

## LOW VOLTAGE CIRCUIT BREAKER TEST REPORT

Customer: **S.C. Johnson Wax – Waxdale Facilities**  
 Address: **1525 Howe Street – Racine, WI 53177**  
 Owner: **Same as above**  
 Address:  
 Location: Building 65  
 Identification: 65 ATS/QA (Normal Breaker)

Date: 9/13/2020  
 Work Order: 14834  
 Temperature: 16 °C  
 Humidity: 89 %

### Nameplate Information

Manufacturer:	Square D	Type:	NW12N
Model:	MasterPact	Serial Number:	085054643301
Catalog Number:	W1CCR3A9CPBBXXCX	Voltage Rating:	600
Frame Ampere Rating:	1200	Interrupting kA Rating:	65 @ 480
Tripping Voltage:	N/A	Charging Voltage:	N/A
Closing Voltage:	N/A	Shunt Trip Voltage Rating:	N/A

### Trip Unit Information

Manufacturer:	Square D	Trip Module Ampere Rating:	Micrologic
Sensor (CT) Ampere Rating:	1200	Model:	5.0 A
Catalog Number:	N/A	Plug Ampere Rating:	1200

### Trip Unit Settings

Element	Ranges	As Found	As Left	As Tested
<b>Long Time Element Settings</b>				
Long Time Pick Up:	0.4 – 1	0.9	0.9	
Long Time Delay:	0.5 – 24	16	16	
<b>Short Time Element Settings</b>				
Short Time Pick Up:	1.5 – 10	10	10	
Short Time Delay:	0.1 – 0.4	0.3	0.3	
I <sup>2</sup> T:	On / Off	On	On	
<b>Ground Fault Element Settings</b>				
Ground Fault Pick Up:	N/A			
Ground Fault Delay:	N/A			
I <sup>2</sup> T:	N/A			
<b>Instantaneous Element Settings</b>				
Instantaneous Pick Up:	2 – 15	6	6	

## LOW VOLTAGE CIRCUIT BREAKER TEST REPORT (CONTINUED)

Identification: 65 ATS/QA (Normal Breaker)

Visual Inspection			
Circuit Breaker:	Cleaned	Arc Chutes:	Cleaned
Operating Mechanism:	Lubricated	Cubicle:	N/A
Electrical Connections:	Normal	Grounded:	N/A
Main Contacts:	Normal	Auxiliary Devices:	N/A
Arcing Contacts:	Normal	Panel Lights:	N/A
Contact Sequence:	Normal	Racking Mechanism	Normal
Auxiliary Contacts:	None	Shunt Trip Operation:	None

Operational Tests			
Manual Open:	OK	Manual Close:	OK
Electrically Open:	OK	Electrically Close:	OK
Manually Charge:	OK	Electrically Charge:	OK
Trip with Protective Devices:	N/A		

Insulation Resistance Tests		Pole #1	Pole #2	Pole #3
Insulation Resistance Pole to Pole in Ohms at 1 kV DC with Contacts Closed	As Found:			
	As Left:			
Insulation Resistance Across Pole in Ohms at 1 kV DC with Contacts Opened	As Found:			
	As Left:			
Contact Resistance Tests		Pole #1	Pole #2	Pole #3
Resistance in Micro-Ohms	As Found:			
	As Left:			

Trip Tests				
Long Time Elements		Pole #1	Pole #2	Pole #3
Long Time Delay in Seconds at % Pick Up Equal to Amps Manufacturers Curve to Seconds	As Found:			
	As Left:			
Short Time Elements				
Short Time Delay in Seconds at % Pick Up Equal to Amps Manufacturers Curve to Seconds	As Found:			
	As Left:			
Ground Fault Elements				
Ground Fault Delay in Seconds at % Pick Up Equal to Amps Manufacturers Curve to Seconds	As Found:			
	As Left:			
Instantaneous Elements				
Instantaneous Pick Up in Amperes Manufacturers Curve to Amperes	As Found:			
	As Left:			

Tested By: Scott Schraeder & Chuck Knudson

Test Equipment #: N/A

**Comments:** The circuit breaker is acceptable for operation. The next interval you will need a 24 V DC power supply and the masterpact test set to properly test the breaker in this ATS. [MN(Undervoltage) 24-30 V AC or DC D1-D2 / MX1(Shunt Release) 24-30 V AC or DC C2-C1 / XF(Close) 24-30 V AC or DC A1-A2 / MCH(Motor) 440-480 V AC B1-B2].



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