

Switch disconnecter, DC, 600V, 100 A



Part no. PV-DIS-06-100/2
 Catalog No. 185502

Delivery program

Product range			Photovoltaik switch-disconnector
Application field			Residential buildings Utility buildings Open areas
Description			String protection of the PV generator
Rated operational voltage	U_e	V	600
Number of poles			2 pole

Technical data

Rated operational voltage	U_e	V	600
Rated impulse withstand voltage	U_{imp}	kV	4
Rated insulation voltage	U_i	V	630

Utilization category (acc. to EN 60947-3)

Rated operational current I_e 16-100 A			DC-PV2
Mechanical operations			acc. to IEC 60947-3 Category of utilization DC-PV2 or DC-PV1
Electrical operations			acc. to IEC 60947-3 Category of utilization DC-PV2 or DC-PV1
Rated frequency / Operating frequency			DC only
Approbation			VDE
Climatic proofing			IEC 60947-2
Shock resistance			IEC 60947-2
Dimensions			according to drawing
Dimensions of terminals		mm ²	2,5 - 50
Cable material			Copper, Cu
Degree of Protection			IP20, IP40 (when fitted)
Mounting position			As required
Ambient temperature		°C	-20°C to + 40°C, +40°C to 75°C derating
Operating ambient temperature min.		°C	-20
Operating ambient temperature max.		°C	+ 40
Min. ambient temperature, storage		°C	- 40
Ambient temperature, storage max.		°C	+ 75
			Maximum operating temperature is 75 °C in accordance with the de-rating table
Max. DC contact rating			100%
Safe electrical isolation			yes

Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-20
Operating ambient temperature max.		°C	40
			Maximum operating temperature is 75 °C in accordance with the de-rating table

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 (ec@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	0
Rated operating voltage	V	600 - 1000
Rated permanent current Iu	A	0
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	1200
Rated operation power at AC-23, 400 V	kW	0
Switching power at 400 V	kW	0
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		0
Motor drive optional		No
Motor drive integrated		No
Voltage release optional		Yes
Device construction		Built-in device fixed built-in technique
Suitable for floor mounting		No
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		Yes
Suitable for intermediate mounting		No
Colour control element		Grey
Type of control element		Rocker lever
Interlockable		No
Type of electrical connection of main circuit		Frame clamp
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other