

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



Powering Business Worldwide™

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			Operational 500
Internal resistance		mΩ	7

## Mechanical

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

## Design verification as per IEC/EN 61439

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

## Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@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