

# Plug and Socket Devices CES 63 A

## Series 8579



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14507E00

- > Switch socket / plug 63 A
- > Large switch handle
  - with clear switch position indication
  - padlockable in 0- and I-position
- > Low insertion and withdrawal forces through individually encapsulated pins, flexibly embedded
- > Optimal contact by means of self-cleaning laminated contacts
- > With an integrated auxiliary contact for control and signalling purposes
- > With motor switching capacity AC-3 acc. to IEC 60947-3
- > IP66 in any application position



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The plug and socket devices of the Series SolConeX 8579 are 63 A versions. An important safety criterion is their reliable load disconnect switch with a highly visible position indication. Plugging in and unplugging is done easily and safely in 0-position. The plug and socket devices comply with IEC/EN 60309-1/-2 (CEE), IEC/EN 60079-0, IEC/EN 60079-1 and IEC/EN 60079-7. The ability to plug the Ex plugs into non-Ex sockets is guaranteed. In contrast, operation of the Ex sockets using non-Ex plugs is reliably prevented.




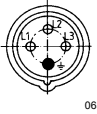

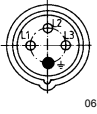


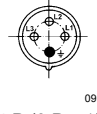

Zone	ATEX / IECEx					
	0	1	2	20	21	22
Installation in		x	x		x	x

**WebCode 8579A**

# Plug and Socket Devices CES 63 A Series 8579



Selection Table

Version	No. of poles	Voltage [V]	Colour code	Frequency Hz	h	Metal adapter	Order number	Weight kg		
<b>CES 63 A Switch socket</b>  01679E00	 06556E00 4 P (3 P + ⚡)	200 ... 250	blue	50 and 60	9	--	<b>8579/31-409</b>	7.800		
		380 ... 415	red	50 and 60	6	--	<b>8579/31-406</b>	7.800		
		440 ... 460	red	60	11	--	<b>8579/31-411</b>	7.800		
		480 ... 500	black	50 and 60	7	--	<b>8579/31-407</b>	7.800		
		600 ... 690	black	50 and 60	5	--	<b>8579/31-405</b>	7.800		
		120 / 208 ... 144 / 250	blue	50 and 60	9	--	<b>8579/31-509</b>	7.800		
	 06555E00 5 P (3 P + N + ⚡)	200 / 346 ... 240 / 415	red	50 and 60	6	--	<b>8579/31-506</b>	7.800		
		277 / 480 ... 288 / 500	black	50 and 60	7	--	<b>8579/31-507</b>	7.800		
		250 / 440 ... 265 / 460	red	60	11	--	<b>8579/31-511</b>	7.800		
		347 / 600 ... 400 / 690	black	50 and 60	5	--	<b>8579/31-505</b>	7.800		
		<b>For metal cable glands, versions with metal adapter</b>								
		 06556E00 4 P (3 P + ⚡)	380 ... 415	red	50 and 60	6	M32 x 1.5	<b>8579/31-406-S008</b>	7.800	
	380 ... 415		red	50 and 60	6	M40 x 1.5	<b>8579/31-406-S001</b>	7.800		
	380 ... 415		red	50 and 60	6	M50 x 1.5	<b>8579/31-406-S002</b>	7.800		
	 06555E00 5 P (3 P + N + ⚡)	200 / 346 ... 240 / 415	red	50 and 60	6	M32 x 1.5	<b>8579/31-506-S008</b>	7.800		
		200 / 346 ... 240 / 415	red	50 and 60	6	M40 x 1.5	<b>8579/31-506-S001</b>	7.800		
		200 / 346 ... 240 / 415	red	50 and 60	6	M50 x 1.5	<b>8579/31-506-S002</b>	7.800		
	<b>For metal cable glands, versions with metal adapter and earth connection*</b>									
 06556E00 4 P (3 P + ⚡)	380 ... 415	red	50 and 60	6	M32 x 1.5	<b>8579/31-406-S009</b>	7.800			
	380 ... 415	red	50 and 60	6	M40 x 1.5	<b>8579/31-406-S010</b>	7.800			
	380 ... 415	red	50 and 60	6	M50 x 1.5	<b>8579/31-406-S011</b>	7.800			
 06555E00 5 P (3 P + N + ⚡)	200 / 346 ... 240 / 415	red	50 and 60	6	M32 x 1.5	<b>8579/31-506-S009</b>	7.800			
	200 / 346 ... 240 / 415	red	50 and 60	6	M40 x 1.5	<b>8579/31-506-S010</b>	7.800			
	200 / 346 ... 240 / 415	red	50 and 60	6	M50 x 1.5	<b>8579/31-506-S011</b>	7.800			
<b>CES 63 A Plug</b>  01679E00	 09191E00 4 P (3 P + ⚡)	200 ... 250	blue	50 and 60	9	--	<b>8579/12-409</b>	0.880		
		380 ... 415	red	50 and 60	6	--	<b>8579/12-406</b>	0.880		
		440 ... 460	red	60	11	--	<b>8579/12-411</b>	0.940		
		480 ... 500	black	50 and 60	7	--	<b>8579/12-407</b>	0.880		
		600 ... 690	black	50 and 60	5	--	<b>8579/12-405</b>	0.880		
		120 / 208 ... 144 / 250	blue	50 and 60	9	--	<b>8579/12-509</b>	0.940		
	 09196E00 5 P (3 P + N + ⚡)	200 / 346 ... 240 / 415	red	50 and 60	6	--	<b>8579/12-506</b>	0.940		
		250 / 440 ... 265 / 460	red	60	11	--	<b>8579/12-511</b>	0.940		
		277 / 480 ... 288 / 500	black	50 and 60	7	--	<b>8579/12-507</b>	0.940		
		347 / 600 ... 400 / 690	black	50 and 60	5	--	<b>8579/12-505</b>	0.940		
		<b>Note</b>								
		- Please order the additional auxiliary contacts separately, for the order number see chapter "Accessories and Spare Parts". - Switch sockets with Ex i auxiliary contacts available on request. * Earth connection outside on the enclosure 70 mm <sup>2</sup>								

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## Series 8579



### Explosion Protection

#### Global (IECEx)

Gas and dust	IECEx PTB 06.0020 Ex d e IIC T6 Gb Ex d e IIC T5 Gb with intrinsically safe auxiliary contacts: Ex d e [ib Gb] IIC T6 Gb Ex d e [ib Gb] IIC T5 Gb Ex tb IIIC T60 °C ... T75 °C Db
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#### Europe (ATEX)

Gas and dust	PTB 01 ATEX 1150 ⊕ II 2 G Ex d e IIC T6 Gb ⊕ II 2 G Ex d e IIC T5 Gb with intrinsically safe auxiliary contacts: ⊕ II 2 G Ex d e [ib Gb] IIC T6 Gb ⊕ II 2 G Ex d e [ib Gb] IIC T5 Gb ⊕ II 2 D Ex tb IIIC T60 °C ... T75 °C Db
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#### Certifications and certificates

Certificates	IECEx, ATEX, Brazil (INMETRO), China (China-Ex), India (PESO), Canada (CSA), Kazakhstan (TR), Korea (KCs), Russia (TR), Serbia (SRPS), Ukraine (TR), USA (FM), Belarus (TR)
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### Technical Data

#### Electrical data

Main contacts	
Rated operational voltage	max. 690 V
Rated insulation voltage	max. 690 V
Rated operational current	63 A
	≥ 100 Hz, 50 A
Switching capacity	according to IEC/EN 60947-3:
	AC-3
	DC-23
	DC-1
	690 V, 63 A
	220 V, 63 A <sup>3)</sup>
	220 V, 63 A <sup>3)</sup>
	18.5 kW, 220 / 230 / 240 V
	120 V, 63 A <sup>2)</sup>
	120 V, 63 A <sup>2)</sup>
	30 kW, 380 / 400 / 415 V
	60 V, 63 A <sup>1)</sup>
	60 V, 63 A <sup>1)</sup>
	37 kW, 500 V
	55 kW, 690 V
	<sup>1)</sup> 1 contact
	<sup>2)</sup> 2 contacts connected in series
	<sup>3)</sup> 3 contacts connected in series
Short-circuit protection	
With thermal protection	80 A gG
Without thermal protection	63 A gG
Auxiliary contacts	
Rated operational voltage	250 V AC for unequal potential 125 V DC 400 V AC, for equal potential of both contacts 500 V AC, when 1 NC + 1 NO and the same potential of both contacts is used
Rated operational current	max. 6 A
Short-circuit protection	6 A, tripping characteristic gG acc. to IEC/EN 60269-1

#### Ambient conditions

Ambient temperature	see Explosion Protection data - 45 °C on request (internal lubrication with silicone grease)
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#### Mechanical data

Service life	
electrical	20,000 operating cycles
Mechanical	100,000 operating cycles
<b>Version</b>	<b>Socket 8579/31</b>
Material	
Enclosure material	glass-fibre reinforced polyester
Switch handle	polyacetate, can be locked in 0- and I-position
Degree of protection	IP66 acc. to IEC/EN 60529
<b>Version</b>	<b>Plug 8579/12</b>
Degree of protection	IP66 acc. to IEC/EN 60529
Enclosure material	Polyamide

E3

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### Technical Data

#### Mounting / Installation

Main contacts

**Version**

Connection cross-section

Tightening torque

**Version**

Connection cross-section

Tightening torque

Auxiliary contacts

Standard version

Possible auxiliary contacts

Connection cross-section

Tightening torque

Cable entries

Cable gland

Stopping plug

**Socket 8579/31**

max. 1 x 16 ... 50 mm<sup>2</sup>, finely stranded / stranded; 2 x 16 mm<sup>2</sup>

6 Nm

**Plug 8579/12**

2,5 ... 16 mm<sup>2</sup>

max. 2 Nm

**8080/1-1:** 1 NC contact + 1 NO contact in left installation slot

NO contact ON delayed

NO contact OFF leading (> 20 ms before opening of the main contacts)

NC contacts synchronizing

max. 2 auxiliary contact blocks of type 8080/1 (slow-action contacts)

**8080/1-1:** 1 NC contact / 1 NO contact

NO contact ON delayed <sup>1)</sup>

NO contact OFF advanced (> 20 ms before opening of the main contacts) <sup>1)</sup>

NC contact synchronizing

**8080/1-3:** 2 NC contacts <sup>2)</sup>

**8080/1-4:** 2 NO contacts <sup>2)</sup>

<sup>1)</sup> only in the left installation slot, synchronizing in the right installation slot

<sup>2)</sup> synchronizing in all installation slots

1.5 ... 2.5 mm<sup>2</sup> (AWG 16 ... 14) solid / finely stranded

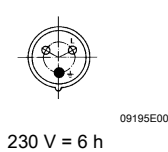
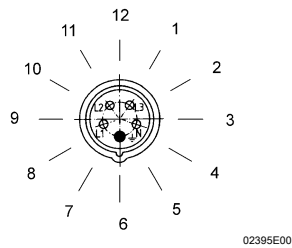
0.4 Nm

1 x M50 x 1.5, cable dia. range 23 ... 35 mm; max. 2 x M40 x 1.5

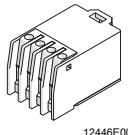

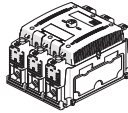

1 x M25 x 1.5

#### Arrangement of contacts and terminal markings

View from the front. The illustrations show the 6 h position.



#### Accessories and Spare Parts


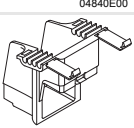

Designation	Figure	Description	Art. no.	Weight kg	
Auxiliary contact, Series 8080/1		1 NC contact + 1 NO contact (8080/1-1) <sup>1)</sup>	<b>168351</b>	0.026	
		2 NC contacts (8080/1-3) <sup>2)</sup>	<b>168356</b>	0.026	
		2 NO contacts (8080/1-4) <sup>2)</sup>	<b>168353</b>	0.026	
		The switching function of the auxiliary contact depends on the installation slot used. <sup>1)</sup> Left: delayed (ON), leading (OFF); Right: synchronizing <sup>2)</sup> Left and right: synchronizing			
Protective cap		protects the plug pins from pollution	<b>153261</b>	0.100	
Switch insert		8544/1-31L	<b>167239</b>	2.200	
Plastic cable gland		8161/7-M25-1707 7 ... 17 mm <sup>2</sup>	1 piece	<b>229918</b>	0.020
		8161/7-M50-3516 16 ... 35 mm <sup>2</sup>	1 piece	<b>229951</b>	0.091

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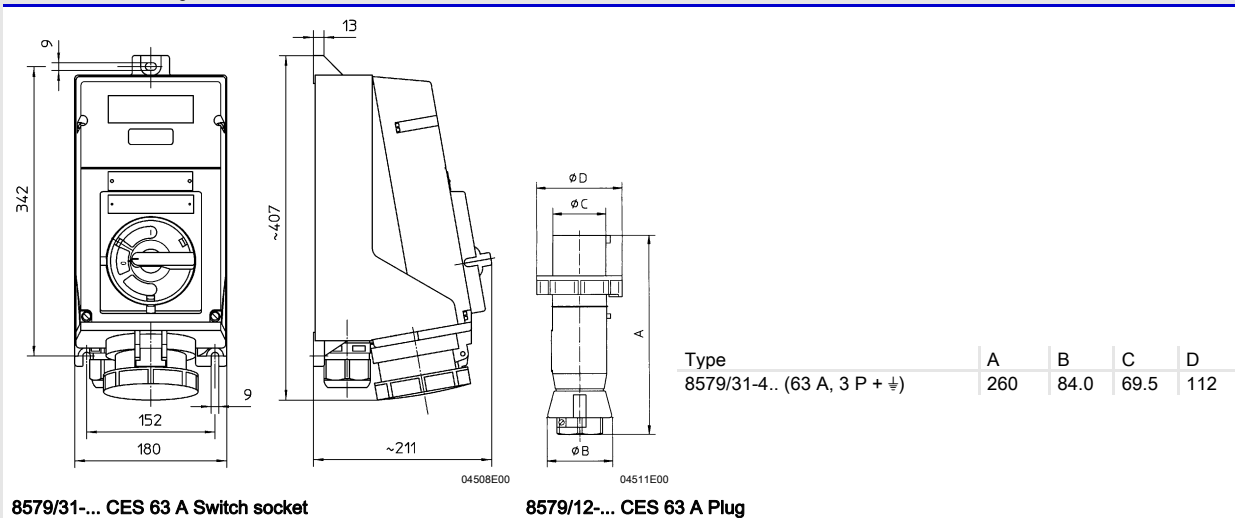


### Accessories and Spare Parts

Designation	Figure	Description	Art. no.	Weight kg
Stopping plug		8290/3-M25 x 1,5	143524	0.007
Ex i cover	 04840E00	Ex i cover for auxiliary contacts for use in Ex i circuits	168855	0.008
Auxiliary contact key	 14151E00	for removing the mounted auxiliary contact	201909	0.035

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### Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.