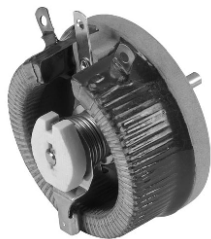


## Wirewound Rheostat / Potentiometer



### FEATURES

- 100 W at 25 °C
- CCTU 05-03B (PA5)
- Vitreous style
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

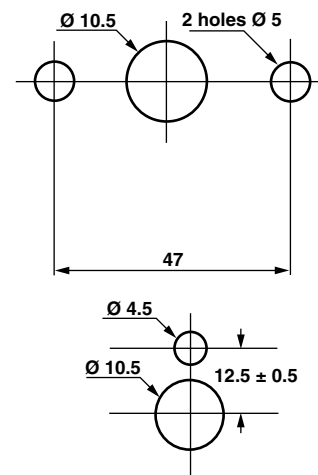
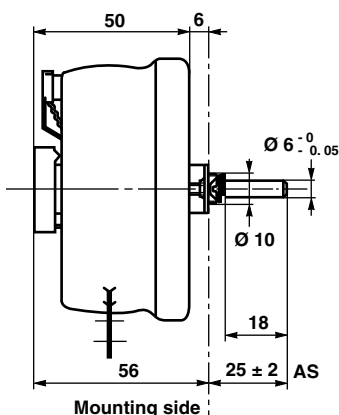
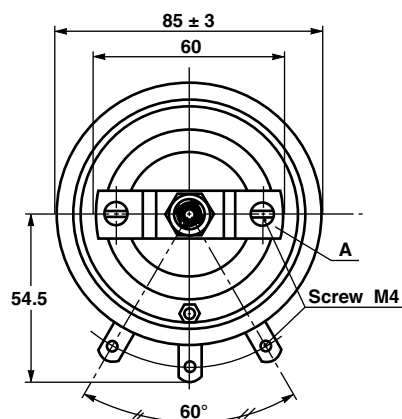


**RoHS**  
COMPLIANT

### DIMENSIONS in millimeters

RT100-P A5

PANEL CUT OUT DETAILS



### STANDARD ELECTRICAL SPECIFICATIONS

| MODEL | RESISTANCE RANGE<br>Ω | TOLERANCE<br>± % | RATED POWER<br>$P_{25\text{ °C}}$<br>W | VARIATION LAW<br>STANDARD (1) | LIMITING<br>ELEMENT VOLTAGE<br>V | DIELECTRIC<br>STRENGTH<br>$V_{\text{RMS}}$ | INSULATION<br>RESISTANCE<br>Ω         |
|-------|-----------------------|------------------|----------------------------------------|-------------------------------|----------------------------------|--------------------------------------------|---------------------------------------|
| RT100 | 1 to 15K              | 10               | 100                                    | Linear                        | 850                              | 1500                                       | $10^3\text{M}$ (500 $V_{\text{CC}}$ ) |

#### Note

(1) On request: sectorial winding

### CLIMATIC SPECIFICATIONS

|                   |                               |
|-------------------|-------------------------------|
| Temperature range | -55 °C; +320 °C               |
| Climatic category | CCTU 454<br>CEI 55 / 200 / 56 |

### MECHANICAL SPECIFICATIONS

|                       |                         |
|-----------------------|-------------------------|
| Mechanical protection | Vitreous                |
| Mechanical travel     | $300^\circ \pm 5^\circ$ |
| Operating torque      | 4 Ncm to 20 Ncm         |
| End stop torque       | 100 Ncm                 |
| Unit weight           | 400 g                   |

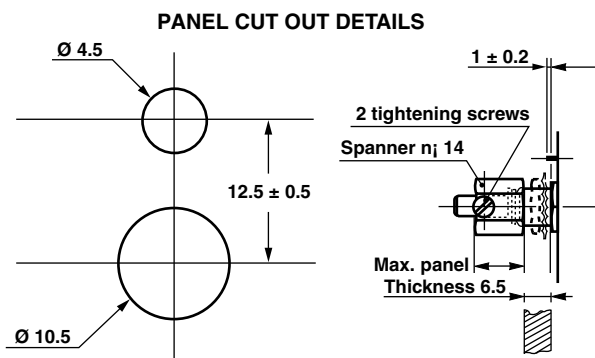
## LOCKING DEVICE

Supplied as an option the spindle locking device can only be fitted to units with control mounting and locating peg.

The part A is removed (see drawing).

The available spindle length is according to the panel thickness.

Order reference: DBA6



| SPINDLES |                               |                   |      |
|----------|-------------------------------|-------------------|------|
| Ø mm     | DISTANCE TO MOUNTING PLATE mm | SCREW DRIVER SLOT | CODE |
| 6        | 22                            | Without           | AD   |
|          |                               | With              | ADF  |
|          | 25                            | With              | ASF  |
|          |                               | Without           | AL   |
|          | 50                            | Without           | AS   |

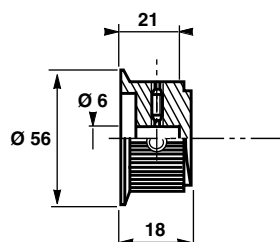
### Note

- For any special requirement on request: spindle flats, etc. Please supply detailed drawing.

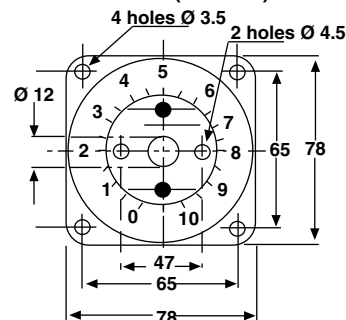
## PARTICULAR CHARACTERISTICS

| NOMINAL RESISTANCE<br>Ω | MAX. SERVICE VOLTAGE<br>V | MAX. CURRENT THROUGH WIPER<br>A |
|-------------------------|---------------------------|---------------------------------|
| 1                       | 10                        | 10                              |
| 1.5                     | 12.2                      | 8.16                            |
| 2.2                     | 14.8                      | 6.74                            |
| 3.3                     | 18.2                      | 5.50                            |
| 4.7                     | 21.7                      | 4.61                            |
| 6.8                     | 26.1                      | 3.84                            |
| 10                      | 31.6                      | 3.16                            |
| 15                      | 38.7                      | 2.58                            |
| 22                      | 46.9                      | 2.13                            |
| 33                      | 57.4                      | 1.74                            |
| 47                      | 68.6                      | 1.46                            |
| 68                      | 82.5                      | 1.2                             |
| 100                     | 100                       | 1                               |
| 150                     | 122                       | 0.816                           |
| 220                     | 148                       | 0.674                           |
| 330                     | 182                       | 0.550                           |
| 470                     | 217                       | 0.461                           |
| 680                     | 261                       | 0.384                           |
| 1K                      | 316                       | 0.316                           |
| 1.5K                    | 387                       | 0.258                           |
| 2.2K                    | 469                       | 0.213                           |
| 3.3K                    | 574                       | 0.174                           |
| 4.7K                    | 686                       | 0.146                           |
| 6.8K                    | 825                       | 0.121                           |
| 10K                     | 850                       | 0.085                           |
| 15K                     | 850                       | 0.057                           |

## COMMAND KNOB 41JF (OPTION)



## DIAL CG78 (OPTION)



## MARKING

Vishay Sfernice trademark, series, style, ohmic value (in Ω or kΩ), tolerance (in %), maximum current in A, manufacturing date.



## ORDERING INFORMATION

|           |            |           |             |           |           |                |
|-----------|------------|-----------|-------------|-----------|-----------|----------------|
| <b>RT</b> | <b>100</b> | <b>AL</b> | <b>6801</b> | <b>K</b>  | <b>B</b>  | <b>XXX</b>     |
| MODEL     | STYLE      | SPINDLE   | OHMIC VALUE | TOLERANCE | PACKAGING | SPECIAL DESIGN |

## GLOBAL PART NUMBER INFORMATION

|              |            |                       |                                                                                          |                                                                                            |                                                                                                                                                                                                                                                                                    |          |          |                                   |                       |                                   |          |          |
|--------------|------------|-----------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-----------------------------------|-----------------------|-----------------------------------|----------|----------|
| <b>R</b>     | <b>T</b>   | <b>1</b>              | <b>0</b>                                                                                 | <b>0</b>                                                                                   | <b>A</b>                                                                                                                                                                                                                                                                           | <b>S</b> | <b>2</b> | <b>2</b>                          | <b>R</b>              | <b>0</b>                          | <b>K</b> | <b>B</b> |
| GLOBAL MODEL | SIZE       | LOCKING DEVICE (OPT.) | WINDING (OPT.)                                                                           | COMMAND SHAFT                                                                              | OHMIC VALUE                                                                                                                                                                                                                                                                        |          |          | TOLERANCE                         | PACKAGING             | SPECIAL                           |          |          |
| <b>RT</b>    | <b>100</b> | <b>D</b>              | <b>BXXX</b><br>or<br><b>BXXXX</b><br><br>As applicable<br>xxx(x) =<br>internal<br>number | <b>AS</b> = standard<br>(Diam: 6 mm)<br><b>AL</b><br><b>ASF</b><br><b>AD</b><br><b>ADF</b> | The three first digits are<br>significant figures and<br>the last digit specifies<br>the number of zeros to<br>follow. R designates<br>decimal point.<br><br><b>2002</b> = 20 k $\Omega$<br><b>4700</b> = 470 $\Omega$<br><b>22R0</b> = 22 $\Omega$<br><b>0R01</b> = 0.01 $\Omega$ |          |          | <b>J</b> = 5 %<br><b>K</b> = 10 % | <b>B</b> = box<br>BO1 | As applicable<br><b>Ex</b> = DXxx |          |          |

## RELATED DOCUMENTS

### APPLICATION NOTES

|                                                                   |                                                                        |
|-------------------------------------------------------------------|------------------------------------------------------------------------|
| Potentiometers and Trimmers                                       | <a href="http://www.vishay.com/doc?51001">www.vishay.com/doc?51001</a> |
| Guidelines for Vishay Sfernice Resistive and Inductive Components | <a href="http://www.vishay.com/doc?52029">www.vishay.com/doc?52029</a> |



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