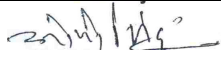





SPECIFICATION
FOR
Air Flow Relay
(AFR)

Document number : PS207003
Revision : 00
Date : 02/02/08
Classification : Controlled Copy
PROJECT : RAILWAY PROJECT FOR DEMU

	Name:	Designation	Signature:
Prepared By:	O.P.Singh	Sr Engineer	
Approved By:	Alok Gupta	DGM	



HISTORY OF REVISIONS

Issue	Description
0	Concept release, original version
1	
2	
3	
4	

1.1 Application

The function of the Air Flow Relay is to sense the Air Pressure during the time of running .It Contains a diaphragm for sensing low/ultra low range of air pressure , with contacts. The contact of Air flow relay(AFR) closes, when blower is working. In the event of failure of cooling fan Motor its contact opens i.e NC become NO which can be used in control logic & NO becomes NC which can be used in indication circuitry.

1.2 Range

0 to 1 m bar (Adjustable) / 0 to 10mm WC (Adjustable)

1.3 Overall Dimensions

Overall dimensions should not exceed 170 (H)X150(W)X 155(D)
(Dimensions in mm)

1.4 Ambient Temperature

0°C to 70°C

1.5 Climatic Conditions

Coastal Areas with highly corrosive , dusty , humid and salty atmosphere.

1.6 Max Air Humidity

100%

1.7 Execution

Suitable for Traction Duty as per IEC 60077

1.8 Microswitch type & switch actuation

Snap acting with 1NO+1NC (Changeover contact)



Bharat Heavy Electricals Limited, Bhopal Control Equipment Engineering Division

Switch actuation on rising / falling pressure.

1.9 Sensor

Neoprene Diaphragm / Equivalent

It is meant for low/ultra low range spans actuated by non metallic elastomer rubber diaphragm. A precision contoured synthetic elastomer diaphragm senses low differential pressures applied to either side of it & actuates a snap acting microswitch.

1.10 Contact Rating

S.P.D.T

0.5A , 110 VDC nominal with expected variation from 90 to 140 V DC (Resistive)

0.5A , 110 VDC nominal with expected variation from 90 to 140 V DC (Inductive)

5A , 230/110 VAC nominal (AC Rating)

1.11 Protection Category

Weather Proof to IS:2147 IP:66 with Neoprene / Nitrile Gasket

1.12 Make & Type

Switzer Chennai / GM-021-00-B3X5

Equivalents

BHEL Style Code for Item - BP9047566670

1.13 Guarantee

Items under offer shall be guaranteed for a period of 36 months from date of supply