

TECHNICAL DATA DC-SWITCH

FRONIUS GALVO 1.5-1 to 3.1-1

LS32 E 7796 (43,0002,0475) and LS32 E 7797 (43,0002,0479)

Data according to IEC 60947-3, VDE 0660, GB14048.3 (CCC)

Utilization category DC-PV2

Main contacts	Type	LS32		
Rated thermal current I _{th}	A	32	over-current	
Rated insulation voltage U _i ¹⁾	V	1000	breaking	
Rated insulation voltage U _i ²⁾	V	1500	capability ⁴⁾	
Rated operational current I_e³⁾				
	300V	A	27	108
	400V	A	20	80
1 pole	500V	A	14	56
(valid for DC+1, DC+2 and	600V	A	8	32
DC- each)	700V	A	3	12
	800V	A	3	12
	900V	A	2	8
	1000V	A	2	8
	500V	A	32	128
2 poles in series	600V	A	27	108
(valid for overall system)	700V	A	22	88
	800V	A	17	68
	900V	A	12	48
	1000V	A	6	24

1) Suitable at overvoltage category I to III, pollution degree 3 (standard-industry): U_{imp} = 8kV.

2) Suitable at overvoltage category I to III, pollution degree 2 (min. IP55): U_{imp} = 8kV.

3) Suitable for use in photovoltaic systems

4) as per IEC 60947-3 Table D.5 (5 operating cycles)



SHIFTING THE LIMITS

TEMPERATURE DERATING

Due to this DC Switch being integral to the inverter, the inverter's own output power temperature derating factor needs to be considered (see inverter Datasheet for details).

The DC Switch has **no current capability derating** factor **up to an ambient temperature of +65°C**.

ALTITUDE DERATING

0 to 2.000m:	1x I _e
2.001 to 2.500m:	0,975 x I _e
2.501 to 3.000m:	0,950 x I _e
3.001 to 3.500m:	0,925 x I _e
3.501 to 4.000m:	0,900 x I _e
4.001 to 4.500m:	0,875 x I _e
4.501 to 5.000m:	0,850 x I _e