

DC SURGE PROTECTION DEVICE

WITH COMMUNICATION MODE

DQSA-PV-COM-C40



DESCRIPTION / APPLICATION

Plug-in format

DQSA-PV-COM-C40 series of DC Surge Protective Device (SPD) for use in Photovoltaic applications. Surge protective devices provide protection from lightning current and over-voltage surges in system from 48VDC to 1000Vdc.

Providing power with photovoltaic solar panels is interesting in the context of renewable energy sources, as regards economical photovoltaic systems connected to the public electricity network. Because of their exposition, frequently in isolated sites and of the extended surface of photovoltaic systems (PV), lightning strikes are a major components in the risk to be assumed, both for the direct effect of lightning on the structures, and of the surge over-voltages on the installation. Cells are generally associated with inverters. We have developed a specific Din Rail product to protect DC end of cells and inverters against surge in power plant or residential application.

With the MOV(Metal Oxide Varistor), the over-voltage will be limited at the value of the voltage protection level of the DQSA-PV-COM-C40 surge protector. Our surge protector, as recommended in standards and guides, insure all protections (between +and-, + and Ground,-and Ground).On each surge arrest-er, as option, an available auxiliary contact will inform the end life status to ensure a maximum efficiency.

Features

Easy installation or retrofit

Din-rail mountable

With communication function

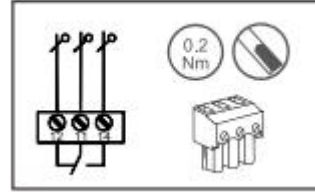
Fail-safe /self-protected design

Remote indicator (optional) with 3 pin NO/NC contact

IP20 finger-safe design

Visual indicator

Small foot print



PART NUMBER EXAMPLE

BASE NUMBER	Type	COMMUNICATION FUCTION	Frame Size	Voltage	Poles
DQSA	PV	YES	C40	800V	2P
EXAMPLE	DQSA-PV-COM-C40-800V-2P (40KA 2POLE 800V SURGE ARRESTOR WITH COMMUNICATION)				

MAIN TECHNICAL DATA

Network configuration	Photovoltaic (PV)	
Poles	2P	3P
Maximum continuous voltage (uc)	48/65/85/275/500/600/ 800 / 1000Vdc	275V/500/ 600/800/ 1000/1200/ 1500Vdc
Type of SPD	Type 2, Class II	
Nominal discharge current (8/20μs)(In)	20kA	
Maximum discharge current (8/20μs)(Imax)	40kA	
Voltage protection level (Up)	≤ 0.3/0.5/0.6/0.8/1.8/ 2.5/3.0/ 3.2/4.2kV	≤ 1.8/ 2.5/3.0/3.2/3.6/ 4.2/4.5kV
Response time (tA)	<25ns	
Thermal Protection	YES	
Operating State/Fault Indication	Green (good)/ Red (replace)	
Degree of protection	IP20	
Insulating material / flammability class	PA66, UL94 V-0	
Protective Elements	High energy MOV	
Temperature range	-40°C~+80°C	
Altitude	12123ft(4000m)	

Remote contacts(RC)	Optional
Format	Pluggable
For mounting on	Din rail 35mm
Standard	IEC61643-31

DIMENSIONS AND MOUNTING

