

## Remote I/O

IS1 RIO standard encl. Zone 2 With shield bus  
and power terminals

7145/54-0400-0750-0300 Art. No. 282643

STAHL



- Short delivery times
- Can be used in Zone 2 without acceptance testing or certification
- Ready for use, prefabricated with entries, BusRails, connection terminals, etc.
- Modifications, extensions and customer-specific adaptations are possible

MY R. STAHL 7145F



With the IS1+ standard enclosures for Zone 2, we offer you a variety of prefabricated field enclosures made from 1.4301 stainless steel (V2A). They include all entries, BusRails, cable ducts and connection terminals for auxiliary power.

Once the IS1+ components (available separately) have been installed, the enclosures can be used in Zone 2 without acceptance testing, and they fulfil the requirements of EN 61439.

### Technical Data

#### Explosion Protection

|                                |                                                                                     |
|--------------------------------|-------------------------------------------------------------------------------------|
| Application range (zones)      | 2                                                                                   |
| IECEX gas certificate          | IECEX TUR 15.0027                                                                   |
| IECEX gas explosion protection | Ex ec ia ib [ia Ga, ib] IIC T4 Gc                                                   |
| ATEX gas certificate           | TÜV 18 ATEX 8178                                                                    |
| ATEX gas explosion protection  | Ex II 3 (1) G Ex ec ia ib [ia Ga, ib] IIC T4 Gc                                     |
| Certificates                   | ATEX (TUR), IECEX (TUR)                                                             |
| Declaration of conformity      | ATEX (EUK)                                                                          |
| Installation                   | Zone 2                                                                              |
| Further information            | See the operating instructions and certificates for the enclosures and IS1+ modules |

#### Electrical Data

|                                  |                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Applicable IS1+ CPM modules      | 9440/15-01-11-C1198 (Modbus RTU)                                                                                               |
| Applicable IS1+ CPU modules      | 9442/35-10-00 (multi-protocol: PROFIBUS DP V1 HART, PROFIBUS DP V1 HART for PNO redundancy, Modbus TCP, PROFINET, EtherNet/IP) |
| Applicable IS1+ CPU modules note | CPU together with 9445/35 power module and 9496/35 socket                                                                      |
| Usable IS1+ power modules        | 9445/35                                                                                                                        |
| Usable IS1+ base                 | 9496/35-04                                                                                                                     |
| Usable IS1+ I/O modules          | 9470/33<br>9475/33<br>9482/33<br>9469/35<br>9471/35<br>9472/35<br>9477/15<br>9468/33                                           |
| Applicable IS1+ modules note     | The IS1+ modules must be installed according to the corresponding operating instructions for the modules.                      |

#### Auxiliary Power

|                                |                          |
|--------------------------------|--------------------------|
| Aux. power rated oper. voltage | 24 V DC (20 ... 35 V DC) |
|--------------------------------|--------------------------|

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### Auxiliary Power

|                                 |                                                                        |
|---------------------------------|------------------------------------------------------------------------|
| Auxiliary power nominal current | Max. 4 A @ 24 V DC                                                     |
| Auxiliary power rated current   | Depending on the installed IS1+ modules (see corresponding data sheet) |

### Device Specific Data

|                                     |                                                                |
|-------------------------------------|----------------------------------------------------------------|
| Max. number of analogue I/O signals | 40                                                             |
| Max. number of digital I/O signals  | 80                                                             |
| Max. internal power dissipation     | 52 W                                                           |
| IS1+ BusRail                        | 1 x BusRail for 6 slots                                        |
| Shield bus                          | 2 x KLBÜ 3...8<br>30 x AK4                                     |
| Front door                          | 1 x opening upwards<br>3 x cam lock<br>1 x right cover support |

### Ambient Conditions

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Ambient temperature | -40°C ... +55°C                                                             |
| Ambient temperature | -40°F ... +122°F                                                            |
| Storage temperature | -40°C ... +80°C                                                             |
| Storage temperature | -40°F ... +176°F                                                            |
| Note                | Also see the technical data of the IS1+ modules in the relevant data sheets |

### Mechanical Data

|                                       |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| Connection auxiliary power            | Screw connector 0.2 to 10 mm <sup>2</sup> (4 x UT6; 2 x UT6-PE) |
| PE connection version                 | External M8 PE connection                                       |
| PE connection clamping range          | 10 – 25 mm <sup>2</sup>                                         |
| Degree of protection (IP) (IEC 60529) | IP65                                                            |
| Enclosure material                    | Stainless steel 1.4301, (V2A, AISI 304)<br>Brush finished       |
| Sealing material                      | Silicone foam gasket                                            |
| Silicone-free                         | No                                                              |
| Wall thickness                        | 2 mm                                                            |
| Connection cross-section              | 0.2 to 10 mm <sup>2</sup>                                       |
| Dimensions (WxHxD)                    | 400 x 750 x 300 mm                                              |
| Width                                 | 400 mm                                                          |
| Width, inches                         | 15.75 in                                                        |
| Height                                | 750 mm                                                          |
| Height in inches                      | 29.53 in                                                        |
| Depth                                 | 300 mm                                                          |
| Depth in inches                       | 11.81 in                                                        |
| Weight                                | 25 kg                                                           |
| Weight                                | 55.12 lb                                                        |

### Mounting / Installation

|                      |                        |
|----------------------|------------------------|
| Mounting orientation | Horizontal<br>Vertical |
| Connection type      | Screw connector        |

### Components

|                 |                                                         |
|-----------------|---------------------------------------------------------|
| Built-in unit 1 | 1 x BusRail for 6 slots<br>(1 x CPM, 5 x I/O – modules) |
|-----------------|---------------------------------------------------------|

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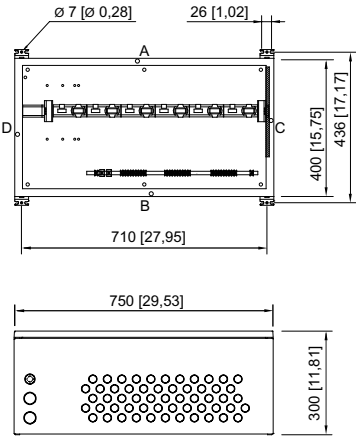
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Components

|                               |                                                                       |
|-------------------------------|-----------------------------------------------------------------------|
| Auxiliary power cably entries | 2 x Black cable gland<br>Polyamide, type 8161/7<br>M32 Ø 9 ... 21 mm  |
| Cable entries signals         | 60 x Black cable gland<br>Polyamide, type 8161/7<br>M20 Ø 4 ... 13 mm |
| Breather                      | 1 x Breather, green, Polyamide, type 8162<br>M25 x 1,5                |
| Type of terminals 1           | 4 x UT6                                                               |
| Type of terminals PE 1        | 2 x UT6-PE                                                            |
| Earth rail                    | Zinc galvanised (not insulated)<br>10 x 3 (1x)                        |

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



1 x BusRail for 6 slots

Item no. 282643

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.