Increased safety type stator winding RTD

Model: R810 series

Spec. sheet no. RD08-01

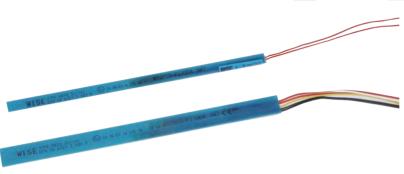












Service intended

The purpose of the stator winding RTD is to mainly detect and prevent overheating of motors. It is inserted in between a stator and a slot to measure a temperature. Stator winding RTD uses the phenomenon of changing electric resistance to measure a temperature. Since it has high stability and sensitivity, it is used to measure a temperature precisely. Also, it is made of a nonmetallic material, and therefore it has a structure of protecting element. It is designed to get flexibility and endure vibration and high pressure.

Standard features

Body material

High temperature epoxy glass

Temperature limit

Class F: 155 °C (311 °F) Class H: 180 °C (356 °F)

Lead wires

3 wire or 4 wire, copper, AWG #22 (With FEP or polyimide insulation)

Ambient temperature

Tamb = $-40 \sim 80 \,^{\circ}\text{C}$: T6 Tamb = $-40 \sim 95 \,^{\circ}\text{C}$: T5 $Tamb = -40 \sim 130 \, ^{\circ}C : T4$ Tamb = $-40 \sim 180 \,^{\circ}\text{C}$: T3

Working temperature

-50 ~ 180 °C

Standard

Explosive atmospheres. Equipment. General requirements

■ IEC 60079-0 / EN 60079-0 : 2009

Electrical apparatus for explosive gas atmospheres. Increased safety "e"

■ IEC 60079-7 / EN 60079-7 : 2007

Certificates

KCS Ex e IIC Gb ATEX II 2G Ex e IIC Gb IECEx Ex e IIC Gb



Main order

Ordering information

9. Lead wire color

EN code

KS code

Twisted type lead wire

Other

Other

Ε

Κ

Z

Т

Z

10. Option

1. Base model

- R811 RTD single element 3 wire
- R812 RTD double element 6 wire
- R813 RTD single element 3 wire with shield wire
- R814 RTD double element 6 wire with shield wire
- R815 RTD single element 4 wire
- R816 RTD double element 8 wire
- R817 RTD single element 4 wire with shield wire
- R818 RTD double element 8 wire with shield wire

2. Explosion proof type

- Α ATEX II 2G Ex e IIC Gb
- В IECEx e IIC Gb
- С KCS Ex e IIC Gb

3. Element

- Platinum (0.00385 TCR), Class "AA" EN 60751 1
- 2 Platinum (0.00385 TCR), Class "A" - EN 60751
- 3 Platinum (0.00385 TCR), Class "B" - EN 60751
- 0 Other

4. Temperature limited

- F Class F, 155 °C (311 °F)
- н Class H, 180 °C (356 °F)

5. Body thickness

Α1 0.079" (2.0 mm)

6. Body length (mm)

- 1 6 (W) x 155 (L) - Single element
- 2 11 (W) x 155 (L) - Double element
- Other Min. 6 (W) ~ Max. 14 (W) x Min. 155 (L)

7. Lead wire insulation

FEP F

8. Lead wire length (m)

- L1 1
- L2 2
- L3 3
- L4 4
- L5 5
- L6 6
- L7 7
- L8 8
- L9
- L0 Other (Min. 300 mm)

1 R811





3

4

5 **A1** 6

7

8 L3 9

10

Sample ordering code

