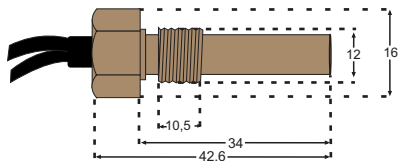


1. Descrição

Os sensores de temperatura KS3001 A, KS3001B e KS3001 C são do tipo PT-100, utilizados para medir a temperatura do motor.

2. Especificações

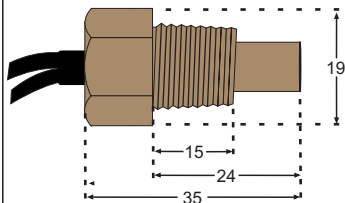
KS3001 A



Especificações

| | |
|----------------------------|---------|
| Tipo de rosca: | M12 |
| Formato: | Tubular |
| Passo da rosca: | 1,75 |
| Material Invólucro: | Latão |
| Conexão Elétrica: | Cabo |

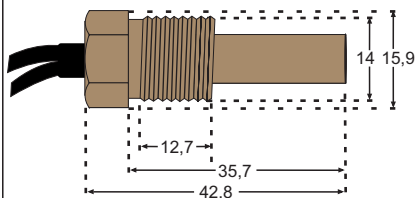
KS3001 B



Especificações

| | |
|----------------------------|----------|
| Tipo de rosca: | 3/8" NPT |
| Formato: | Cônica |
| Passo da rosca: | 18G |
| Material Invólucro: | Latão |
| Conexão Elétrica: | Cabo |

KS3001 C



Especificações

| | |
|----------------------------|---------|
| Tipo de rosca: | M14 |
| Formato: | Tubular |
| Passo da rosca: | 1,5 |
| Material Invólucro: | Latão |
| Conexão Elétrica: | Cabo |

3. Termoresistências PT-100

Temperatura em Graus Celsius (ITS-90)

| Resistência em ohms | | | | | | | | | | $R_0 = 100,00 \Omega \text{ à } 0^\circ\text{C}$ | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--------|
| ITS-90°C | -0 | -1 | -2 | -3 | -4 | -5 | -6 | -7 | -8 | -9 | -10 |
| RESISTÊNCIA EM OHMS | | | | | | | | | | | |
| -200 | 18.52 | | | | | | | | | | |
| -190 | 22.83 | 22.40 | 21.97 | 21.54 | 21.11 | 20.68 | 20.25 | 19.82 | 19.38 | 18.95 | 18.52 |
| -180 | 27.10 | 26.67 | 26.24 | 25.82 | 25.39 | 24.97 | 24.54 | 24.11 | 23.68 | 23.25 | 22.83 |
| -170 | 31.34 | 30.91 | 30.49 | 30.07 | 29.64 | 29.22 | 28.80 | 28.37 | 27.95 | 27.52 | 27.10 |
| -160 | 35.54 | 35.12 | 34.70 | 34.28 | 33.86 | 33.44 | 33.02 | 32.60 | 32.18 | 31.76 | 31.34 |
| -150 | 39.72 | 39.31 | 38.89 | 38.47 | 38.05 | 37.64 | 37.22 | 36.80 | 36.38 | 35.96 | 35.54 |
| -140 | 43.88 | 43.46 | 43.05 | 42.63 | 42.22 | 41.80 | 41.39 | 40.97 | 40.56 | 40.14 | 39.72 |
| -130 | 48.00 | 47.59 | 47.18 | 46.77 | 46.36 | 45.94 | 45.53 | 45.12 | 44.70 | 44.29 | 43.88 |
| -120 | 52.11 | 51.70 | 51.29 | 50.88 | 50.47 | 50.06 | 49.65 | 49.24 | 48.83 | 48.42 | 48.00 |
| -110 | 56.19 | 55.79 | 55.38 | 54.97 | 54.56 | 54.15 | 53.75 | 53.34 | 52.93 | 52.52 | 52.11 |
| -100 | 60.26 | 59.85 | 59.44 | 59.04 | 58.63 | 58.23 | 57.82 | 57.41 | 57.01 | 56.60 | 56.19 |
| -90 | 64.30 | 63.90 | 63.49 | 63.09 | 62.68 | 62.28 | 61.88 | 61.47 | 61.07 | 60.66 | 60.26 |
| -80 | 68.33 | 67.92 | 67.52 | 67.12 | 66.72 | 66.31 | 65.91 | 65.51 | 65.11 | 64.70 | 64.30 |
| -70 | 72.33 | 71.93 | 71.53 | 71.13 | 70.73 | 70.33 | 69.93 | 69.53 | 69.13 | 68.73 | 68.33 |
| -60 | 76.33 | 75.93 | 75.53 | 75.13 | 74.73 | 74.33 | 73.93 | 73.53 | 73.13 | 72.73 | 72.33 |
| -50 | 80.31 | 79.91 | 79.51 | 79.11 | 78.72 | 78.32 | 77.92 | 77.52 | 77.12 | 76.73 | 76.33 |
| -40 | 84.27 | 83.87 | 83.48 | 83.08 | 82.69 | 82.29 | 81.89 | 81.50 | 81.10 | 80.70 | 80.31 |
| -30 | 88.22 | 87.83 | 87.43 | 87.04 | 86.64 | 86.25 | 85.85 | 85.46 | 85.06 | 84.67 | 84.27 |
| -20 | 92.16 | 91.77 | 91.37 | 90.98 | 90.59 | 90.19 | 89.80 | 89.40 | 89.01 | 88.62 | 88.22 |
| -10 | 96.09 | 95.69 | 95.30 | 94.91 | 94.52 | 94.12 | 93.73 | 93.34 | 92.95 | 92.55 | 92.16 |
| 0 | 100.00 | 99.61 | 99.22 | 98.83 | 98.44 | 98.04 | 97.65 | 97.26 | 96.87 | 96.48 | 96.09 |
| ITS-90°C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 0 | 100.00 | 100.39 | 100.78 | 101.17 | 101.56 | 101.95 | 102.34 | 102.73 | 103.12 | 103.51 | 103.90 |
| 10 | 103.90 | 104.29 | 104.68 | 105.07 | 105.46 | 105.85 | 106.24 | 106.63 | 107.02 | 107.40 | 107.79 |
| 20 | 107.79 | 108.18 | 108.57 | 108.96 | 109.35 | 109.73 | 110.12 | 110.51 | 110.90 | 111.29 | 111.67 |
| 30 | 111.67 | 112.06 | 112.45 | 112.83 | 113.22 | 113.61 | 114.00 | 114.38 | 114.77 | 115.15 | 115.54 |
| 40 | 115.54 | 115.93 | 116.31 | 116.70 | 117.08 | 117.47 | 117.86 | 118.24 | 118.63 | 119.01 | 119.40 |
| 50 | 119.40 | 119.78 | 120.17 | 120.55 | 120.94 | 121.32 | 121.71 | 122.09 | 122.47 | 122.86 | 123.24 |
| 60 | 123.24 | 123.63 | 124.01 | 124.39 | 124.78 | 125.16 | 125.54 | 125.93 | 126.31 | 126.69 | 127.08 |
| 70 | 127.08 | 127.46 | 127.84 | 128.22 | 128.61 | 128.99 | 129.37 | 129.75 | 130.13 | 130.52 | 130.90 |
| 80 | 130.90 | 131.28 | 131.66 | 132.04 | 132.42 | 132.80 | 133.18 | 133.57 | 133.95 | 134.33 | 134.71 |
| 90 | 134.71 | 135.09 | 135.47 | 135.85 | 136.23 | 136.61 | 136.99 | 137.37 | 137.75 | 138.13 | 138.51 |
| 100 | 138.51 | 138.88 | 139.26 | 139.64 | 140.02 | 140.40 | 140.78 | 141.16 | 141.54 | 141.91 | 142.29 |
| 110 | 142.29 | 142.67 | 143.05 | 143.43 | 143.80 | 144.18 | 144.56 | 144.94 | 145.31 | 145.69 | 146.07 |
| 120 | 146.07 | 146.44 | 146.82 | 147.20 | 147.57 | 147.95 | 148.33 | 148.70 | 149.08 | 149.46 | 149.83 |
| 130 | 149.83 | 150.21 | 150.58 | 150.96 | 151.33 | 151.71 | 152.08 | 152.46 | 152.83 | 153.21 | 153.58 |
| 140 | 153.58 | 153.96 | 154.33 | 154.71 | 155.08 | 155.46 | 155.83 | 156.20 | 156.58 | 156.95 | 157.33 |
| 150 | 157.33 | 157.70 | 158.07 | 158.45 | 158.82 | 159.19 | 159.56 | 159.94 | 160.31 | 160.68 | 161.05 |
| 160 | 161.05 | 161.43 | 161.80 | 162.17 | 162.54 | 162.91 | 163.29 | 163.66 | 164.03 | 164.40 | 164.77 |
| 170 | 164.77 | 165.14 | 165.51 | 165.89 | 166.26 | 166.63 | 167.00 | 167.37 | 167.74 | 168.11 | 168.48 |
| 180 | 168.48 | 168.85 | 169.22 | 169.59 | 169.96 | 170.33 | 170.70 | 171.07 | 171.43 | 171.80 | 172.17 |
| 190 | 172.17 | 172.54 | 172.91 | 173.28 | 173.65 | 174.02 | 174.38 | 174.75 | 175.12 | 175.49 | 175.86 |
| 200 | 175.86 | 176.22 | 176.59 | 176.96 | 177.33 | 177.69 | 178.06 | 178.43 | 178.79 | 179.16 | 179.53 |
| 210 | 179.53 | 179.89 | 180.26 | 180.63 | 180.99 | 181.36 | 181.72 | 182.09 | 182.46 | 182.82 | 183.19 |
| 220 | 183.19 | 183.55 | 183.92 | 184.28 | 184.65 | 185.01 | 185.38 | 185.74 | 186.11 | 186.47 | 186.84 |
| 230 | 186.84 | 187.20 | 187.56 | 187.93 | 188.29 | 188.66 | 189.02 | 189.38 | 189.75 | 190.11 | 190.47 |
| 240 | 190.47 | 190.84 | 191.20 | 191.56 | 191.92 | 192.29 | 192.65 | 193.01 | 193.37 | 193.74 | 194.10 |

KVA Indústria e Comércio Ltda

R. Professora Alice Rosa Tavares, 250
37540-000 - Santa Rita do Sapucaí - MG
Fone: (35) 3471-5015 www.kva.com.br

