

8118/121-805 Art. No. 133114



- Resistant Ex e enclosure, universally usable as connection or junction boxes and/or to safeguard electric distributors up to 6.3 A
- IP66 degree of protection
- With mantle terminals or with a combination of mantle terminals and miniature fuses (optional)

WebCode **8118A**



R. STAHL Series 8118 junction boxes are equipped with 4, 5 or 8 mantle terminals depending on their design size. As an option, miniature fuses can still be installed in addition. Junction boxes are therefore also suitable for safeguarding. The robust enclosure made from glass fibre reinforced polyester resin can be equipped with plastic or metal cable glands.

Technical Data

Explosion Protection

Scope of validity	European Union (ATEX) IECEx
Application range (zones)	1 2 21 22
IECEx gas certificate	IECEx PTB 06.0026
IECEx gas explosion protection	Ex eb IIC T6 ... T5 Gb
IECEx dust certificate	IECEx PTB 06.0026
IECEx dust explosion protection	Ex tb IIIC T80 °C / T95 °C Db
ATEX gas certificate	PTB 99 ATEX 3103
ATEX gas explosion protection	II 2 G Ex eb IIC T6 ... T5 Gb
ATEX dust certificate	PTB 99 ATEX 3103
ATEX dust explosion protection	II 2 D Ex tb IIIC T80 °C / T95 °C Db
Certificates	ATEX (PTB), Brazil (ULB), China (NEPSI), IECEx (PTB), Korea (KGS)
Explosion protection note	For product label, see scope of validity.

Electrical Data

Rated operational voltage AC	0 – 750 V
Permissible rated operational current with 7 loaded terminals	for conductor cross-section 1.5 mm²: 13 A for conductor cross-section 2.5 mm²: 17 A for conductor cross-section 4 mm²: 24 A for conductor cross-section 6 mm²: 32 A
Permissible rated operational current with 6 loaded terminals	for conductor cross-section 1.5 mm²: 14 A for conductor cross-section 2.5 mm²: 18 A for conductor cross-section 4 mm²: 25 A for conductor cross-section 6 mm²: 33 A

8118/121-805 Art. No. 133114

Electrical Data

Permissible rated operational current with 5 loaded terminals	for conductor cross-section 1.5 mm ² : 14 A for conductor cross-section 2.5 mm ² : 20 A for conductor cross-section 4 mm ² : 25 A for conductor cross-section 6 mm ² : 35 A
Permissible rated operational current with ≤ 4 loaded terminals	for conductor cross-section 1.5 mm ² : 16 A for conductor cross-section 2.5 mm ² : 20 A for conductor cross-section 4 mm ² : 25 A for conductor cross-section 6 mm ² : 35 A

Ambient Conditions

Ambient temperature	-60 °C ... +40 °C (T6) -60 °C ... +55 °C (T5)
Ambient temperature	-76°F ... +104°F (T6) -76°F ... +131°F (T5)

Mechanical Data

IP degree of protection (IEC 60529)	IP66
Enclosure material	Polyester resin, Glass fibre reinforced
Enclosure colour	Dark grey
Flammability according to	IEC/EN 60695 UL 94 ASTM D635
Silicone-free	No
Permissible number of conductors per clamping unit, solid	mantle terminal M8.5 x 1 conductor cross-section 1.5 mm ² : number of conductors min. 2, max. 7 conductor cross-section 2.5 mm ² : number of conductors min. 2, max. 5 conductor cross-section 4 mm ² : number of conductors min. 2, max. 3 conductor cross-section 6 mm ² : number of conductors min. 2, max. 2
Permissible number of conductors per clamping unit, finely stranded prepared, core end sleeve crimped	mantle terminal M8.5 x 1 conductor cross-section 1.5 mm ² : number of conductors min. 2, max. 5 conductor cross-section 2.5 mm ² : number of conductors min. 2, max. 3 conductor cross-section 4 mm ² : number of conductors min. 2, max. 5
Permissible number of conductors per clamping unit, finely stranded unprepared	mantle terminal M8.5 x 1 conductor cross-section 1.5 mm ² : number of conductors min. 2, max. 5 conductor cross-section 2.5 mm ² : number of conductors min. 2, max. 3 conductor cross-section 4 mm ² : number of conductors min. 2, max. 5
Permissible number of conductors per clamping unit note	All conductors of a terminal must have identical cross sections and identical material.
Cover	Screw-on cover
Cover fixing type	M4 stainless steel screws, With captive screws
Width	115 mm
Width, inches	4.53 in
Height	115 mm
Height, inches	4.53 in
Depth	64 mm
Depth, inches	2.52 in
Packaging unit	1
Weight	0.57 kg
Weight	1.26 lb

Mounting / Installation

Tightening torque of cover screw 1	1.4 Nm
------------------------------------	--------

8118/121-805 Art. No. 133114

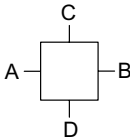
Mounting / Installation

Cover screw 1 tightening torque lbf in	12.4 lbf in
--	-------------

Components

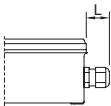
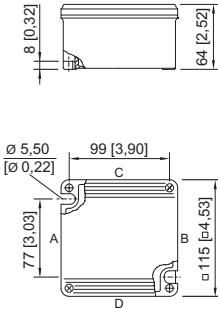
Entry 1	3 x 8161/7-M25-1707-LT (Provided separately)
Entry 1 type	Polyamide cable gland, black
Entry 1	M25 x 1.5
Entry 1 terminal area	7 – 17 mm
Entry 1 clamping range, inch	0.28 – 0.67 in
Metal entry possible 1	No
Entry 2	1 x 8290/3-M25 (Provided separately)
Entry 2 type	Polyamide stopping plug
Entry 2	M25 x 1.5
Metal entry possible 2	No
Entries installation options/side	Size 2: 4x M25 (A+B+C+D)
Type of terminals 1	8 x Mantle terminal 6 mm²

Technical Drawings – Subject to Alterations



"—" = marking installation possibilities

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



Length L
protrusion length for cable glands, Series 8161
in case of M20: 25 ... 31 [0.98 ... 1.22]
in case of M25: 27 ... 33 [1.06 ... 1.3]
in case of M32: 32 ... 39 [1.26 ... 1.54]
protrusion length for cable glands with strain relief,
Series HSK-K-MZ
in case of M25: 41 [1,61]

8118/2.
enclosure size 2

Accessories

Angle	Art. No.	
	Angle 8118 size 2, for junction boxes 4 x M20	209556
	Angle 8118 size 2, for junction boxes 4 x M25	202959

8118/121-805 Art. No. 133114

Cable gland made of plastic

Art. No.



8161/7-M25-1710-LT, Ex e
Plastic, M25 x 1.5, cable outer diameter 10 to 17 mm
Lot size 50 pieces

239205

Stopping plug

Art. No.

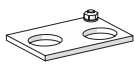


8290/3-M25
Plastic, M25 x 1.5
Lot size 100 pieces

285774

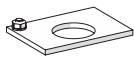
Brass plate with thread

Art. No.



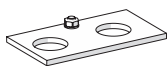
8118 size 2, plate 56 x 40 mm [2.2 x 1.57"]
2 x M20 x 1.5 with M4 PE connection (right)
for installation in enclosure size 2 and size 3

244072



8118 size 2, plate 56 x 40 mm [2.2 x 1.57"]
1 x M25 x 1.5 with M4 PE connection (left)
for installation in enclosure size 2 and size 3

211341

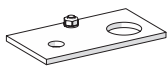


8118 size 3, plate 74 x 40 mm [2.91 x 1.57"]
2 x M20 x 1.5 with M4 PE connection (centre)
for installation in enclosure size 2 and size 3

168915

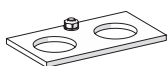
8118 size 3/B, plate 74 x 40 mm [2.91 x 1.57"]
2 x M20 x 1.5 with M4 PE connection (centre)
for installation in enclosure size 2 and size 3

244075



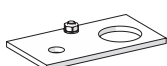
8118 size 3, plate 74 x 40 mm [2.91 x 1.57"]
1 x M20 x 1.5 + 1 x M10 with M4 PE connection (centre)
for installation in enclosure size 2 and size 3

211342



8118 size 3, plate 74 x 40 mm [2.91 x 1.57"]
2 x M25 x 1.5 with M4 PE connection (centre)
for installation in enclosure size 2 and size 3

168916



8118 size 3, plate 74 x 40 mm [2.91 x 1.57"]
1 x M25 x 1.5 + 1 x M10 with M4 PE connection (centre)
for installation in enclosure size 2 and size 3

211343

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.