

8403C6-10-2 Art. No. 262735



- Various versions of ammeters, for Ex e enclosures
- Quick comparison of measured values using externally adjustable red pointer on the device
- On models with CT connection (1 A, 5 A), it is possible to easily and rapidly assign the measuring range using the push-in scale plate

MY R. STAHL 8403B



R. STAHL Series 8403C6 ammeters are installed in enclosures with Ex e type of protection. They provide measured values for the current which can be quickly compared with the target values via a red pointer affixed on the outside. The devices use a moving iron movement with accuracy class 2.5.

### Technical Data

#### Explosion Protection

|                                |  |
|--------------------------------|--|
| Area of application            | European Union (ATEX)<br>IECEX   |
| Ex version                     | Ex e   |
| Application range (zones)      | 1, 2   |
| IECEX gas certificate          | IECEX SIQ 17.0003U   |
| IECEX gas explosion protection | Ex eb mb IIC T6 ... T4 Gb  |
| IECEX firedamp certificate     | IECEX SIQ 17.0003U   |
| IECEX firedamp protection      | Ex eb mb I Mb  |
| ATEX gas certificate           | SIQ 17 ATEX 192 U  |
| ATEX gas explosion protection  | Ⓔ II 2 G Ex eb mb IIC T6 ... T4 Gb   |
| ATEX firedamp certificate      | SIQ 17 ATEX 192 U  |
| ATEX firedamp protection       | Ⓔ I M2 Ex eb mb I Mb   |
| Marking ULus                   | Class I, Zone 1 AEx eb mb IIC T6, T5, T4 Gb U<br>Class I, Div. 2, Groups A,B,C,D, T6 |
| Marking cUL                    | Class I, Zone 1 Ex eb mb IIC T6, T5, T4 Gb U<br>Class I, Div. 2, Groups A,B,C,D, T6  |
| Certificates                   | ATEX (SIQ), Brazil (ULB), Canada / USA (UL), IECEX (SIQ), Korea (KGS)                |
| Explosion protection note      | For product label, see scope of validity.  |

#### Electrical Data

|                                  |                 |
|----------------------------------|-----------------|
| Rated operational voltage AC UL  | 600 V           |
| Rated insulation voltage         | 690 V           |
| Frequency                        | 50/60 Hz AC, DC |
| Rated operational current for AC | 10 A            |
| Rated operational current UL     | 10 A            |
| Power dissipation                | 0.67 VA         |
| Movement                         | 0 to 10 A       |
| Overload scale                   | 2x              |

# Control and signalling devices

## Moving iron ammeter Direct measuring



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### Electrical Data

|                   |                           |
|-------------------|---------------------------|
| Overload capacity | 50 x I <sub>N</sub> 1 sec |
| Frequency range   | 16 – 100 Hz AC, DC        |

### Ambient Conditions

|                          |  |
|--------------------------|--|
| Ambient temperature      | -40 °C ... +40 °C (T6)<br>-40 °C ... +55 °C (T5)<br>-40 °C ... +70 °C (T4)   |
| Ambient temperature      | -40 °F ... +104 °F (T6)<br>-40 °F ... +131 °F (T5)<br>-40 °F ... +158 °F (T4)  |
| Ambient temperature note | T6: -40 °C ≤ T <sub>amb</sub> ≤ +40 °C<br>T5: -40 °C ≤ T <sub>amb</sub> ≤ +55 °C<br>T4: -40 °C ≤ T <sub>amb</sub> ≤ +70 °C |
| Use at the height of     | 2000 m   |
| Degree of pollution      | 3  |

### Mechanical Data

|  |                                       |
|--|---------------------------------------|
| Version  | direct measuring                      |
| Degree of protection (IP)                              | IP54                                  |
| Degree of protection (IP) terminals                    | IP20                                  |
| Enclosure material                                     | Polycarbonate                         |
| Silicone-free  | No                                    |
| Pane material  | Glass                                 |
| Terminals  | Screw connector (strain-relief clamp) |
| Max. USA finely stranded/flexible connection terminals | 9 AWG                                 |
| Connection cross-section                               | 6 mm <sup>2</sup>                     |
| Min. connection cross section, solid                   | 2,5 mm <sup>2</sup>                   |
| Max. connection cross section, solid                   | 10 mm <sup>2</sup>                    |
| Min. connection cross-section, finely stranded         | 2,5 mm <sup>2</sup>                   |
| Max. connection cross-section, finely stranded         | 6 mm <sup>2</sup>                     |
| Stripping length                                       | 10 mm                                 |
| Stripping length inch                                  | 0.39 in                               |
| Min. tightening torque                                 | 1.2 Nm                                |
| Min. tightening torque lb                              | 10.62 lb                              |
| Max. tightening torque                                 | 1.5 Nm                                |
| Max. tightening torque lb                              | 13.27 lb                              |
| Width  | 72 mm                                 |
| Width, inches  | 2.83 in                               |
| Height   | 71.2 mm                               |
| Height in inches                                       | 2.8 in                                |
| Depth  | 72 mm                                 |
| Depth in inches  | 2.83 in                               |
| Accuracy class   | 2.5                                   |
| Weight   | 310 g                                 |
| Weight   | 0.68 lb                               |

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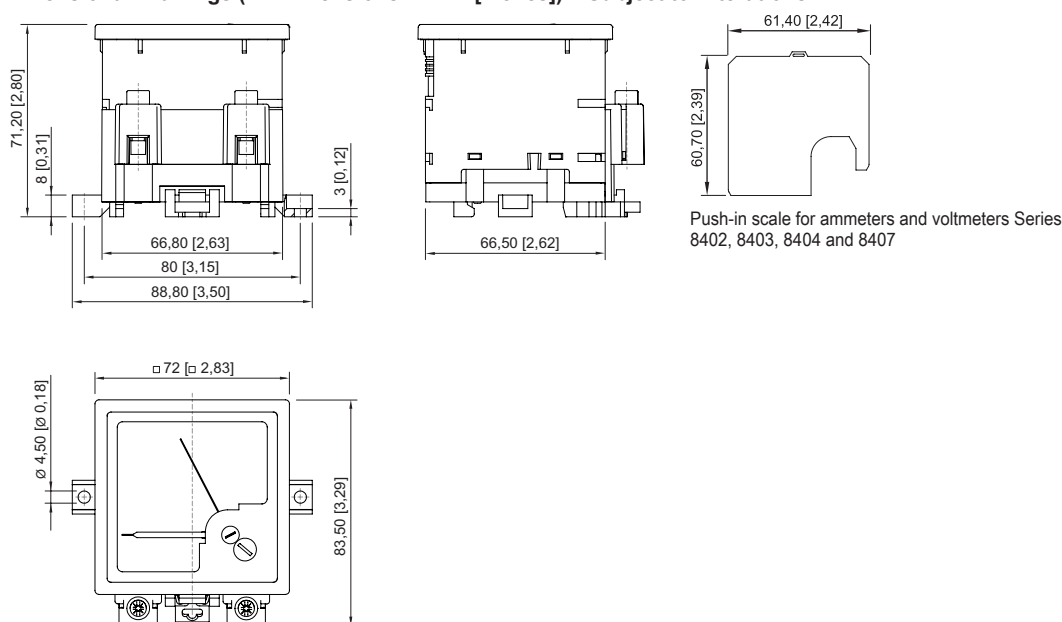
### Mounting / Installation

|                                     |  |
|-------------------------------------|--|
| Mounting                            | Variant 1: Engage on DIN rail<br>Variant 2: Mounting with screws on mounting plate |
| Mounting orientation                | Vertical   |
| Max. USA solid connection terminals | 7 AWG  |

### Components

|       |              |
|-------|--------------|
| Scale | 0 to 10/20 A |
|-------|--------------|

### Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



### Spare Parts

| Calotte |                                  | Art. No. |
|---------|----------------------------------|----------|
|         | Calotte [2.83 x 2.83 inch]; IP66 | 155942   |

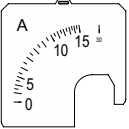
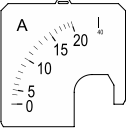
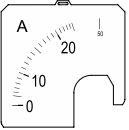
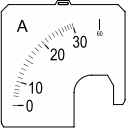
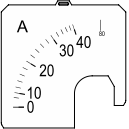
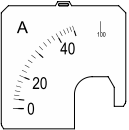
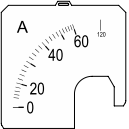
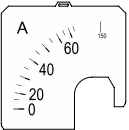
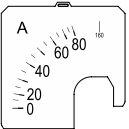
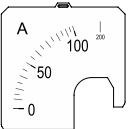
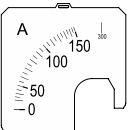
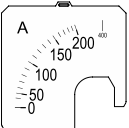
| Push-in scales |                                    | Art. No. |
|----------------|------------------------------------|----------|
|                | Overload: 2 times Scale: 0 to 1 A  | 265717   |
|                | Overload: 2 times Scale: 0 to 5 A  | 265719   |
|                | Overload: 2 times Scale: 0 to 10 A | 265721   |

# Control and signalling devices

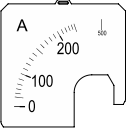
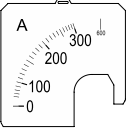
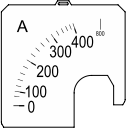
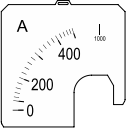
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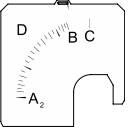
|  |                                     |        |
|--|-------------------------------------|--------|
|    | Overload: 2 times Scale: 0 to 15 A  | 265723 |
|    | Overload: 2 times Scale: 0 to 20 A  | 265725 |
|    | Overload: 2 times Scale: 0 to 25 A  | 265727 |
|    | Overload: 2 times Scale: 0 to 30 A  | 265729 |
|   | Overload: 2 times Scale: 0 to 40 A  | 265731 |
|  | Overload: 2 times Scale: 0 to 50 A  | 265733 |
|  | Overload: 2 times Scale: 0 to 60 A  | 265735 |
|  | Overload: 2 times Scale: 0 to 75 A  | 265737 |
|  | Overload: 2 times Scale: 0 to 80 A  | 265739 |
|  | Overload: 2 times Scale: 0 to 100 A | 265741 |
|  | Overload: 2 times Scale: 0 to 150 A | 265743 |
|  | Overload: 2 times Scale: 0 to 200 A | 265745 |

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|  |                                     |        |
|--|-------------------------------------|--------|
|  | Overload: 2 times Scale: 0 to 250 A | 265747 |
|  | Overload: 2 times Scale: 0 to 300 A | 265750 |
|  | Overload: 2 times Scale: 0 to 400 A | 265752 |
|  | Overload: 2 times Scale: 0 to 500 A | 265754 |

**Push-in scale according to specification**

**Art. No.**

|   |  |        |
|---|--|--------|
|  | <p><b>Mandatory information</b></p> <p>A<sub>2</sub> = measuring range starting value<br/>                 B = measuring range end value<br/>                 C = overload value<br/>                 D = unit</p> | 265189 |
|---|--|--------|

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.