

Intrinsic safety type stator winding RTD

Model : R820 series

Spec. sheet no. RD08-02



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 ~ 80 °C : T6

Tamb = -40 ~ 130 °C : T4

Tamb = -40 ~ 95 °C : T5

Tamb = -40 ~ 180 °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. Intrinsic safety "i"

■ IEC 60079-11 / EN 60079-11 : 2007

Certificates

KCS Ex ia IIC T6...T3

ATEX II 1G Ex ia IIC T6...T3 Ga

IECEx Ex ia IIC T6...T3 Ga

Main order

Ordering information

1. Base model

- R821** RTD single element - 3 wire
- R822** RTD double element - 6 wire
- R823** RTD single element - 3 wire with shield wire
- R824** RTD double element - 6 wire with shield wire
- R825** RTD single element - 4 wire
- R826** RTD double element - 8 wire
- R827** RTD single element - 4 wire with shield wire
- R828** RTD double element - 8 wire with shield wire

2. Explosion proof type

- A** ATEX II 1G Ex ia IIC T6...T3 Ga
- B** IECEx Ex ia IIC T6...T3 Ga
- C** KCS Ex ia IIC T6...T3

3. Element

- 1** Platinum (0.00385 TCR), Class "AA" - EN 60751
- 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)
- H** Class H, 180 °C (356 °F)

5. Body thickness

- A1** 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
- 0** Other - Min. 6 (W) ~ Max. 14 (W) x Min. 155 (L)

7. Lead wire insulation

- F** FEP

8. Lead wire length (m)

- L1** 1
- L2** 2
- L3** 3
- L4** 4
- L5** 5
- L6** 6
- L7** 7
- L8** 8
- L9** 9
- L0** Other (Min. 300 mm)

9. Lead wire color

- E** EN code
- K** KS code
- Z** Other

10. Option

- T** Twisted type lead wire
- Z** Other

1	2	3	4	5	6	7	8	9	10
R821	A	2	H	A1	1	F	L3	K	T

Sample
ordering code



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