

ACS150/ACS350 DRIVE TEMPERATURE FAULTS (FAULT 18) AT LOW TEMPS.

Description:

ACS150/ACS350 products have a fault in measuring drive temperature. If the drive is cold before start up, the fault 18 appears.

Why the ACS150 and ACS350 drives fault at lower temperatures:

Problem:

ACS150/ACS350 products have a fault in measuring temperature. If the drive temperature is too low before start up, fault 18 appears. The fault disappears when the drive gets warmer.

Software:

The problem appears in ACS350 drives with software releases 2.51B (released December 2006) or in older revisions. In the ACS150, drives with software releases 1.32A (released October 2006) or older revisions.

Cause:

Permitted environment temperature values have been defined too strict.

Author: Jim Kluck Application Engineering; Rick Akey Technical Support	Date: January 25, 2011
External (us.abb.com)	Document #: LVD-EOTN05U-EN
	Revision: A
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Documents or other reference material:

ACS350 and ACS150 thermistor fail (FL18) limits		
ACS350 sw versions $\leq 2.21f$ ACS150 sw versions $\leq 1.20a$		
low limit	200V 8 °C	400V -120 °C
high limit	165 °C	380 °C
ACS350 sw versions 2.30a - 2.51c ACS150 sw versions 1.30a - 1.32a		
low limit	200V - 5 °C	400V - 8.5 °C
high limit	165 °C	200 °C
ACS350 sw versions $\geq 2.51d$ ACS150 sw versions $\geq 1.33a$		
low limit	200V -11 °C	400V -13 °C
high limit	165 °C	200 °C

Corrective Actions:

Problem has been corrected in ACS350 software release 2.52B (released March 2007), and in ACS150 software release 1.33B (released May 2007). Software in the drives can be updated or install a small heater to raise the cabinet temperature.

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