

Control and signalling devices

Moving coil ammeter Direct measuring

for Ex i electrical circuits Ammeter

8402C6-420 Art. No. 267110

STAHL



- Various versions of ammeters, for Ex i circuits and Ex e enclosures
- Quick comparison of measured values using externally adjustable red pointer on the device
- Selection of various current measuring ranges from 0 to 20 mA or 4 to 20 mA

MY R. STAHL 8402B



R. STAHL Series 8402C6 ammeters are installed in enclosures with Ex e type of protection. They provide measured values for the current in Ex i circuits 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) IECEx
Ex version	Ex i
Application range (zones)	1, 2, 21, 22
IECEx gas certificate	IECEx SIQ 18.0003X
IECEx gas explosion protection	Ex ib IIC T6 ... T4 Gb
IECEx firedamp certificate	IECEx SIQ 18.0003X
ATEX gas certificate	SIQ 18 ATEX 018 X
ATEX gas explosion protection	II 2 G Ex ib IIC T6 ... T4 Gb
ATEX firedamp certificate	SIQ 18 ATEX 018 X
Certificates	ATEX (SIQ), Brazil (ULB), IECEx (SIQ), Korea (KTL)
Explosion protection note	For product label, see scope of validity.

Safety Data

Internal capacitance C_i	0 nF
Internal inductance L_i	90 μ H

Electrical Data

Rated insulation voltage	300 V
Rated operational current for AC	0.02 A
Internal resistance R_i	3 Ω
Max. short-circuit current	160 mA
Movement	4 to 20 mA
Overload capacity	without
Frequency range	DC

Ambient Conditions

Ambient temperature	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)
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Ambient Conditions

Ambient temperature	-40 °F ... +104 °F (T6) -40 °F ... +131 °F (T5) -40 °F ... +158 °F (T4)
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	Polyamide
Silicone-free	Yes
Pane material	Glass
Terminals	Screw connector (strain-relief clamp)
Max. USA finely stranded/flexible connection terminals	11 AWG
Connection cross-section	4 mm ²
Min. connection cross section, solid	2,5 mm ²
Max. connection cross section, solid	6 mm ²
Min. connection cross-section, finely stranded	2,5 mm ²
Max. connection cross-section, finely stranded	4 mm ²
Stripping length	10 mm
Stripping length inch	0.39 in
Min. tightening torque	1.2 N · m
Min. tightening torque lb	10.62 lb
Max. tightening torque	1.5 N · m
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	220 g
Weight	0.49 lb

Mounting / Installation

Mounting	Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate
Mounting orientation	Vertical
Max. USA solid connection terminals	9 AWG

Components

Scale	0 to 100%
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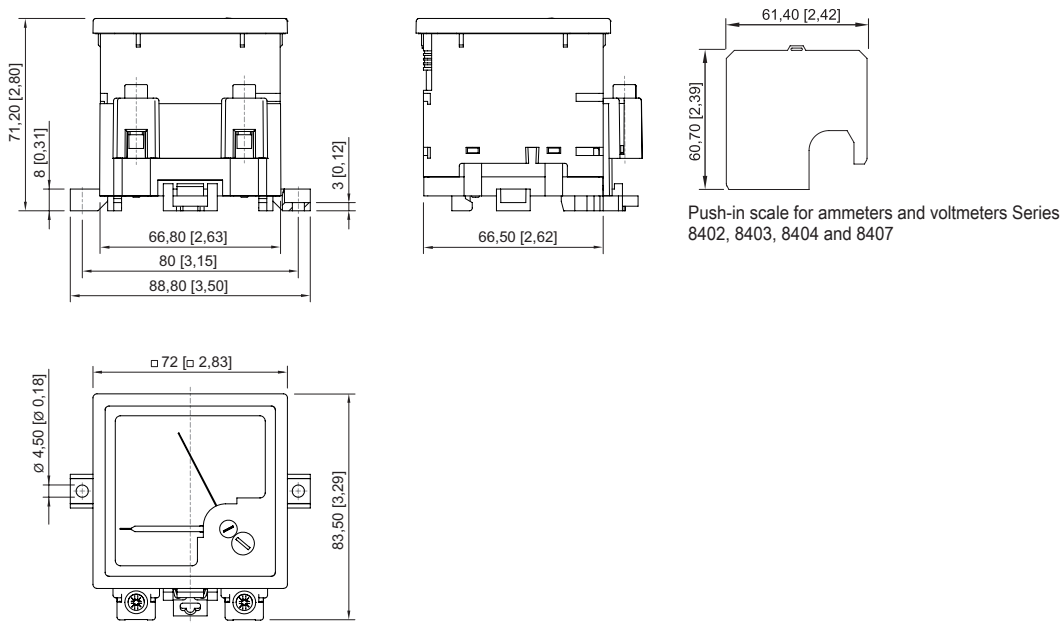
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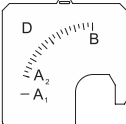
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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Spare Parts

Calotte		Art. No.
	Calotte [2.83 x 2.83 inch]; IP66	155942
Push-in scale according to specification		Art. No.
	Mandatory information at 4 to 20 mA A_1, A_2, B, D A_1 = zero point A_2 = measuring range starting value B = measuring range end value D = unit	302951

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.