

## TECHNICAL DATA DC-SWITCH

### FRONIUS SYMO 10.0-3-M to 12.5-3-M

#### LS32 E 7857 (43,0002,0489)

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

Utilization category DC-PV2

Main contacts		Type	LS32	
Rated thermal current I <sub>th</sub>		A	32	over-current breaking capability <sup>4)</sup>
Rated insulation voltage U <sub>i</sub> <sup>1)</sup>		V	1000	
Rated insulation voltage U <sub>i</sub> <sup>2)</sup>		V	1500	
<b>Rated operational current I<sub>e</sub><sup>3)</sup></b>				
	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 MPPT1 and	700V	A	22	88
MPPT2 individually)	800V	A	17	68
	900V	A	12	48
	1000V	A	6	24
	500V	A	50	200
2 poles in series	600V	A	35	140
+ 2 poles parallel	700V	A	22	88
(valid for MPPT1 and	800V	A	16	64
MPPT2 in parallel)	900V	A	10	40
	1000V	A	6	24

1) Suitable at overvoltage category I to III, pollution degree 3 (standard-industry): U<sub>imp</sub> = 8kV.

2) Suitable at overvoltage category I to III, pollution degree 2 (min. IP55): U<sub>imp</sub> = 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 <sub>e</sub>
2.001 to 2.500m:	0,975 x I <sub>e</sub>
2.501 to 3.000m:	0,950 x I <sub>e</sub>
3.001 to 3.500m:	0,925 x I <sub>e</sub>
3.501 to 4.000m:	0,900 x I <sub>e</sub>
4.001 to 4.500m:	0,875 x I <sub>e</sub>
4.501 to 5.000m:	0,850 x I <sub>e</sub>