

Test Datasheet

Low Voltage Circuit Breaker
ID: MSA - DBSD1
 Test: Acceptance Testing
 Date: January 10, 2022

Project Information

Customer Name	Project Name	Project Number	Site Name
Helix Electric	Ava Arts District	2201000	Ava Apartments
Site Address	City	State	
2367 Sunset Avenue	Los Angeles	CA	

Nameplate Information

Substation:	Switchboard ID:	Feeder ID:		Voltage Rating	Frame Rating	Trip Rating
Unit Sub 3	MSA	DBSD1		480V	1200A	1000A
Manufacture	Breaker Type	Serial Number:	Cat. Number:	AIC @rated Voltage	Curve Type	trip Unit
Eaton	RDC4	MX3456789	MX3456789	65K	LSIG	Micrologic 6.0

Settings

As-Found Settings

Element:	Set Point:	Range:	In/Out:
Long-time pick-up	1.0	0.5-1.0	
Long-time Delay	6.0	0.5-8	
Short-time pick up	3.0	1.5-10	
Short-time Delay	1	1-3, In/out	out
Groun-Fault pick up	2.5	0.5-6	
Instantaneous pick up	5.0	1.5-12	
Ground-Fault Delay	2	1-3, In/out	In

As-Left Settings

Element:	Pick Up:	Range:	In/Out:
Long-time pick-up	1.0	0.5-1.0	
Long-time Delay	6.0	0.5-8	
Short-time pick up	3.0	1.5-10	
Short-time Delay	1	1-3, In/out	out
Ground-Fault pick up	2.5	0.5-6	
Instantaneous pick up	5.0	1.5-12	
Ground-Fault Delay	2	1-3, In/out	In

Visual Mechanical Inspection

Element:	Status:	Note:
Arch Chutes	Acceptable	
Contact Condition	Acceptable	
Contact Sequence	Acceptable	
Contact Condition	Acceptable	
Interlocks	Acceptable	
Operating Mechanism	Acceptable	

Element:	Status:	Note:
Trip Latch	Acceptable	
Primary Stabs	Acceptable	
Control Contacts	Acceptable	
Cell/Cradle Condition	Acceptable	
Electrical Operator-Trip	Acceptable	
Electrical Operator-Close	Acceptable	

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Test Data

Element:	Setting:	Test Current:		A-ph Pick up:	B-ph Pick up:	C-ph Pick up:	Min/Max Tolerance:
Long-time PU	1	400A	@ 100%	410A	410A	410A	360A-440A
Long-time Delay	6	1200A	@ 300%	1250A	1250A	1250A	1380A-1320A
Short-time PU	1	400A	@ 100%	410A	410A	410A	360A-440A
Short-time Delay	3	1800A	@ 150%	1250A	1250A	1250A	1380A-1320A
Instantaneous PU	6	2400A	@ 100%	2400A	2400A	2400A	2160A-2640A
Ground-Fault PU	1	400A	@ 100%	410A	410A	410A	360A-440A
Ground-Fault Delay	3	600A	@ 150%	540A	1250A	1250A	540A-660A

Contact Resistance

A-phase:	B-Phase:	C-Phase:	Evaluation
246	251	234	Pass

Evaluation: Values are within 50% of each other

Insulation Resistance

Test Voltage: 1000V

A _{phase-ground} :	B _{phase-ground} :	C _{phase-ground} :	A _{phase-B_{phase}} :	B _{phase-C_{phase}} :	C _{phase-A_{phase}} :	A _{line-load (open)} :	B _{line-load (open)} :	C _{line-load (open)} :
2.2G	2.2G	2.2G	2.2G	2.2G	2.2G	2.2G	2.2G	2.2G

Evaluation: Values are greater than 100 Mega-ohms

Test Equipment

Equipment	Cal. expiration Date:	Equipment	Cal. expiration Date:	Equipment	Cal. expiration Date:
PI-1600	jan/2/2022	PI-1600	jan/2/2022	PI-1600	jan/2/2022

Field Technicians

Lead Field Technician:	Field Technician(s):	Field Technician(s):
Miguel Barroso	John Brown	

Notes