

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20160309 - E346418  
**Report Reference** E346418 - 20130829  
**Issue Date** 2016-MARCH-09

**Issued to:** SOCOMEC S A  
1 RTE DE WESTHOUSE  
BOITE POSTALE 10  
67235 BENFELD CEDEX, FRANCE FRANCE

**This is to certify that representative samples of** SWITCHES, OPEN TYPE FOR USE IN PHOTOVOLTAIC SYSTEMS

See Addendum Page

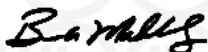
Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 98, "Enclosed and Dead-Front Switches Outline of Investigation for Open Type Switches," UL Subject 98A, "Outline of Investigation for Open-Type Switches," and UL Subject 98B, "Outline of Investigation for Enclosed and Dead-Front Switches for Use in Photovoltaic Systems."

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

**Product Covered:**


USL - Open type switches, manual for use in photovoltaic systems, Cat. Nos. 27PV1026, 27DC1026, 27PV2027, 27DC2027, 27PV2032, 27DC2032, 27PV2039, 27DC2039, 27PV3026, 27DC3026, 27PV3032, 27DC3032, 27PV3039, 27DC3039, 27PV4026, 27DC4026, 27PV4032, 27DC4032, 27PV4039, 27DC4039, 27PV6026, 27DC6026, 27PV6032, 27DC6032, 27PV6039, 27DC6039, 27PV8026, 27DC8026, 27PV8032, 27DC8032, 27PV8039, 27DC8039, 27PV2028, 27DC2028, 27PV2033, 27DC2033, 27PV2042, 27DC2042, 27PV3027, 27DC3027, 27PV3033, 27DC3033, 27PV3042, 27DC3042, 27PV4027, 27DC4027, 27PV4033, 27DC4033, 27PV4042, 27DC4042, 27PV2050, 27PV2065, 27PV5050, 27PV5065.

USL - Open type switches, Motorized for use in photovoltaic systems, Cat. Nos. 27DC2M28, 27DC2M33, 27DC2M42, 27PV2M28, 27PV2M33, 27PV2M42, 27DC3M27, 27DC3M33, 27DC3M42, 27PV3M27, 27PV3M33, 27PV3M42, 27DC4M27, 27DC4M33, 27DC4M42, 27PV4M27, 27PV4M33, 27PV4M42.

**Ratings:**

OPEN TYPE SWITCHES, MANUAL FOR USE IN PHOTOVOLTAIC SYSTEMS

Model	Current of General use, A	Voltage, DC	Number of Switch Poles	Number of Poles Used in Series	Number of Circuits	Short Circuit Rating, kA	Comments
27PV1026 27DC1026	215	600	1	1	1	10	
27PV2027 27DC2027 27PV2028 27DC2028	215 275	600 1000	2	1	2	10	
				2	1	10	
27PV2032 27DC2032 27PV2033 27DC2033	215 325	600 1000	2	1	2	10	
				2	1	10	
27PV2039 27DC2039 27PV2042 27DC2042	215 400	600 1000	2	1	2	10	
				2	1	10	



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## PEN TYPE SWITCHES, MANUAL FOR USE IN PHOTOVOLTAIC SYSTEMS (Cont.)

Model	Current of General use, A	Voltage, DC	Number of Switch Poles	Number of Poles Used in Series	Number of Circuits	Short Circuit Rating, kA	Comments
27PV3026	215	600	3	1	3	10	
27DC3026	275	1000		3	1	10	Optional characteristics
27DC3027		1500		3	1	10	
27PV3027	275	1500		1	3	10	
27PV3032	215	600	3	3	1	10	
27DC3032	325	1000		3	1	10	Optional characteristics
27PV3033		1500		3	1	10	
27DC3033	325	1500		1	3	10	
27PV3039	215	600	4	3	1	10	
27DC3039	400	1000		3	1	10	Optional characteristics
27PV3042		1500		3	1	10	
27DC3042	400	1500		1	4	10	
27PV4026	215	600	4	2	2	10	Optional characteristics
27DC4026	275	1000		3 or 4	1	10	For ungrounded systems, uses 4 poles in series
27PV4027		1500		1	4	10	
27DC4027	275	1500		2	2	10	Optional characteristics
27DC4032	215	600	3 or 4	3 or 4	1	10	For ungrounded systems, uses 4 poles in series
27PV4032	325	1000		1	4	10	
27PV4033		1500		2	2	10	Optional characteristics
27DC4033	325	1500		1	4	10	
27PV4039	215	600	3 or 4	2	2	10	Optional characteristics
27DC4039	400	1000		3 or 4	1	10	For ungrounded systems, uses 4 poles in series
27PV4042		1500		1	4	10	
27DC4042	400	1500		2	2	10	Optional characteristics

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## OPEN TYPE SWITCHES, MANUAL FOR USE IN PHOTOVOLTAIC SYSTEMS

Model	Current of General use, A	Voltage, DC	Number of Switch Poles	Number of Poles Used in Series	Number of Circuits	Short Circuit Rating, kA	
27PV6026	215	600	6	1	6	10	
27DC6026	275	1000		3	2	10	Optional characteristics
	275	1500		3	2	10	
27PV6032	215	600	6	1	6	10	
27DC6032	325	1000		3	2	10	Optional characteristics
	325	1500		3	2	10	
27PV6039	215	600	6	1	6	10	
27DC6039	350	1000		3	2	10	Optional characteristics
	350	1500		3	2	10	
27PV8026	215	600	8	1	8	10	
27DC8026	275	1000		2	4	10	Optional characteristics
	275	1500		3 or 4	2	10	For ungrounded systems, uses 4 poles in series
27PV8032	215	600	8	1	8	10	
27DC8032	325	1000		2	4	10	Optional characteristics
	325	1500		3 or 4	2	10	For ungrounded systems, uses 4 poles in series

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OPEN TYPE SWITCHES, MANUAL FOR USE IN PHOTOVOLTAIC SYSTEMS (Cont.)

Model	Current of General use, A	Voltage, DC	Number of Switch Poles	Number of Poles Used in Series	Number of Circuits	Short Circuit Rating, kA	
27PV8039 27DC8039	215	600		1	8	10	Optional characteristics For ungrounded systems, uses 4 poles in series
	350	1000		2	4	10	
	350	1500		3 or 4	2	10	

See Illustration 2 for pole configurations for single stack constructions. See Illustration 3 for pole configurations for double stack constructions.

Model	Current of General use, A	Voltage, DC	Number of Switch Poles	Number of Poles Used in Series	Number of Circuits	Short Circuit Rating, kA
27PV2050	325	1000	4	2	2	10
27PV2065	400			2	2	10
27PV5050	325	1000	8	2	4	10
27PV5065	350			2	4	10

Model	Current of General use, A	Voltage, DC	Number of Switch Poles	*Wiring configuration	Number of Circuits	Short Circuit Rating, kA
27PV2050	500	1000	4	2 poles in parallel in series with 2 poles in parallel	1	10
27PV2065	650				1	10
27PV5050	500	1000	8	2 poles in parallel in series with 2 poles in parallel	2	10
27PV5065	650				2	10

See Illustration 1 for connection diagrams for 500A and 650A configuration.

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## OPEN TYPE SWITCHES, MOTORIZED FOR USE IN PHOTOVOLTAIC SYSTEMS

Model	Current of General use, A	Voltage, DC	Number of Switch Poles	Number of Poles Used in Series	Number of Circuits	Short Circuit Rating, kA
27PV2M28	215	600	2	1	2	10
27DC2M28	275	1000		2	1	10
27PV2M33	215	600		1	2	10
27DC2M33	325	1000		2	1	10
27PV2M42	215	600		1	2	10
27DC2M42	400	1000		2	1	10
27DC3M27	215	600	3	1	3	10
27PV3M27	275	1000		3	1	10
27PV3M33	215	600		1	3	10
27DC3M33	325	1000		3	1	10
27PV3M42	215	600		1	3	10
27DC3M42	400	1000		3	1	10
27PV4M27	215	600	4	1	4	10
27DC4M27	275	1000		2	2	10
27PV4M33	215	600		1	4	10
27DC4M33	325	1000		2	2	10
27PV4M42	215	600		1	4	10
27DC4M42	400	1000		2	2	10

Ambient range -20 to +50 °C

Short circuit values when protected with any fuses (50ms test without protection)

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