code	Weight [kg]
16 A Small type socket 	Extra low voltage	 2 P	violet	50/60	–	8575/13–100	0,8
			violet	DC	10	8575/13–110	0,8
			white	50/60	12	8575/13–112	0,8
	Extra low voltage	 3 P	violet	50/60	–	8575/13–200	0,8
			white	50/60	12	8575/13–212	0,8
			Low voltage	 3 P (2 P + )	yellow	50/60	4
	blue	50/60			6	8575/13–306	0,8
	red	50/60			9	8575/13–309	0,8
	16 A Plug 	Extra low voltage	 2 P	violet	50/60	–	8575/12–100
violet				DC	10	8575/12–110	0,35
white				50/60	12	8575/12–112	0,35
Extra low voltage		 3 P	violet	50/60	–	8575/12–200	0,35
			white	50/60	12	8575/12–212	0,35
			Low voltage	 3 P (2 P + )	yellow	50/60	4
blue		50/60			6	8575/12–306	0,35
red		50/60			9	8575/12–309	0,35




Dimensions, all dimensions in mm – subject to alteration



8575/13
Small socket



8575/12
Plug



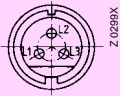
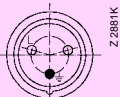






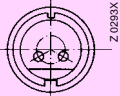
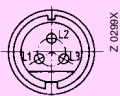
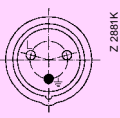







Type	A	B	C
8575/12–1.. (16 A, 2 P)	140	53,0	42,0
8575/12–2.. (16 A, 3 P)	140	53,0	42,0
8575/12–3.. (16 A, 2 P + )	159	58,5	43,5

Plugs and Sockets CES System




16 A, ...690 V Switch Socket

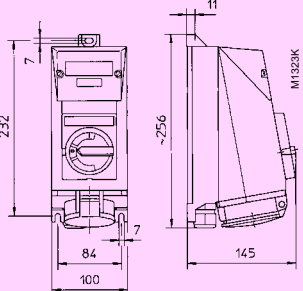
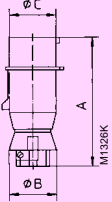
Series 8575/11

Selection table







Version	Voltage [V]	Number of pins	Colour	Frequency [Hz]	h	Ordering code	Weight [kg]	
16 A Switch socket 	Extra low voltage	 2 P <small>Z 0283X</small>	violet	50/60	–	8575/11-100	2,0	
			violet	DC	10	8575/11-110	2,0	
			white	50/60	12	8575/11-112	2,0	
	Low voltage	20 – 25 40 – 50	 3 P <small>Z 0289X</small>	violet	50/60	–	8575/11-200	2,0
				white	50/60	12	8575/11-212	2,0
		110 – 130 220 – 240 380 – 415	 3 P (2 P + ) <small>Z 2881K</small>	yellow	50/60	4	8575/11-304	2,0
				blue	50/60	6	8575/11-306	2,0
				red	50/60	9	8575/11-309	2,0
		110 – 130 220 – 240 380 – 415 500 660 – 690	 4 P (3 P + ) <small>Z 0643K</small>	Yellow	50/60	4	8575/11-404	2,0
				blue	50/60	9	8575/11-409	2,0
				red	50/60	6	8575/11-406	2,0
				black	50/60	7	8575/11-407	2,0
110 – 130 127 – 240 220 – 415 500 660 – 690	 5 P (3 P + N + ) <small>Z 0642K</small>	black	50/60	5	8575/11-405	2,0		
		yellow	50/60	4	8575/11-504	2,0		
		blue	50/60	9	8575/11-509	2,0		
		red	50/60	6	8575/11-506	2,0		
		black	50/60	7	8575/11-507	2,0		
16 A Plug 	Extra low voltage	 2 P <small>Z 0283X</small>	violet	50/60	–	8575/12-100	0,35	
			violet	DC	10	8575/12-110	0,35	
			white	50/60	12	8575/12-112	0,35	
	Low voltage	20 – 25 40 – 50	 3 P <small>Z 0289X</small>	violet	50/60	–	8575/12-200	0,35
				white	50/60	12	8575/12-212	0,35
		110 – 130 220 – 240 380 – 415	 3 P (2 P + ) <small>Z 2881K</small>	yellow	50/60	4	8575/12-304	0,35
				blue	50/60	6	8575/12-306	0,35
				red	50/60	9	8575/12-309	0,35
		110 – 130 220 – 240 380 – 415 500 660 – 690	 4 P (3 P + ) <small>Z 0643K</small>	yellow	50/60	4	8575/12-404	0,35
				blue	50/60	9	8575/12-409	0,35
				red	50/60	6	8575/12-406	0,35
				black	50/60	7	8575/12-407	0,35
110 – 130 127 – 240 220 – 415 500 660 – 690	 5 P (3 P + N + ) <small>Z 0642K</small>	black	50/60	5	8575/12-405	0,35		
		yellow	50/60	4	8575/12-504	0,35		
		blue	50/60	9	8575/12-509	0,35		
		red	50/60	6	8575/12-506	0,35		
		black	50/60	7	8575/12-507	0,35		
110 – 130 127 – 240 220 – 415 500 660 – 690	 5 P (3 P + N + ) <small>Z 0642K</small>	black	50/60	5	8575/12-505	0,35		

Dimensions, all dimensions in mm – subject to alteration

Type	A	B	C
8575/12-1.. (16 A, 2 P)	140	53,0	42,0
8575/12-2.. (16 A, 3 P)	140	53,0	42,0
8575/12-3.. (16 A, 2 P + )	159	58,5	43,5
8575/12-4.. (16 A, 3 P + )	159	58,5	49,0
8575/12-5.. (16 A, 3 P + N + )	159	58,5	56,0

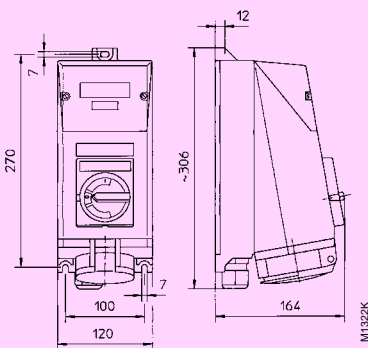
 <p>8575/12 16 A Switch socket</p>	 <p>8575/12 Plug</p>
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Selection table

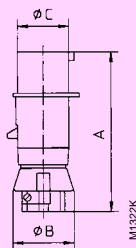
Version	Voltage [V]	Number of pins	Colour	Frequency [Hz]	h	Ordering code	Weight [kg]
32 A Switch socket 	110 – 130	 4 P (3 P + \perp)	yellow	50/60	4	8578/11-404	3,5
	220 – 240		blue	50/60	9	8578/11-409	3,5
	380 – 415		red	50/60	6	8578/11-406	3,5
	500		black	50/60	7	8578/11-407	3,5
	660 – 690		black	50/60	5	8578/11-405	3,5
	110 – 130		 5 P (3 P + N + \perp)	yellow	50/60	4	8578/11-504
380 – 415	red	50/60		6	8578/11-506	3,5	
500	black	50/60		7	8578/11-507	3,5	
32 A Plug 	110 – 130	 4 P (3 P + \perp)	yellow	50/60	4	8578/12-404	0,5
	220 – 240		blue	50/60	9	8578/12-409	0,5
	380 – 415		red	50/60	6	8578/12-406	0,5
	500		black	50/60	7	8578/12-407	0,5
	660 – 690		black	50/60	5	8578/12-405	0,5
	110 – 130		 5 P (3 P + N + \perp)	yellow	50/60	4	8578/12-504
380 – 415	red	50/60		6	8578/12-506	0,5	
500	black	50/60		7	8578/12-507	0,5	

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Dimensions, all dimensions in mm – subject to alteration



8578/11
32 A Switch socket



8578/12
32 A Plug





Type	A	B	C
8578/12-4.. (32 A, 3 P + \perp)	179	68,0	57,0
8578/12-5.. (32 A, 3 P + N + \perp)	179	68,0	63,4

Plugs and Sockets CES System

63 A, ...690 V Switch Socket

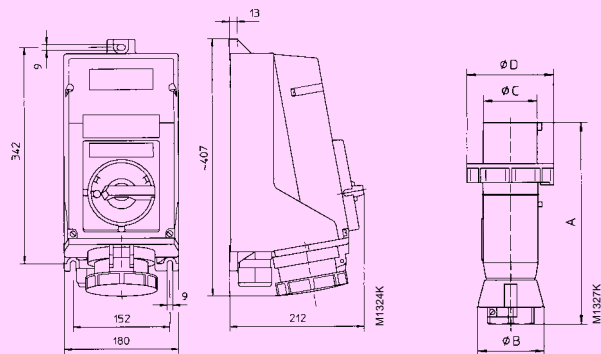
Series 8579/11

Selection table

Version	Voltage [V]	Number of pins	Colour	Frequency [Hz]	h	Ordering code	Weight [kg]	
63 A Switch socket 	220 – 240	 4 P (3 P + )	blue	50/60	9	8579/11-409	5,5	
	380 – 415		red	50/60	6	8579/11-406	5,5	
	500		black	50/60	7	8579/11-407	5,5	
	660 – 690		black	50/60	5	8579/11-405	5,5	
	220 – 415	 5 P (3 P + N + )	red	50/60	6	8579/11-506	5,5	
	500		black	50/60	7	8579/11-507	5,5	
63 A Plug 	220 – 240	 4 P (3 P + )	blue	50/60	9	8579/12-409	0,8	
	380 – 415		red	50/60	6	8579/12-406	0,8	
	500		black	50/60	7	8579/12-407	0,8	
	660 – 690		black	50/60	5	8579/12-405	0,8	
	220 – 415	 5 P (3 P + N + )	red	50/60	6	8579/12-506	0,8	
	500		black	50/60	7	8579/12-507	0,8	



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Dimensions, all dimensions in mm – subject to alteration



8579/11
63 A Switch socket

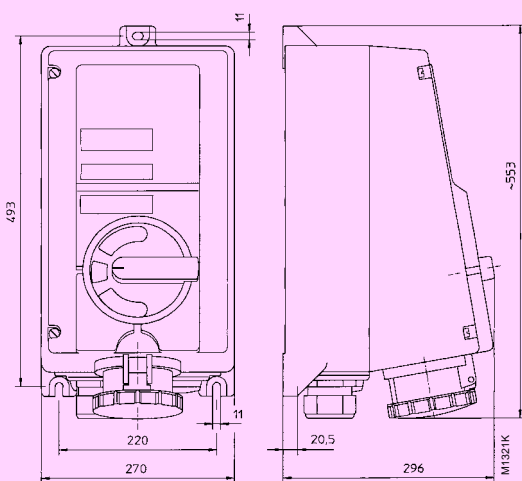
8579/12
63 A Plug

Type	A	B	C	D
8579/12-4.. (63 A, 3 P + )	260	84	69,5	112
8579/12-5.. (63 A, 3 P + N + )	260	84	69,5	112

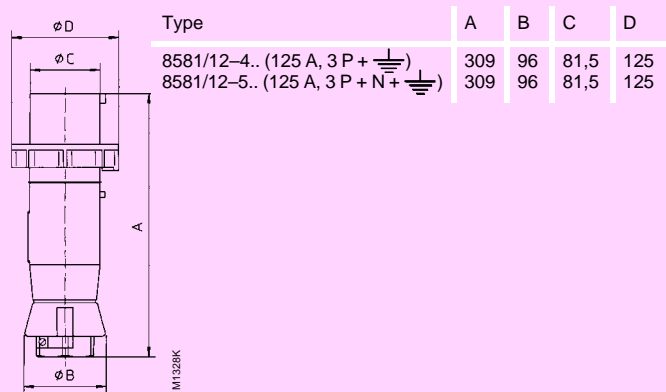
Selection table

Version	Voltage [V]	Number of pins	Colour	Frequency [Hz]	h	Ordering code	Weight [kg]
125 A Switch Socket 	220 – 240	 Z 0281X 4 P (3 P + )	blue	50/60	9	8581/11-409	22
	380 – 415		red	50/60	6	8581/11-406	22
	500		black	50/60	7	8581/11-407	22
	220 – 415	 Z 0282X 5 P (3 P + N + )	red	50/60	6	8581/11-506	22
	500		black	50/60	7	8581/11-507	22
125 A Plug 	220 – 240	 Z 0281X 4 P (3 P + )	blue	50/60	9	8581/12-409	2
	380 – 415		red	50/60	6	8581/12-406	2
	500		black	50/60	7	8581/12-407	2
	220 – 415	 Z 0282X 5 P (3 P + N + )	red	50/60	6	8581/12-506	2
	500		black	50/60	7	8581/12-507	2

Dimensions, all dimensions in mm – subject to alteration



8581/11
125 A Switch socket



8581/12
125 A Plug

Plugs and Sockets CES System

16 A ... 125 A, Zone 1

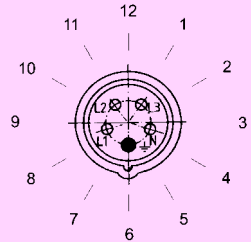
Series 8575/11, 8575/13, 8578/11, 8579/11, 8581/11

Technical data					
Socket	8575/13, 16 A	8575/11, 16 A	8578/11, 32 A	8579/11, 63 A	8581/11, 125 A
Explosion protection	EEx de IIC T6	EEx de IIC T6	EEx de IIC T6	EEx de IIC T6	EEx de IIC T6
Test certificate	PTB Nr. Ex-98.E.1022	PTB Nr. Ex-82/1047	PTB Nr. Ex-82/1081	PTB Nr. Ex-84/1004	PTB Nr. Ex-89.C.1014
	Other certificates:				
	VDE (Germany), FTZU (Czech Republic), CEPEL (Brazil), SEV (Switzerland), VNIIEF (Russia)	VDE (Germany), FTZU (Czech Republic), CEPEL (Brazil), SEV (Switzerland)	VDE (Germany), FTZU (Czech Republic), CEPEL (Brazil), SEV (Switzerland)	CEPEL (Brazil), SEV (Switzerland)	CEPEL (Brazil), SEV (Switzerland)
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 ²⁾ 16 A, 500 V~	AC 23 ²⁾ 16 A, 690 V~	AC 23 ²⁾ 32 A, 690 V~	AC 23 ²⁾ 63 A, 690 V~	AC 23 ²⁾ 125 A, 690 V~
	AC 3 ¹⁾ 16 A, 380 V ~	AC 3 ²⁾ 16 A, 690 V ~	AC 3 ²⁾ 32 A, 690 V ~	AC 3 ²⁾ 63 A, 690 V ~	AC 3 ²⁾ 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 ~ 500 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 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 ~
		DC 3 ³⁾ 0,5 A, 220 V –	DC 3 ³⁾ 10 A, 110 V –		
	DC 21 ⁴⁾ 16 A, 110 V –		DC 11 ⁴⁾ 32 A, 110 V –	DC 11 ⁴⁾ 63 A, 110 V –	
Back-up fuse with therm. protection	according to operating instructions				
Terminals	2 x 4 mm ² , Additional slide-in terminal block with 2 supporting terminals for each 2 x 4 mm ²	2 x 4 mm ²	2 x 10 mm ²	1 x 35 mm ² with cable lug 2 x 35 mm ²	1 x 120 mm ² with additional clamping saddle 2 x 120 mm ²
Degree of protection	IP 65	IP 65	IP 65	IP 66	IP 66
	IP 54 at the hinged cover				
	IP 66 possible upon request				
Ambient temperature	–20° C ... +40° C	–20° C ... +40° C	–20° C ... +40° C	–20° C ... +40° C	–20° C ... +40° C
	other on request				
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
	Cable entries are possible on the top or on the side wall (upon request)				
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	8575/12		8578/12	8579/12	8581/12
	Technical data, see plugs				
Enclosure material	Polyamide		Polyamide	Polyamide	Polyamide
Degree of protection	IP 54		IP 54	IP 65	IP 65
Terminals	4 mm ²		10 mm ²	16 mm ²	35 mm ²
Cable entry	≤ 21 mm outer diameter (corresponding Pg 21)		≤ 28 mm outer diameter	≤ 36 mm outer diameter	≤ 50 mm outer diameter

Colour 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:
Position clockwise,
Front view
of socket

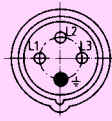


Marking of connections

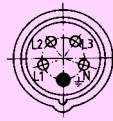
Front view of socket



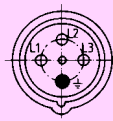
2 P +



3 P +
16 A and 32 A



3 P + N +



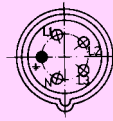
3 P +



3 P + N +



380 V = 6^h



220 V = 9^h

63 A and 125 A

Accessories and spare parts

Designation	Illustration	Description	Ordering code	Weight [kg]	
Switch		for socket:	8575/11	80 080 86 02 0	0,17
			8575/16	80 060 05 01 0	0,30
			8578/11	85 430 07 01 0	1,50
			8578/16	85 430 36 01 0	1,50
			8579/11	85 430 16 02 0	1,80
			8581/11	85 480 17 02 0	3,70
Additional terminal block		for 8575/13 Additional slide-in terminal block with 2 supporting terminals, each for 2 x 4 mm ²	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	0,100	
	for plug 125 A	4/5 poles	85 818 01 14 0	0,120	