



Measuring instrument AM72

Type 413 85

Type 413 84

Technical data

| Ex-control stations Type 413 84 Type 413 85 | | | | | | | | | | | |
|--|--|------|------|--|--|---|---|---|---|---|---|
| Marking accd. to 94/9/EC | ⓧ II 2 G Ex ed ibm IIC T6 ⓧ II 2 D Ex tD A21 IP66 T80 °C | | | | | | | | | | |
| EC-Type Examination Certificate | PTB 00 ATEX 3117 | | | | | | | | | | |
| IECEX Certificate of Conformity | IECEX BKI 04.0003 | | | | | | | | | | |
| Marking accd. to IECEx | Ex e II T6, Ex e ib IIC T6, Ec ed IIC T6 or Ex ed ib IIC T6 | | | | | | | | | | |
| Permissible ambient temperature | -20 °C up to +40 °C -55 °C up to +55 °C (option) | | | | | | | | | | |
| Rated voltage | 690 V AC (with control switch GHG 23 to 500 V) | | | | | | | | | | |
| Rated current | 16 A (with control switch GHG 23 max. 10 A) | | | | | | | | | | |
| Rated making-/rated breaking capacity accd. EN 60947-5-1 | <table border="0"> <tr> <td>Ex41</td> <td>Ex23</td> </tr> <tr> <td>AC-15: U_o 250 V / I_o 6 A</td> <td>AC-15: U_o 230 V / I_o 6 A</td> </tr> <tr> <td>U_o 500 V / I_o 4 A</td> <td>U_o 500 V / I_o 4 A</td> </tr> <tr> <td>DC-13: U_o 24 V / I_o 6 A</td> <td>DC-13: U_o 24 V / I_o 2 A</td> </tr> <tr> <td>U_o 220 V / I_o 1 A</td> <td>U_o 230 V / I_o 0.5 A</td> </tr> </table> | Ex41 | Ex23 | AC-15: U _o 250 V / I _o 6 A | AC-15: U _o 230 V / I _o 6 A | U _o 500 V / I _o 4 A | U _o 500 V / I _o 4 A | DC-13: U _o 24 V / I _o 6 A | DC-13: U _o 24 V / I _o 2 A | U _o 220 V / I _o 1 A | U _o 230 V / I _o 0.5 A |
| Ex41 | Ex23 | | | | | | | | | | |
| AC-15: U _o 250 V / I _o 6 A | AC-15: U _o 230 V / I _o 6 A | | | | | | | | | | |
| U _o 500 V / I _o 4 A | U _o 500 V / I _o 4 A | | | | | | | | | | |
| DC-13: U _o 24 V / I _o 6 A | DC-13: U _o 24 V / I _o 2 A | | | | | | | | | | |
| U _o 220 V / I _o 1 A | U _o 230 V / I _o 0.5 A | | | | | | | | | | |
| Connecting terminals | 2 x 4 mm ² | | | | | | | | | | |
| Protection class | I | | | | | | | | | | |
| Degree of protection accd. to EN 60529 | IP66 | | | | | | | | | | |
| Cable glands/Gland plates/Enclosure drilling | 1 x M20 threaded entry | | | | | | | | | | |
| Enclosure material | High quality cast aluminium (AlSi) | | | | | | | | | | |
| Enclosure colour | grey RAL 7031 | | | | | | | | | | |

Type 413 84

| | |
|------------------------|-------------------|
| Dimensions (L x W x H) | 122 x 120 x 81 mm |
| Weight (empty) | 0.85 kg |

Type 413 85

| | |
|------------------------|-------------------|
| Dimensions (L x W x H) | 220 x 120 x 81 mm |
| Weight (empty) | 1.45 kg |

Type 413 84 with measuring instrument AM 72

| | | |
|---|---|------------------------|
| Movement | Moving iron | Moving coil |
| Marking accd. to 94/9/EC | ⓧ II G Ex e II | ⓧ II G Ex ib IIC |
| Accuracy | Class 2.5 | Class 1.5 |
| Overload range | 10-fold -25 sec. 25-fold - 4 sec. 50-fold - 1 sec. indicated 1:1.5, optional 1:6, 1:10 | 10-fold -5 sec. |
| Measuring range | n / 1A 0 - 25 A direct | 0 - 20 mA 4 - 20 mA |
| Inductance L _i | - | ≤ 0.1 mH |
| Capacitance C _i | - | ≤ 0.1 nF |
| Open circuit voltage max. U _i | - | 30 V |
| Short circuit current max. I _i | - | 150 mA |
| Connecting terminals | 2 x 1.5 - 4 mm ² | |
| Weight | 1.25 kg | |

¹⁾ Base enclosure can be rotated after wards (entry from top or down)

Other versions available on request

Ex-control stations



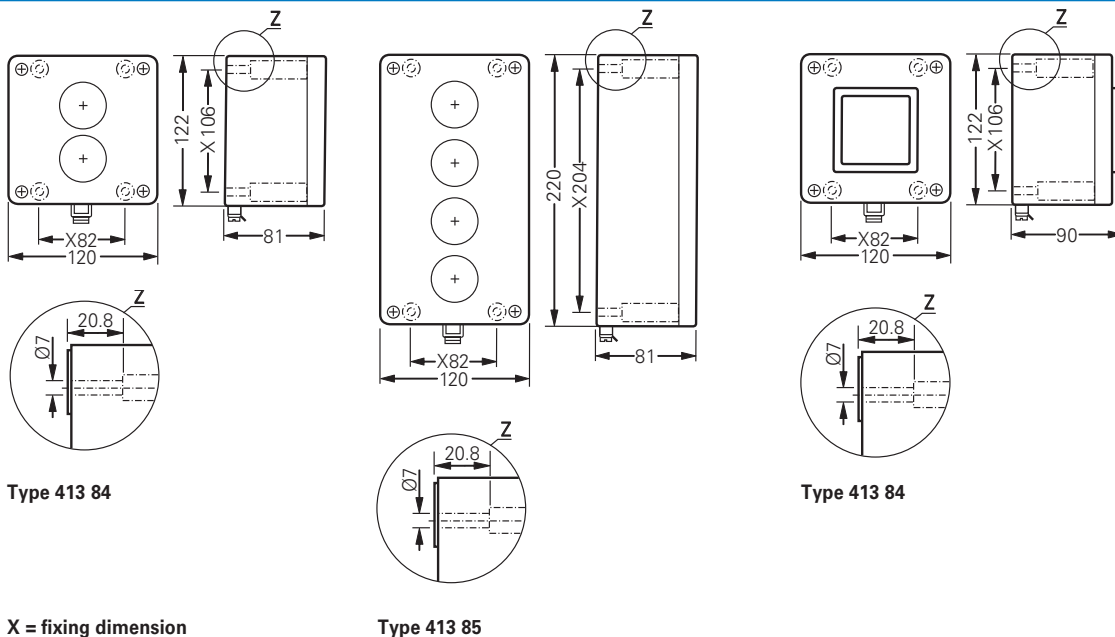
Measuring instrument AM72

4

Ordering details Type 413 84 with measuring instrument AM72

| Content Movement | Weight approx. | Order No. | |
|---|----------------|-----------|---------------------------|
| Version direct measurement with 1 x threaded entry M20 | | | |
| 0 - 1 / 1.5 A | Moving iron | 1.25 kg | GHG 413 8481 R0002 |
| 0 - 2.5 / 3.75 A | Moving iron | 1.25 kg | GHG 413 8481 R0003 |
| 0 - 5 / 7.5 A | Moving iron | 1.25 kg | GHG 413 8481 R0004 |
| 0 - 10 / 15 A | Moving iron | 1.25 kg | GHG 413 8481 R0005 |
| 0 - 16 / 24 A | Moving iron | 1.25 kg | GHG 413 8481 R0007 |
| 0 - 20 / 24 mA 0-100% / 120% (Ri =320 Ω) | Moving coil | 1.35 kg | GHG 413 8481 R0033 |
| 4 - 20 / 24 mA 0-100% / 120% (Ri =320 Ω) | Moving coil | 1.35 kg | GHG 413 8481 R0035 |
| Version CT connection n/1A with 1 x threaded entry M20 | | | |
| 0 - 1 / 1.5 A | Moving iron | 1.25 kg | GHG 413 8482 R0002 |
| 0 - 2.5 / 3.75 A | Moving iron | 1.25 kg | GHG 413 8482 R0003 |
| 0 - 5 / 7.5 A | Moving iron | 1.25 kg | GHG 413 8482 R0004 |
| 0 - 10 / 15 A | Moving iron | 1.25 kg | GHG 413 8482 R0005 |
| 0 - 15 / 22.5 A | Moving iron | 1.25 kg | GHG 413 8482 R0007 |
| 0 - 20 / 30 A | Moving iron | 1.25 kg | GHG 413 8482 R0008 |
| 0 - 30 / 45 A | Moving iron | 1.25 kg | GHG 413 8482 R0009 |
| 0 - 40 / 60 A | Moving iron | 1.25 kg | GHG 413 8482 R0010 |
| 0 - 50 / 75 A | Moving iron | 1.25 kg | GHG 413 8482 R0011 |
| 0 - 60 / 90 A | Moving iron | 1.25 kg | GHG 413 8482 R0012 |
| 0 - 75 / 112.5 A | Moving iron | 1.25 kg | GHG 413 8482 R0013 |
| 0 - 100 / 150 A | Moving iron | 1.25 kg | GHG 413 8482 R0014 |
| 0 - 100% / 150% | Moving iron | 1.25 kg | GHG 413 8482 R0033 |

Dimension drawing



Dimensions in mm