APPENDIX A	IEC / EN / 60529 2.1	Ed. 2001	Page 1 of 6
Project number: S	I1407596	Ratings: IP65	
Manufacturer: CP	S Products, Inc	_	
Model: SPD60		_ Serial/Sample# Prototy	ype 1 and 2
By: Justina Sanche	ez/		

IEC / EN / 60529 2.1 Ed 2001

- General Requirements

(Safety requirements for electrical Equipment for measurement, control and laboratory use)



TEST DATA SHEETS

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Project number: SI1	407596	Ratings: IP65	
Manufacturer: CPS	Products, Inc		
Model: SPD60		Serial/Sample#	
	Jasta Sarchy	_	
By: Justina Sanchez	1		

Test for protection against solid objects

Clause 13.0

	Appliances other than IPXO - test per IEC	IP
	60529	Numeral
13.1	IP1x per clause 13.2	N/A
	IP2x per clause 13.2	N/A
	IP3x per clause 13.2	N/A
	IP4x per clause 13.2	N/A
	IP5x per clause 13.4 + 13.5	N/A
	IP6x per clause 13.4 + 13.6	Р

Acceptance conditions

		Pass	Fails	N/A
13.3	Protection is satisfactory if the full	[]	[]	[X]
(IP1-4)	diameter of the probe specified does not pass through an opening			
13.5.2 (IP5)	No dust where it could lead to tracking	[]	[]	[X]
	No dust where it could interfere with correct operation	[]	[]	[X]
	No dust where it could impair safety	[]	[]	[X]
13.6.2 (IP6)	No dust in enclosure at all	[X]	[]	[]

Comments:	
Test Equipment ID#:_6627, 6628, 6642, 6579, SDPM000	004 Date: <u>2014-08-05</u>

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Project number: SI	1407596	Ratings: IP65	
Manufacturer: CPS	Products, Inc		
Model: SPD60		Serial/Sample#	
	Justa Sarchy		
By: Justina Sanche	7. /		

Test for protection against water

Clause 14.0

	Appliances other than IPXO - test per IEC	IP
	60529	Numeral
14.2	IPX1 per clause 14.2.1	N/A
	IPX2 per clause 14.2.2	N/A
	IPX3 per clause 14.2.3 a)	N/A
	IPX3 per clause 14.2.3 b)	N/A
	IPX4 per clause 14.2.4 a)	N/A
	IPX4 per clause 14.2.4 b)	N/A
	IPX5 per clause 14.2.5	Р
	IPX6 per clause 14.2.6	N/A
	IPX7 per clause 14.2.7	N/A

14.3 : Acceptance conditions

		Pass	Fails	N/A
	No water entered the enclosure	[X]	[]	[]
	If any water has entered the enclosure it must not			
1.	be sufficient to interfere with the correct operation of the equipment impair safety	[]	[]	[X]
2.	Impair safety	[]	[]	[X]
3.	Deposit on insulation parts where it could lead to tracking along the creepage distance.	[]	[]	[X]
4.	Reach live parts or windings not designed to operate when wet	[]	[]	[X]
5.	Accumulate near the cable end or enter the cable if any.	[]	[]	[X]

Comments:	
Test Equipment ID#: 6620, 6611, 6583	Date: 2014-08-05

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Project number: SI1407596	Ratings: IP65	
Manufacturer: CPS Products, Inc		
Model: SPD60	Serial/Sample#	
By: Justina Sanchez fath Sarchy /		

16.3	TABLE:	electric strengt	P			
test voltage	e applied be	tween:		test voltage (V)	breakdown	
L-N to enclosure			1480 (UL 1449 requirement)	No		
			Τε	est voltage V		
Insulation			Rated voltage a		Working voltage (U)	
		SELV	<=150V	>150V and <=250V	>250V	
Basic insular	tion	500	1000	1250	1.2U +950	
Supplementa insulation	ury		1500	1750	1.2U + 1450	
Reinforced in	nsulation		2500	3000	2.4U +2400	

voltage for 480 V multi-phase appliances is that specified for a **rated voltage** in the range >150 V and \$250 V.

Comments:

For multi-phase appliances, the line to neutral or line to earth voltage is used for ${\bf rated}$ ${\bf voltage}$. The test

Test Equipment ID#: _6286_______ Date: <u>2014-08-05</u>

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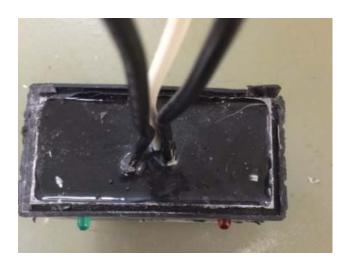
Page 5 of 6 Ratings: IP65 Project number: SI1407596_____ Manufacturer: CPS Products, Inc. Serial/Sample# Model: SPD60_____

By: Justina Sanchez fash Sarehj

Photos IP6X before



IP6X After – Unit is hermetically sealed therefore no dust could enter the enclosure.



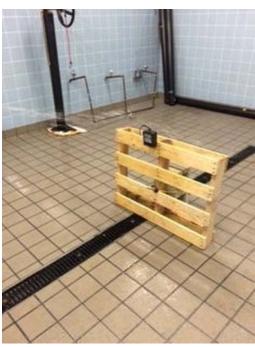
APPENDIX A IEC / EN / 60529 2.1^t Ed.

Project number: SI1407596 Ratings: IP65 Ratings: IP65

Model: SPD60______ Serial/Sample#_____

By: Justina Sanchez fasta Sarchy /

Photos IPX5 Before



IPX5 After – Unit was examined for wet sand which was not found.



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