UL 347C

Outline of Investigation for Medium Voltage Solid State Resistive Load

Controllers, Up to 15KV

Issue Number: 1

May 22, 2014

Summary of Topics

This First Issue of the Outline of Investigation for Medium Voltage Solid State Resistive Load Controllers, Up to 15KV, UL 347C, covers requirements for equipment incorporating solid state switching elements intended for starting, stopping, regulating, controlling, or protecting heating and other resistive loads.

UL's Outlines of Investigation are copyrighted by UL. Neither a printed nor electronic copy of an Outline of Investigation should be altered in any way. All of UL's Outlines of Investigation and all copyrights, ownerships, and rights regarding those Outlines of Investigation shall remain the sole and exclusive property of UL.

COPYRIGHT © 2014 UNDERWRITERS LABORATORIES INC.

No Text on This Page

CONTENTS

INTRODU	CTI	101	1
---------	-----	-----	---

1 Scope	
2 Definitions	
3 Components	
4 Units of Measurement	
5 Undated References	
CONSTRUCTION	
6 General	
7 Enclosures	
8 Grounding and Bonding	
9 Protective Devices	
10 Isolating Means	
11 Interlocking	
12 Automatic Restarting	
13 Wiring and Connections	3
14 Insulating Materials	
15 Field Installed Accessories	3
16 Spacings	3
16.1 General	3
16.2 Circuits of 600 V or less to ground	
17 Current Carrying Parts	
PERFORMANCE	
18 General	
19 Temperature Test	
19.1 General	
19.2 Test conditions	
20 Overload Test	
21 Mechanical Tests	
22 Switching Capacity Test - Isolating Means	
23 Dielectric Voltage-Withstand Test	
24 Fault Interruption Test	
25 Dielectric Voltage-Withstand (Repeated) Test	
26 Short-time, Momentary and Peak Withstand Current Bus Tests	
27 Driven Rain Test	
28 Mechanical tests of Viewing Panes	
29 Enclosure Ground Integrity Test	
30 Shutter Integrity Test	
31 Rod Entry Test	
32 Operation Tests	
32.1 General	
32.2 Single phasing	
32.3 Inoperative blower motor	
32.4 Clogged filter	
32.5 Acceptance criteria	