SHIFTING THE LIMITS

TECHNICAL DATA DC-SWITCH

FRONIUS ECO 25.0-3-S to 27.0-3-S

LS55 E 7898 (43,0002,0499)

Data according to IEC 60947-3, VDE 0660, GB14048.3 (CCC)
Utilization category DC-PV2

Main contacts			**Type**	**LS55**	
Rated thermal current Ith			A	55	over-current breaking capability [4]
Rated insulation voltage Ui [1]			V	1500	
Rated insulation voltage Ui [2]			V	-	
Rated operational current Ie [3]		300V	A	55	220
		400V	A	40	160
	1 pole	500V	A	25	100
	(valid for DC+ and	600V	A	13	52
	DC- each)	700V	A	10	40
		800V	A	8	32
		900V	A	6	24
		1000V	A	4	16
		500V	A	85	340
	2 poles in series	600V	A	75	300
	+ 2 poles parallel	700V	A	60	240
	(valid for overall system)	800V	A	49	196
		900V	A	35	140
		1000V	A	25	100

1) Suitable at overvoltage category I to III, pollution degree 3 (standard-industry): Uimp = 8kV.
2) Suitable at overvoltage category I to III, pollution degree 2 (min. IP55): Uimp = 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 Ie
2.001 to 2.500m: 0,975 x Ie
2.501 to 3.000m: 0,950 x Ie
3.001 to 3.500m: 0,925 x Ie
3.501 to 4.000m: 0,900 x Ie
4.001 to 4.500m: 0,875 x Ie
4.501 to 5.000m: 0,850 x Ie