

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)

Leadwires

3 wire or 4 wire, copper, AWG #22 (0.35 mm² , With PTFE 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. Increased safety "e"

■ IEC 60079-7 / EN 60079-7 : 2007

Explosion proof (ATEX)

■ II 2G Ex e IIC Gb

Explosion proof (IECEx)

Ex e IIC Gb

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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 - 4 wire with shield wire

2. Explosion proof type

- A** ATEX II 2G Ex e IIC Gb
- B** IECEx e IIC Gb

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)
- B1** 0.098" (2.5 mm)
- C1** 0.118" (3.0 mm)
- D1** 0.138" (3.5 mm)
- E1** 0.157" (4.0 mm)

6. Body length

- 1** 6 mm (W) x 155 mm (L) - Single element
- 2** 11 mm (W) x 155 mm (L) - Double element
- 0** Other - Min. 6 mm (W) - Max. 12 mm (W) x Min. 155 mm (L)

7. Lead wire insulation

- F** PTFE
- P** Polyimide

8. Lead wire length (m)

- L1** 1
- L2** 2
- L3** 3
- L4** 4
- L5** 5
- L0** Other (Min. 300 mm)

9. Lead wire color

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

10. Option

- T** Lead wire twist type
- Z** Other

1	2	3	4	5	6	7	8	9	10
R811	B	2	H	A1	1	F	L3	E	T

Sample
ordering code