

Plug and Socket Devices SolConeX, 63 A Series 8579



- > 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
- > As standard with auxiliary contact for control and signalling purposes
- > IP66 in any application position
- > CES-compatible



E3

14507E00

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.

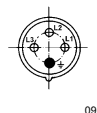
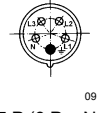
	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		x	x		x	x

WebCode 8579A

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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*						
	 06555E00 5 P (3 P + N + PE)	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
		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

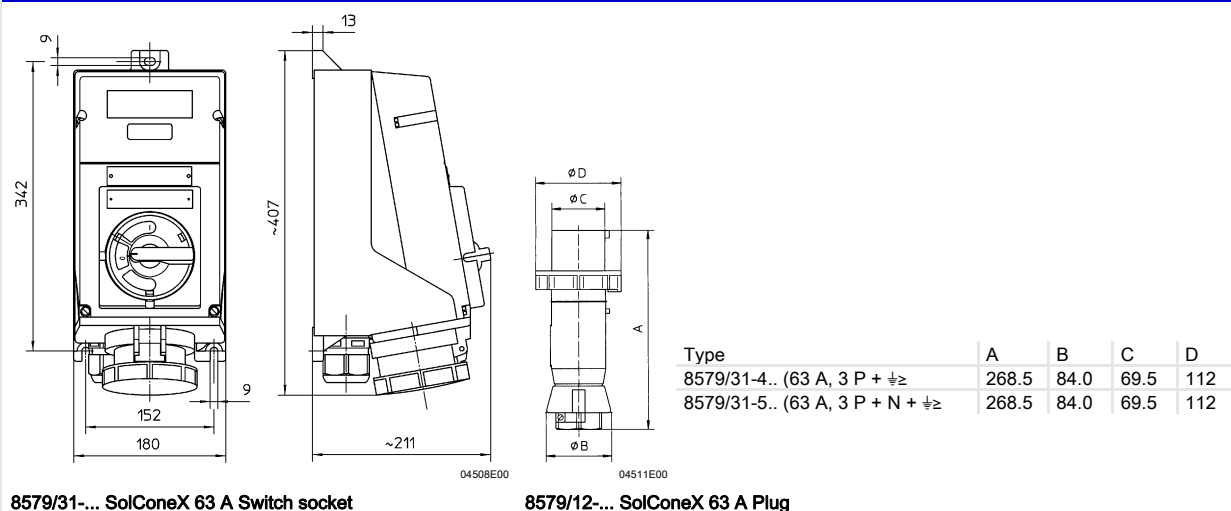
Note

- 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 m²

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



8579/31-... SolConeX 63 A Switch socket

8579/12-... SolConeX 63 A Plug

Explosion Protection

Device version

	SolConeX 63 A Switch socket8579/31	SolConeX 63 A Plug8579/12
Global (IECEx) Gas and dust	IECEx PTB 06.0020 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 tD A21 IP66 T60 °C (Ta = - 30 ... + 40 °C) Ex tD A21 IP66 T75 °C (Ta = - 30 ... + 55 °C)	IECEx PTB 06.0020 Ex d e IIC Ex tD A21 IP66
Europe (ATEX) Gas and dust	PTB 01 ATEX 1150 Ⓔ 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 D Ex tD A21 IP66 T60 °C (Ta = - 30 ... + 40 °C) Ⓔ II 2 D Ex tD A21 IP66 T75 °C (Ta = - 30 ... + 55 °C)	PTB 01 ATEX 1150 Ⓔ II 2 G Ex d e IIC Ⓔ II 2 D Ex tD A21 IP66 T90 °C (Ta = - 30 ... + 50 °C) Ⓔ II 2 D Ex tD A21 IP66 T105 °C (Ta = - 30 ... + 55 °C)
Certifications and certificates Certificates	IECEx, ATEX, China (China-Ex), India (PESO), Canada (CSA), Russia (GOST R), Ukraine (TR), Belarus (operating authorisation)	



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Technical Data

Device version	SolConeX 63 A Switch socket8579/31	SolConeX 63 A Plug8579/12
Electrical data		
Main contacts		
Rated operational voltage	max. 690 V	max. 690 V
Rated insulation voltage	max. 690 V	max. 690 V
Rated operational current	63 A ≥ 100 Hz, 50 A	63 A ≥ 100 Hz, 50 A
Switching capacity	according to IEC/EN 60947-3: 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 1) 1 contact 2) 2 contacts connected in series 3) 3 contacts connected in series	--
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		
Ambient temperature	see Explosion Protection data - 45 °C on request (internal lubrication with silicone grease)	see Explosion protection data 8579/11 or 8579/31
Mechanical data		
Service life		
electrical	20,000 operating cycles	--
Mechanical	100,000 operating cycles	--
Material		
Enclosure material	glass-fibre reinforced 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
Mounting / Installation		
Main contacts		
Connection cross-section	16 ... 50 mm ² , finely stranded / stranded	2.5 ... 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 synchronising 8080/1-3: 2 NC contacts ²⁾ 8080/1-4: 2 NO contacts ²⁾ ¹⁾ only in the left installation slot, synchronising in the right installation slot ²⁾ synchronising 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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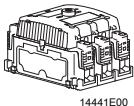
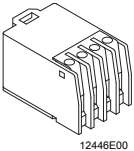
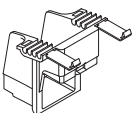
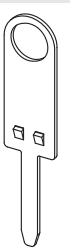


Arrangement of contacts and terminal markings

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



Accessories and Spare Parts

Designation	Figure	Description	Art. no.	Weight kg
Switch insert	 14441E00	8544/1-31L	167239	2.200
Auxiliary contact, Series 8080/1	 12446E00	1 NC contact + 1 NO contact (8080/1-1) ¹⁾	168351	0.026
		2 NC contacts (8080/1-3) ²⁾	168356	0.026
		2 NO contacts (8080/1-4) ²⁾	168353	0.026
		The switching function of the auxiliary contact depends on the installation slot used. ¹⁾ left: delayed (ON), advanced (OFF); ²⁾ left and right: synchronising		
Protective cap	 05365E00	protects the plug pins from pollution	153261	0.100
Plastic cable gland	 02055E00	8161/5-M50-35	138526	0.091
		8161/5-M25-17	138520	0.020
Stopping plug	 04840E00	8290/3-M25 x 1,5	143524	0.007
Reducer	 01183E00	M40-M25, polyamide, black	109380	0.018
Ex i cover	 12451E00	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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