

# 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 ~ 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

#### Certificates

KCS Ex e IIC Gb

ATEX II 2G Ex e IIC Gb

IECEX Ex e IIC Gb

**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**

- A** ATEX II 2G Ex e IIC Gb
- B** IECEX e IIC Gb
- C** KCS Ex 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)

**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
R811	B	2	H	A1	1	F	L3	E	T

Sample  
ordering code