

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

Electrical apparatus for explosive gas atmospheres. Intrinsic safety "i"

■ IEC 60079-11 / EN 60079-11

Certificates

KCS Ex ia IIC T6...T3

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

IECEX Ex ia IIC T6...T3 Ga

ECAS Ex ia IIC T6...T3 Ga

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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
D ECAS Ex ia IIC T6...T3 Ga

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

Sample ordering code

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