

Plug and Socket Devices SolConeX, 63 A Series 8579



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14507E00

- > 63 A versions
- > 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 motor switching capacity AC-3 acc. to IEC 60947-3
- > Easily retrofittable with auxiliary contacts for control and signalling purposes
- > IP66 in any application position
- > CES-compatible



E3

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.

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







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Series 8579



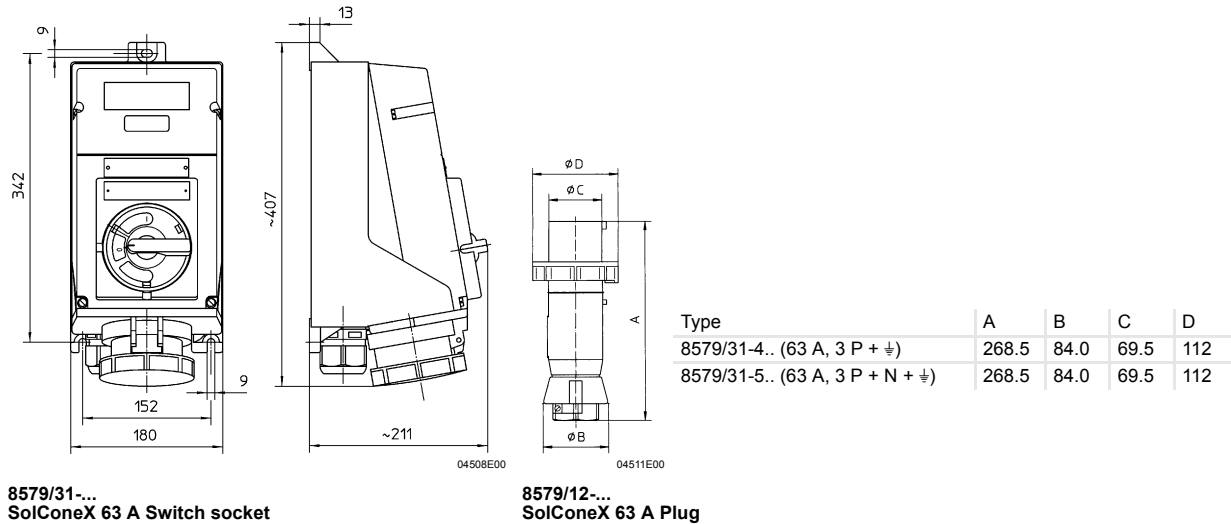
Selection Table

Version	No. of poles	Voltage [V]	Colour code	Frequency [Hz]	h	Metal adapter	Order number	Weight kg		
SolConeX 63 A Switch socket  01679E00	 06556E00 4 P (3 P + PE)	200 ... 250	blue	50 and 60	9	--	8579/31-409	7.800		
		380 ... 415	red	50 and 60	6	--	8579/31-406	7.800		
		440 ... 460	red	60	11	--	8579/31-411	7.800		
		480 ... 500	black	50 and 60	7	--	8579/31-407	7.800		
		600 ... 690	black	50 and 60	5	--	8579/31-405	7.800		
		For metal cable glands, versions with metal adapter								
		380 ... 415	red	50 and 60	6	M32 x 1.5	8579/31-406-S008	7.800		
		380 ... 415	red	50 and 60	6	M40 x 1.5	8579/31-406-S001	7.800		
		380 ... 415	red	50 and 60	6	M50 x 1.5	8579/31-406-S002	7.800		
		For metal cable glands, versions with metal adapter and earth connection*								
	380 ... 415	red	50 and 60	6	M32 x 1.5	8579/31-406-S009	7.800			
	380 ... 415	red	50 and 60	6	M40 x 1.5	8579/31-406-S010	7.800			
	380 ... 415	red	50 and 60	6	M50 x 1.5	8579/31-406-S011	7.800			
	 06555E00 5 P (3 P + N + PE)	120 / 208 ... 144 / 250	blue	50 and 60	9	--	8579/31-509	7.800		
		200 / 346 ... 240 / 415	red	50 and 60	6	--	8579/31-506	7.800		
		277 / 480 ... 288 / 500	black	50 and 60	7	--	8579/31-507	7.800		
		250 / 440 ... 265 / 460	red	60	11	--	8579/31-511	7.800		
		347 / 600 ... 400 / 690	black	50 and 60	5	--	8579/31-505	7.800		
		For metal cable glands, versions with metal adapter								
		200 / 346 ... 240 / 415	red	50 and 60	6	M32 x 1.5	8579/31-506-S008	7.800		
200 / 346 ... 240 / 415		red	50 and 60	6	M40 x 1.5	8579/31-506-S001	7.800			
200 / 346 ... 240 / 415		red	50 and 60	6	M50 x 1.5	8579/31-506-S002	7.800			
For metal cable glands, versions with metal adapter and earth connection*										
200 / 346 ... 240 / 415		red	50 and 60	6	M32 x 1.5	8579/31-506-S009	7.800			
200 / 346 ... 240 / 415		red	50 and 60	6	M40 x 1.5	8579/31-506-S010	7.800			
200 / 346 ... 240 / 415		red	50 and 60	6	M50 x 1.5	8579/31-506-S011	7.800			
SolConeX 63 A Plug  01675E00		 09191E00 4 P (3 P + PE)	200 ... 250	blue	50 and 60	9	--	8579/12-409	0.880	
	380 ... 415		red	50 and 60	6	--	8579/12-406	0.880		
	440 ... 460		red	60	11	--	8579/12-411	0.940		
	480 ... 500		black	50 and 60	7	--	8579/12-407	0.880		
	600 ... 690		black	50 and 60	5	--	8579/12-405	0.880		
	 09196E00 5 P (3 P + N + PE)	120 / 208 ... 144 / 250	blue	50 and 60	9	--	8579/12-509	0.940		
		200 / 346 ... 240 / 415	red	50 and 60	6	--	8579/12-506	0.940		
		250 / 440 ... 265 / 460	red	60	11	--	8579/12-511	0.940		
		277 / 480 ... 288 / 500	black	50 and 60	7	--	8579/12-507	0.940		
		347 / 600 ... 400 / 690	black	50 and 60	5	--	8579/12-505	0.940		
		Note								
		- Please order the 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 m ²								

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



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Explosion Protection

Device version	SolConeX 63 A	SolConeX 63 A
Marking		
Version	Switch socket 8579/31	Plug 8579/12
IECEX		
Gas explosion protection	Ex d e IIC T6 (Ta = - 30 ... + 40 °C) Ex d e IIC T5 (Ta = - 30 ... + 55 °C) with intrinsically safe auxiliary contacts: Ex d e [ib] IIC T6 (Ta = - 30 ... + 40 °C) Ex d e [ib] IIC T5 (Ta = - 30 ... + 55 °C)	Ex d e IIC
Dust explosion protection	Ex tD A21 IP66 T60 °C (Ta = - 30 ... + 40 °C) Ex tD A21 IP66 T75 °C (Ta = - 30 ... + 55 °C)	Ex tD A21 IP66
Europe (ATEX)		
Gas explosion protection	⊕ II 2 G Ex d e IIC T6 (Ta = - 30 ... + 40 °C) ⊕ II 2 G Ex d e IIC T5 (Ta = - 30 ... + 55 °C) with intrinsically safe auxiliary contacts: ⊕ II 2 G Ex d e [ib] IIC T6 (Ta = - 30 ... + 40 °C) ⊕ II 2 G Ex d e [ib] IIC T5 (Ta = - 30 ... + 55 °C)	⊕ II 2 G Ex d e IIC
Dust explosion protection	⊕ II 2 D Ex tD A21 IP66 T60 °C (Ta = - 30 ... + 40 °C) ⊕ II 2 D Ex tD A21 IP66 T75 °C (Ta = - 30 ... + 55 °C)	⊕ II 2 D Ex tD A21 IP66
Certificates		
Version	Switch socket 8579/31	Plug 8579/12
IECEX	IECEX PTB 06.0020	IECEX PTB 06.0020
Europe (ATEX)	PTB 01 ATEX 1150	PTB 01 ATEX 1150

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Technical Data

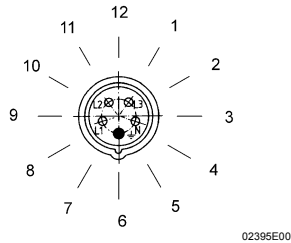
Device version	SolConeX 63 A	SolConeX 63 A
Electrical data		
Version	Switch socket 8579/31	Plug 8579/12
Main contacts		
Rated operational voltage	max. 690 V	max. 690 V
Rated insulation voltage	max. 630 V	max. 630 V
Rated operational current	63 A ≥ 100 Hz, 50 A	63 A ≥ 100 Hz, 50 A
Switching capacity	acc. to IEC/EN 60947-3; IEC/EN 60947-4: AC-3 690 V, 63 A 18,5 kW, 220 / 230 / 240 V 30 kW, 380 / 400 / 415 V 37 kW, 500 V 55 kW, 690 V DC-23 220 V, 63 A ³⁾ 120 V, 63 A ²⁾ 60 V, 63 A ¹⁾ DC-1 220 V, 63 A ³⁾ 120 V, 63 A ²⁾ 60 V, 63 A ¹⁾	--
Short-circuit protection	max. 80 A gG	max. 80 A gG
Auxiliary contacts		
Rated operational voltage	250 V AC / 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	10 A, tripping characteristic gG acc. to IEC/EN 60269-1	
Ambient Conditions		
Version	Switch socket 8579/31	Plug 8579/12
Ambient temperature	see Explosion Protection data - 45 °C on request (internal lubrication with silicone grease)	--
Mechanical data		
Version	Switch socket 8579/31	Plug 8579/12
Service life		
Electrical	20,000 operating cycles	--
Mechanical	100,000 operating cycles	--
Material		
Enclosure material	polyester	polyamide
Switch handle	polyacetate, can be locked in 0- and I-position	--
Degree of protection	IP66 acc. to IEC/EN 60529	IP66 acc. to IEC/EN 60529
Assembly / Installation		
Version	Switch socket 8579/31	Plug 8579/12
Main contacts		
Connection cross-section	16 ... 50 mm ² , finely stranded / stranded	max. 16 mm ²
Tightening torque	6 Nm	max. 2 Nm
Auxiliary contacts		
Possible auxiliary contacts	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 ¹⁾ NO contact OFF advanced (> 20 ms before opening of the main contacts) ¹⁾ NC contact synchronizing 8080/1-3 : 2 NC contacts ²⁾ 8080/1-4 : 2 NO contacts ²⁾ ¹⁾ only in the left installation slot, synchronizing in the right installation slot ²⁾ synchronizing in all installation slots	--
Connection cross-section	1.5 ... 2.5 mm ² (AWG 16 ... 14) solid / finely stranded	
Tightening torque	0.4 Nm	
Cable entries		
Cable gland	1 x M50 x 1.5, cable dia. range 23 ... 35 mm	--
Stopping plug	1 x M25 x 1.5	--

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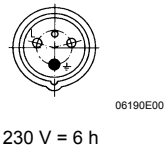


Arrangement of earth contact sleeves

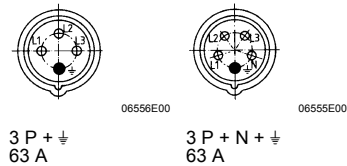
Example:
Clock hour position,
Front view of socket



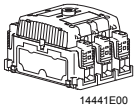
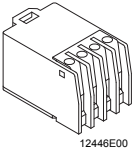




Example:
clock hour position



Marking of connections
front view of socket



Accessories and Spare Parts

Designation	Illustration	Description	Art. no.	Weight kg
Switch insert	 14441E00	8544/1-31L	167239	2.200
Auxiliary contact, Series 8080/1	 12446E00	1 NC contact + 1 NO contact (8080/1-1)	168351	0.026
		2 NC contacts (8080/1-3)	168356	0.026
		2 NO contacts (8080/1-4)	168353	0.026
		The switching function of the auxiliary contact depends on the installation slot used, see chapter "Technical Data"		0.000
Protective cap	 05365E00	for plug 63 A 4/5 poles	153261	0.100
Plastic cable gland	 05864E00	8161/5-M50-35	138526	0.091
		8161/5-M25-17	138520	0.020
Stopping plug	 04840E00	8290/3-M25	143524	0.007
Reducer	 01183E00	M40-M25, polyamide, black	109380	0.018

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.

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