

TEMPERATURE RISE AND SURFACE TEMPERATURE TEST

Sections 45 and 47

METHOD

A total of three samples of the mating pair are to be used for this test.

Samples of the mating pair, consisting of connector Cat. No. see below table and inlet, are to be used for this test. The mating pairs were connected in series using at least 150 mm (6 in) lengths of copper conductor, 6, 8, 9 AWG, flexible cord.

The rated current was passed through the power contacts and pilot contacts, respectively, continuously until thermal equilibrium was reached.

Cat. No.	Rated current, A	
	power contacts	pilot contacts
WOER-T1-C-AC80-01	80	2
WOER-T1-C-AC48-01	48	2
WOER-T1-C-AC40-01	40	2

Temperatures were measured by means of thermocouples secured to the locations indicated below and by using a suitable measuring instrument.

The following measurements were recorded.

Tested by: _____

Date 2022-05-10

TEMPERATURE RISE AND SURFACE TEMPERATURE TEST (CONT'D): Sections 45 and 47

RESULTS

1. Connector Manufacturer WOER, Model Number WOER-T1-C-AC80-01
(Inlet Manufacturer WOER, Model Number WOER-T1-I-AC80-01)

Sample 1, Sample No. A25

TC No.	Thermocouple Location	Measured Temperature (°C)			Maximum Measured Temp. Adjusted to marked End Use Ambient, °C	Maximum Allowable Temp., °C
	Measurement No.	1	2	3	40°C	
	Time of Measurement (Hour:Min)	17:30	17:35	17:40		
1	Connector Cable 6 inches from Body	50.2	50.3	50.2	--	90
2	Connector Shell near terminal	44.6	44.5	44.5	--	85
3	Connector L1 Contact	65.7	65.6	65.6	--	90
4	Connector L2 Contact	64.1	64.1	64.1	--	90
5	Connector Control Contact	52.9	52.9	52.9	--	90
6	Connector Micro Switch	44.6	44.5	44.6	--	85
7	Connector Handle Area	47.2	47.3	47.3	--	60
8	Bushing near cable	45.4	45.4	45.4	--	50
25	Ambient	43	43	43	--	

Sample 2, Sample No. A26

TC No.	Thermocouple Location	Measured Temperature (°C)			Maximum Measured Temp. Adjusted to marked End Use Ambient, °C	Maximum Allowable Temp., °C
	Measurement No.	1	2	3	40°C	
	Time of Measurement (Hour:Min)	17:30	17:35	17:40		
9	Connector Cable 6 inches from Body	49.5	49.5	49.5	--	90
10	Connector Shell near terminal	47.2	47.2	47.2	--	85
11	Connector L1 Contact	67.6	67.6	67.6	--	90
12	Connector L2 Contact	67.4	67.4	67.4	--	90
13	Connector Control Contact	56.2	56.2	56.2	--	90
14	Connector Micro Switch	50.3	50.4	50.3	--	85
15	Connector Handle Area	45.6	45.6	45.6	--	60
16	Bushing near cable	46.3	46.2	46.2	--	50
25	Ambient	43	43	43	--	

Tested by: _____

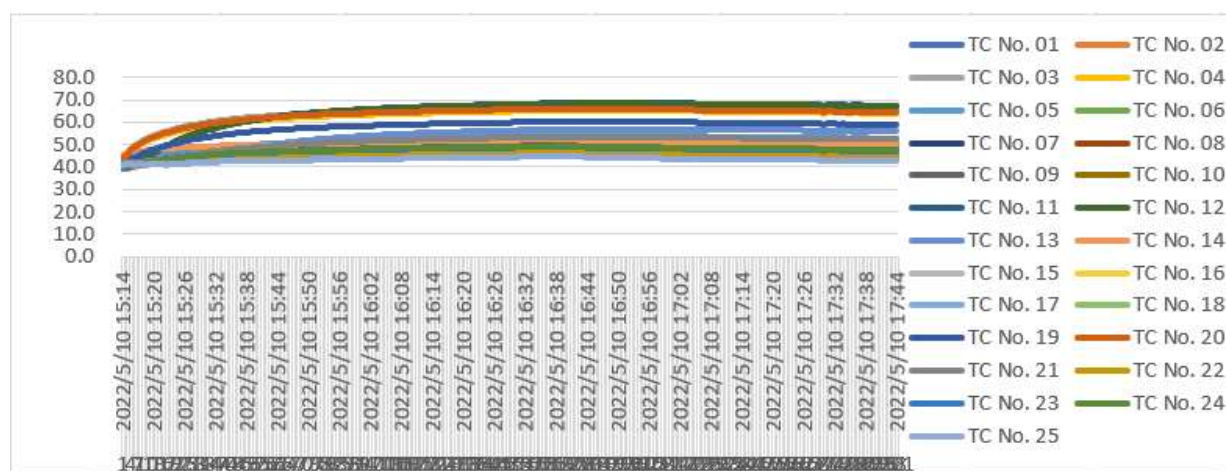
Date 2022-05-10

TEMPERATURE RISE AND SURFACE TEMPERATURE TEST (CONT'D): Sections 45 and 47

RESULTS

Sample 3, Sample No. A27

TC No.	Thermocouple Location	Measured Temperature (°C)			Maximum Measured Temp. Adjusted to marked End Use Ambient, °C	Maximum Allowable Temp., °C
	Measurement No.	1	2	3	40°C	
	Time of Measurement (Hour:Min)	17:30	17:35	17:40		
17	Connector Cable 6 inches from Body	47.0	47.0	47.0	--	90
18	Connector Shell near terminal	46.8	46.8	46.8	--	85
19	Connector L1 Contact	59.2	59.1	59.1	--	90
20	Connector L2 Contact	64.7	64.7	64.7	--	90
21	Connector Control Contact	52.4	52.4	52.4	--	90
22	Connector Micro Switch	44.7	44.7	44.7	--	85
23	Connector Handle Area	47.3	47.3	47.3	--	60
24	Bushing near cable	47.9	47.9	47.9	--	50
25	Ambient	43	43	43	--	



Lab Conditions:	24.9	°C	54.7	%RH	Date:	2022-05-10
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[X] In each case, the Maximum Measured Temperature Adjusted to marked End Use Ambient ~~did~~ [did not] exceed the maximum allowable temperature as noted in the tables above.

Tested by: _____

Date 2022-05-11

TEMPERATURE RISE AND SURFACE TEMPERATURE TEST (CONT'D): Sections 45 and 47

RESULTS

2. Connector Manufacturer WOER, Model Number WOER-T1-C-AC48-01
(Inlet Manufacturer UCHEN, E364477, Model Number DSS-EV-50S-V3)

Sample 1, Sample No. B15

TC No.	Thermocouple Location	Measured Temperature (°C)			Maximum Measured Temp. Adjusted to marked End Use Ambient, °C	Maximum Allowable Temp., °C
	Measurement No.	1	2	3	40°C	
	Time of Measurement (Hour:Min)	13:00	13:05	13:15		
1	Connector Cable 6 inches from Body	47.6	47.6	47.5	--	90
2	Connector Shell near terminal	44.5	44.4	44.5	--	85
3	Connector L1 Contact	61.9	61.9	62.0	--	90
4	Connector L2 Contact	63.0	63.0	63.0	--	90
5	Connector Control Contact	50.8	50.8	50.8	--	90
6	Connector Micro Switch	45.4	45.4	45.3	--	85
7	Connector Handle Area	42.8	42.8	42.8	--	60
8	Bushing near cable	44.1	44.1	44.0	--	50
25	Ambient	42.5	42.5	42.5	--	

Sample 2, Sample No. B16

TC No.	Thermocouple Location	Measured Temperature (°C)			Maximum Measured Temp. Adjusted to marked End Use Ambient, °C	Maximum Allowable Temp., °C
	Measurement No.	1	2	3	40°C	
	Time of Measurement (Hour:Min)	13:00	13:05	13:15		
9	Connector Cable 6 inches from Body	53.3	53.3	53.4	--	90
10	Connector Shell near terminal	44.7	44.7	44.8	--	85
11	Connector L1 Contact	65.0	65.0	65.0	--	90
12	Connector L2 Contact	65.3	65.3	65.3	--	90
13	Connector Control Contact	53.6	53.6	53.6	--	90
14	Connector Micro Switch	51.6	51.6	51.6	--	85
15	Connector Handle Area	46.2	46.2	46.3	--	60
16	Bushing near cable	47.7	47.7	47.8	--	50
25	Ambient	42.5	42.5	42.5	--	

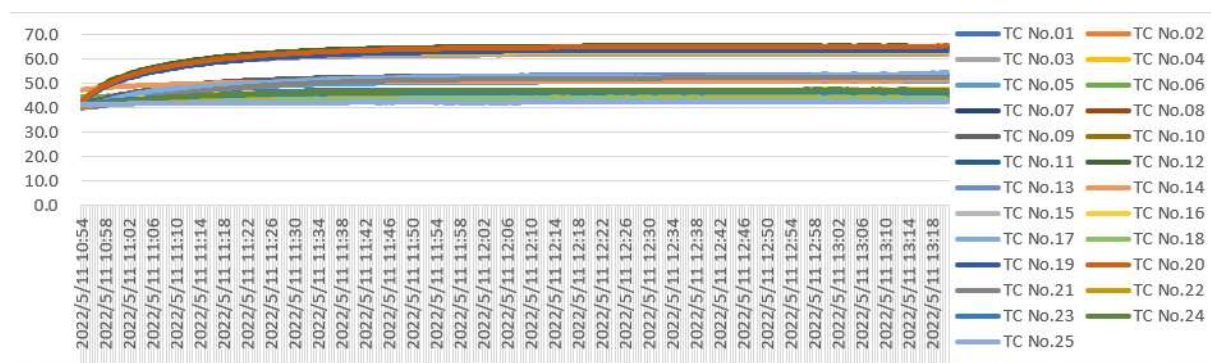
TEMPERATURE RISE AND SURFACE TEMPERATURE TEST (CONT'D):

Sections 45 and 47

RESULTS

Sample 3, Sample No. B17

TC No.	Thermocouple Location	Measured Temperature (°C)			Maximum Measured Temp. Adjusted to marked End Use Ambient, °C	Maximum Allowable Temp., °C
	Measurement No.	1	2	3	40°C	
	Time of Measurement (Hour:Min)	13:00	13:05	13:15		
17	Connector Cable 6 inches from Body	54.3	54.3	54.3	--	90
18	Connector Shell near terminal	43.9	43.9	43.9	--	85
19	Connector L1 Contact	63.7	63.7	63.7	--	90
20	Connector L2 Contact	65.4	65.4	65.4	--	90
21	Connector Control Contact	52.4	52.3	52.4	--	90
22	Connector Micro Switch	47.0	47.0	47.0	--	85
23	Connector Handle Area	46.2	46.1	46.1	--	60
24	Bushing near cable	47.3	47.2	47.3	--	50
25	Ambient	42.5	42.5	42.5	--	



Lab Conditions:	24.7 °C	55.1 %RH	Date:	2022-05-11
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[X] In each case, the Maximum Measured Temperature Adjusted to marked End Use Ambient ~~did~~ [did not] exceed the maximum allowable temperature as noted in the tables above.

Tested by: _____

Date 2022-05-11

TEMPERATURE RISE AND SURFACE TEMPERATURE TEST (CONT'D): Sections 45 and 47

RESULTS

3. Connector Manufacturer WOER, Model Number WOER-T1-C-AC40-01
(Inlet Manufacturer UCHEN, E364477, Model Number DSS-EV-40S-V3)

Sample 1, Sample No. C14

TC No.	Thermocouple Location	Measured Temperature (°C)			Maximum Measured Temp. Adjusted to marked End Use Ambient, °C	Maximum Allowable Temp., °C
	Measurement No.	1	2	3	40°C	
	Time of Measurement (Hour:Min)	17:10	17:15	17:20		
1	Connector Cable 6 inches from Body	46.7	46.6	46.8	--	90
2	Connector Shell near terminal	41.8	41.8	41.8	--	85
3	Connector L1 Contact	57.3	57.3	57.3	--	90
4	Connector L2 Contact	57.5	57.5	57.5	--	90
5	Connector Control Contact	48.5	48.6	48.5	--	90
6	Connector Micro Switch	41.2	41.2	41.2	--	85
7	Connector Handle Area	41.4	41.5	41.4	--	60
8	Bushing near cable	41.6	41.6	41.6	--	50
25	Ambient	40.9	40.9	40.9	--	

Sample 2, Sample No. C15

TC No.	Thermocouple Location	Measured Temperature (°C)			Maximum Measured Temp. Adjusted to marked End Use Ambient, °C	Maximum Allowable Temp., °C
	Measurement No.	1	2	3	40°C	
	Time of Measurement (Hour:Min)	17:10	17:15	17:20		
9	Connector Cable 6 inches from Body	45.8	45.8	45.8	--	90
10	Connector Shell near terminal	41.6	41.6	41.5	--	85
11	Connector L1 Contact	57.5	57.5	57.5	--	90
12	Connector L2 Contact	54.6	54.6	54.6	--	90
13	Connector Control Contact	48.1	48.1	48.1	--	90
14	Connector Micro Switch	46.7	46.7	46.7	--	85
15	Connector Handle Area	41.9	42.0	42.0	--	60
16	Bushing near cable	41.3	41.4	41.3	--	50
25	Ambient	40.9	40.9	40.9	--	

Tested by: _____

Date 2022-05-11

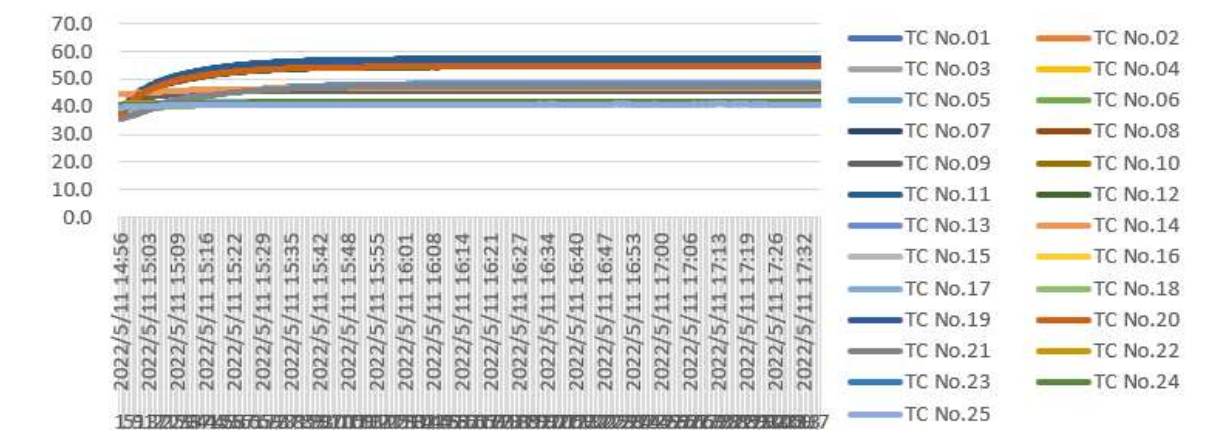
TEMPERATURE RISE AND SURFACE TEMPERATURE TEST (CONT'D): Sections 45 and 47

RESULTS

Sample 3, Sample No. C16

TC No.	Thermocouple Location	Measured Temperature (°C)			Maximum Measured Temp. Adjusted to marked End Use Ambient, °C	Maximum Allowable Temp., °C
	Measurement No.	1	2	3	40°C	
	Time of Measurement (Hour:Min)	17:10	17:15	17:20		
17	Connector Cable 6 inches from Body	41.9	41.9	41.9	--	90
18	Connector Shell near terminal	41.3	41.3	41.3	--	85
19	Connector L1 Contact	55.4	55.4	55.4	--	90
20	Connector L2 Contact	54.7	54.7	54.7	--	90
21	Connector Control Contact	47.6	47.6	47.6	--	90
22	Connector Micro Switch	41.5	41.5	41.5	--	85
23	Connector Handle Area	41.2	41.3	41.2	--	60
24	Bushing near cable	41.7	41.7	41.7	--	50
25	Ambient	40.9	40.9	40.9	--	

Lab Conditions:	24.7 °C	55.1 %RH	Date:	2022-05-11
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[X] In each case, the Maximum Measured Temperature Adjusted to marked End Use Ambient ~~did~~ [did not] exceed the maximum allowable temperature as noted in the tables above.