

## Fireman's switch, 30A, MC4, UA 230V50Hz

Part no.	SOL30-SAFETY/2MC4-U(230V50HZ)
Catalog No.	144122
Alternate Catalog No.	SOL30-SAFETY-2MC4-UF
EL-Nummer (Norway)	4300325

## Delivery program

Product range			Switchgear for photovoltaic systems
Subrange			Fireman's switch
Product range			Fireman's Switch
Application field			Residential buildings Utility buildings
Part no.			SOL-Safety
Rated operational voltage	U <sub>e</sub>	V	1000
Rated operational current at DC-21A	I <sub>e</sub>	A	30
Rated operational current at DC-PV1	I <sub>e</sub>	A	30
Rated operational current at DC-PV2	I <sub>e</sub>	A	10
Inputs number of strings			2
Inputs connection type			MC4
Outputs number of strings			1
Outputs connection type			MC4

## Technical data

## General

Standards			IEC/EN 60947-3
Description			Application: DC isolation in photovoltaic systems between PV generator and power inverter for disconnecting power Remote tripping with integrated undervoltage release 230 V, 50 Hz Signalling of switch state via auxiliary contact 1 N/O and 1 NC Prewired ready for connection Lockable with padlock in OFF position Spring switch function

## Electrical

Number of poles			2 pole
Rated operational voltage	U <sub>e</sub>	V	1000
Rated operational current at DC-21A	I <sub>e</sub>	A	30
Rated operational current at DC-PV1	I <sub>e</sub>	A	30
Rated operational current at DC-PV2	I <sub>e</sub>	A	10
Rated short-time withstand current (t=1s)	I <sub>cw</sub>	kA	0.7
up to 440 V 50/60 Hz	I <sub>cm</sub>	kA	0.3
Utilization category			DC-21 A DC-PV1 DC-PV2
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U <sub>imp</sub>	kV	8
Electrical		Operation	4500
Internal resistance		mΩ	7

## Mechanical

Weight		kg	0.47
Degree of Protection			IP65
Ambient temperature			
Open		°C	-25 - +60
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Lifespan, mechanical	Operations		100000
Max. operating frequency		Ops/h	120

## Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60

## Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecI@ss10.0.1-27-37-14-03 [AKF060013])			
Version as main switch			No
Version as maintenance-/service switch			Yes
Version as safety switch			No
Version as emergency stop installation			No
Version as reversing switch			No
Number of switches			1
Max. rated operation voltage Ue AC		V	1000
Rated operating voltage		V	1000 - 1000
Rated permanent current Iu		A	32
Rated permanent current at AC-23, 400 V		A	0
Rated permanent current at AC-21, 400 V		A	0
Rated operation power at AC-3, 400 V		kW	0
Rated short-time withstand current Icw		kA	0.36
Rated operation power at AC-23, 400 V		kW	0
Switching power at 400 V		kW	30
Conditioned rated short-circuit current Iq		kA	0
Number of poles			2
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as change-over contact			1
Motor drive optional			No
Motor drive integrated			No
Voltage release optional			Yes
Device construction			Complete device in housing
Suitable for floor mounting			Yes
Suitable for front mounting 4-hole			No
Suitable for front mounting centre			No
Suitable for distribution board installation			No
Suitable for intermediate mounting			No
Colour control element			Black
Type of control element			Toggle
Interlockable			No
Type of electrical connection of main circuit			Other
Degree of protection (IP), front side			IP65
Degree of protection (NEMA)			Other