Durability for maximum requirements

Klippon® Protect sets the highest standards with stainless steel enclosures

The enclosure ranges Klippon® TB and Klippon® STB are offered in stainless steel and boost market leading performance characteristics, which even allow them to meet the demanding requirements for use with the harshest environments. The enclosures are certified and comply with the latest international standards – including ATEX and IECEx.

Additional features:

- Standard silicone seals for use in extreme temperature environments
- High Ingress Performace - IP66
- Welded-on mounting feet for wall mounting

Technical data	Stainless steel
Material	Stainless steel 1.4404 (316L) 1.50 mm
Surface finish	Mirror-polished
Colour	Natural
IP protection class	IP 54; IP 66
Ambient temperature	-55 °C to 55 °C
Seal material of enclosure	Silicone
Seal material of command and signalling units	EPDM
Flammability rating	-
Impact resistance IK	7 joules in acc. with IEC60079-0 4 joules in acc. with IEC60079-0 with integrated illuminated pushbutton or light module
Cable gland material	Nickel-plated brass
Cable gland clamping area min. – max. in mm	
M20	3–12 mm
M25	10–18 mm
Max. rated cross-section	2.5 mm²
Max. operating voltage	400 V
with integrated illuminated pushbutton or light module	250 V
Maximum operating current at 40 °C ambient temperature	
1.5 mm² – T6	10 A
1.5 mm² – T5	16 A
2.5 mm² – T6	16 A
Maximum operating current at 55 °C ambient temperature	
1.5 mm² – T4	16 A
1.5 mm² – T5	10 A
2.5 mm² – T5	16 A
Temperature class	T4, T5, T6
Type of mounting	Wall mounting
Earthing inside	M6x10 earthing studs integrated in the cover, stainless steel
Lid attachment	Hexagonal slothead screws SW10
Lid screw torque	2.5 Nm
Earthing torque	7.5 Nm
Earthing outside	M6 earthing studs, stainless steel
Approvals	IECEXITA14.0013X TUEV14ATEX7606X MARITREG 15.40082.250
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db
Mounting feet	2 welded-on mounting feet with 8 mm holes

Number of built-in components				Emergency stop pushbutton	Key switch	Pushbutton		Illuminated push button		Light module		Dimensions with built-in components WxHxD in mm	Designation	Cable gland	Order number	
	●	●●	●●●	red	I – 0 – II	red	green	red	green	red	green					
Stainless steel	●			1								120x150x119	KLIPPON CS STB 1-1	VG M20	**1537200000**	
	●						1					120x150x94.6	KLIPPON CS STB 1-1	VG M20	**1537210000**	
	●				1							120x120x111	KLIPPON CS STB 1-1	VG M20	**1537220000**	
	●								1			120x150x96.3	KLIPPON CS STB 1-1	VG M20	**1537230000**	
	●			1								120x153.35x118.95	KLIPPON CS STB 1-2	VG M25	**1537240000**	
	●						1					120x153.4x94.6	KLIPPON CS STB 1-2	VG M25	**1537250000**	
	●				1							120x120x111	KLIPPON CS STB 1-2	VG M25	**1537280000**	
	●								1			120x153.35x96.3	KLIPPON CS STB 1-2	VG M25	**1537290000**	
		●				1	1					150x223.35x94.6	KLIPPON CS STB 2.1-2	VG M25	**1537300000**	
		●					1				1	150x223.35x103.2	KLIPPON CS STB 2.1-2	VG M25	**1537310000**	
		●		1						1		150x223.35x118.95	KLIPPON CS STB 2.1-2	VG M25	**1537320000**	
			●			1	2					150x223.35x94.6	KLIPPON CS STB 2.1-6	VG M25	**1537330000**	
			●			1	1		1			150x223.35x103.2	KLIPPON CS STB 2.1-7	VG M25	**1537340000**	
			●	1		1	1					150x220x118.95	KLIPPON CS STB 2.1-7	VG M20	**1537370000**	

Technical data

	Klippon® CS STB 1-1	Klippon® CS STB 1-1
Enclosure		
Dimensions with installation (HxBxD)	150 / 120 / 119 mm	150 / 120 / 95 mm
Material	Stainless steel 1.4404 (316L)	Stainless steel 1.4404 (316L)
General characteristics		
Surface finish / Colour	Mirror polished / Natural	Mirror polished / Natural
Protection class	IP54, IP66	IP54, IP66
Ambient temperature	-55 °C...+55 °C	-55 °C...+55 °C
Impact resistance	7 joules in acc. with IEC60079-0	7 joules in acc. with IEC60079-0
Enclosure seal material	Silicone (VMQ)	Silicone (VMQ)
Seal material of operating and display elements	EPDM	EPDM
Type of mounting	Wall mounting	Wall mounting
Internal earth	M6 x 10 earthing studs integrated in the lid, stainless steel	M6 x 10 earthing studs integrated in the lid, stainless steel
External earth	M6 earthing studs, stainless steel	M6 earthing studs, stainless steel
Lid attachment	M5 hexagonal screw with slot and 10mm distance across flats	M5 hexagonal screw with slot and 10mm distance across flats
Torque for lid screws	2.5 Nm	2.5 Nm
Earth stud torque	7.5 Nm	7.5 Nm
Electrical properties*		
Wire connection cross section, finely stranded, max.	2.5 mm²	2.5 mm²
Operating voltage, max.	400 V	400 V
Temperature class	T4, T5, T6	T4, T5, T6
Enclosure assembly		
1 Position in enclosure	EMERGENCY-STOP pushbutton with yellow, contrasting label	Pushbutton - green
2 Position in enclosure		
3 Position in enclosure		
4 Position in enclosure		
Contact design	2 NC contact, positive opening contacts	1 NC contact, 1 NO contacts
Actuators	EMERGENCY STOP pushbutton	Pushbutton
Actuator colour	red	green
Illumination module colour		
Illuminated button actuator colour		
Cable entries		
Drill holes side B	1 x M20	1 x M20
Cable gland	1460050000 - VG M20 EXE MS	1460050000 - VG M20 EXE MS
Clamping range min. / max.	3 mm / 12 mm	3 mm / 12 mm
Approval and Marking		
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31	IEC 60079-0, IEC 60079-7, IEC 60079-31
Certificate No. (IECEX)	IECEXITA14.0013X	IECEXITA14.0013X
Certificate No. (ATEX)	TUEV14ATEX7606X	TUEV14ATEX7606X
Certificate No. (EAC)	RUC-DE.TB08.B.01838	RUC-DE.TB08.B.01838
Certificate No. (MARITREG)	15.40082.250	15.40082.250
Marking	2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db	2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db
Note		

Ordering data

Type	Qty.	Order No.
KLIPPON CS STB 1-1	1	1537200000

Type	Qty.	Order No.
KLIPPON CS STB 1-1	1	1537210000

Note		
	*Other temperature classes and connection values on request, or see "Notice to Installer".	*Other temperature classes and connection values on request, or see "Notice to Installer".

Klippon® CS STB 1-1

150 / 120 / 109 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP65
-55 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm²
400 V
T4, T5, T6
Key-operated switch
1 NC contact, 1 NO contacts
Key-operated switch, 3 switching positions, I - 0 - II, (I + II), latching, Key retractable
1 x M20
1460050000 - VG M20 EXE MS
3 mm / 12 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.TB08.B.01838
15.40082.250
2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db

Type	Qty.	Order No.
KLIPPON CS STB 1-1	1	1537220000

*Other temperature classes and connection values on request, or see "Notice to Installer".

Klippon® CS STB 1-1

150 / 120 / 96 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C...+55 °C
4 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm²
250 V
T4, T5, T6
Illuminated pushbutton - green
2 NO contacts
Pushbutton
green
green
1 x M20
1460050000 - VG M20 EXE MS
3 mm / 12 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.TB08.B.01838
15.40082.250
2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db

Type	Qty.	Order No.
KLIPPON CS STB 1-1	1	1537230000

*Other temperature classes and connection values on request, or see "Notice to Installer".

Klippon® CS STB 1-2

153 / 120 / 119 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm²
400 V
T4, T5, T6
EMERGENCY-STOP pushbutton with yellow, contrasting label
2 NC contact, positive opening contacts
EMERGENCY STOP pushbutton
red
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.TB08.B.01838
15.40082.250
2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db

Type	Qty.	Order No.
KLIPPON CS STB 1-2	1	1537240000

*Other temperature classes and connection values on request, or see "Notice to Installer".

Technical data

	Klippon® CS STB 1-2	Klippon® CS STB 1-2
Enclosure		
Dimensions with installation (HxBxD)	153 / 120 / 95 mm	153 / 120 / 109 mm
Material	Stainless steel 1.4404 (316L)	Stainless steel 1.4404 (316L)
General characteristics		
Surface finish / Colour	Mirror polished / Natural	Mirror polished / Natural
Protection class	IP54, IP66	IP54, IP65
Ambient temperature	-55 °C...+55 °C	-55 °C...+55 °C
Impact resistance	7 joules in acc. with IEC60079-0	7 joules in acc. with IEC60079-0
Enclosure seal material	Silicone (VMQ)	Silicone (VMQ)
Seal material of operating and display elements	EPDM	EPDM
Type of mounting	Wall mounting	Wall mounting
Internal earth	M6 x 10 earthing studs integrated in the lid, stainless steel	M6 x 10 earthing studs integrated in the lid, stainless steel
External earth	M6 earthing studs, stainless steel	M6 earthing studs, stainless steel
Lid attachment	M5 hexagonal screw with slot and 10mm distance across flats	M5 hexagonal screw with slot and 10mm distance across flats
Torque for lid screws	2.5 Nm	2.5 Nm
Earth stud torque	7.5 Nm	7.5 Nm
Electrical properties*		
Wire connection cross section, finely stranded, max.	2.5 mm²	2.5 mm²
Operating voltage, max.	400 V	400 V
Temperature class	T4, T5, T6	T4, T5, T6
Enclosure assembly		
1 Position in enclosure	Pushbutton - green	Key-operated switch
2 Position in enclosure		
3 Position in enclosure		
4 Position in enclosure		
Contact design	1 NC contact, 1 NO contacts	1 NC contact, 1 NO contacts
Actuators	Pushbutton	Key-operated switch, 3 switching positions, I - 0 - II, (I + II), latching, Key retractable
Actuator colour	green	
Illumination module colour		
Illuminated button actuator colour		
Cable entries		
Drill holes side B	1 x M25	1 x M25
Cable gland	1460070000 - VG M25 EXE MS	1460070000 - VG M25 EXE MS
Clamping range min. / max.	10 mm / 18 mm	10 mm / 18 mm
Approval and Marking		
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31	IEC 60079-0, IEC 60079-7, IEC 60079-31
Certificate No. (IECEX)	IECEXITA14.0013X	IECEXITA14.0013X
Certificate No. (ATEX)	TUEV14ATEX7606X	TUEV14ATEX7606X
Certificate No. (EAC)	RUC-DE.TB08.B.01838	RUC-DE.TB08.B.01838
Certificate No. (MARITREG)	15.40082.250	15.40082.250
Marking	2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db	2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db
Note		

Ordering data

Type	Qty.	Order No.
KLIPPON CS STB 1-2	1	**1537250000**

Type	Qty.	Order No.
KLIPPON CS STB 1-2	1	**1537280000**

Note		
	*Other temperature classes and connection values on request, or see "Notice to Installer".	*Other temperature classes and connection values on request, or see "Notice to Installer".

Klippon® CS STB 1-2

153 / 120 / 96 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C...+55 °C
4 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm²
250 V
T4, T5, T6
Illuminated pushbutton - green
2 NO contacts
Pushbutton
green
green
1 x M25
1460070000 - VG M25 EXE MS
3 mm / 12 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.TB08.B.01838
15.40082.250
2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db

Type	Qty.	Order No.
KLIPPON CS STB 1-2	1	1537290000

*Other temperature classes and connection values on request, or see "Notice to Installer".

Klippon® CS STB 2.1-2

223 / 150 / 95 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm²
400 V
T4, T5, T6
Pushbutton - red
Pushbutton - green
2 NC contact, 2 NO contacts
Pushbutton
red, green
green
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.TB08.B.01838
15.40082.250
2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db

Type	Qty.	Order No.
KLIPPON CS STB 2.1-2	1	1537300000

*Other temperature classes and connection values on request, or see "Notice to Installer".

Klippon® CS STB 2.1-2

223 / 150 / 103 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C...+55 °C
4 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm²
250 V
T4, T5, T6
Light module - green
Pushbutton - green
1 NC contact, 1 NO contacts
Pushbutton
green
green
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.TB08.B.01838
15.40082.250
2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db

Type	Qty.	Order No.
KLIPPON CS STB 2.1-2	1	1537310000

*Other temperature classes and connection values on request, or see "Notice to Installer".

Klippon® Control Station – STB - Steel enclosures

Technical data

	Klippon® CS STB 2.1-2	Klippon® CS STB 2.1-6
Enclosure		
Dimensions with installation (HxBxD)	223 / 150 / 119 mm	223 / 150 / 95 mm
Material	Stainless steel 1.4404 (316L)	Stainless steel 1.4404 (316L)
General characteristics		
Surface finish / Colour	Mirror polished / Natural	Mirror polished / Natural
Protection class	IP54, IP66	IP54, IP66
Ambient temperature	-55 °C...+55 °C	-55 °C...+55 °C
Impact resistance	4 joules in acc. with IEC60079-0	7 joules in acc. with IEC60079-0
Enclosure seal material	Silicone (VMQ)	Silicone (VMQ)
Seal material of operating and display elements	EPDM	EPDM
Type of mounting	Wall mounting	Wall mounting
Internal earth	M6 x 10 earthing studs integrated in the lid, stainless steel	M6 x 10 earthing studs integrated in the lid, stainless steel
External earth	M6 earthing studs, stainless steel	M6 earthing studs, stainless steel
Lid attachment	M5 hexagonal screw with slot and 10mm distance across flats	M5 hexagonal screw with slot and 10mm distance across flats
Torque for lid screws	2.5 Nm	2.5 Nm
Earth stud torque	7.5 Nm	7.5 Nm
Electrical properties*		
Wire connection cross section, finely stranded, max.	2.5 mm²	2.5 mm²
Operating voltage, max.	250 V	400 V
Temperature class	T4, T5, T6	T4, T5, T6
Enclosure assembly		
1 Position in enclosure	Light module - red	Pushbutton - green
2 Position in enclosure	EMERGENCY-STOP pushbutton with yellow, contrasting label	Pushbutton - red
3 Position in enclosure		Pushbutton - green
4 Position in enclosure		
Contact design	2 NC contact, positive opening contacts	3 NC contact, 3 NO contacts
Actuators	EMERGENCY STOP pushbutton	Pushbutton
Actuator colour	red	green, red
Illumination module colour		
Illuminated button actuator colour		
Cable entries		
Drill holes side B	1 x M25	1 x M25
Cable gland	1460070000 - VG M25 EXE MS	1460070000 - VG M25 EXE MS
Clamping range min. / max.	10 mm / 18 mm	10 mm / 18 mm
Approval and Marking		
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31	IEC 60079-0, IEC 60079-7, IEC 60079-31
Certificate No. (IECEX)	IECEXITA14.0013X	IECEXITA14.0013X
Certificate No. (ATEX)	TUEV14ATEX7606X	TUEV14ATEX7606X
Certificate No. (EAC)	RUC-DE.TB08.B.01838	RUC-DE.TB08.B.01838
Certificate No. (MARITREG)	15.40082.250	15.40082.250
Marking	2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db	2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db
Note		

Ordering data

Type	Qty.	Order No.
KLIPPON CS STB 2.1-2	1	**1537320000**

Type	Qty.	Order No.
KLIPPON CS STB 2.1-6	1	**1537330000**

Note		
	*Other temperature classes and connection values on request, or see "Notice to Installer".	*Other temperature classes and connection values on request, or see "Notice to Installer".

Klippon® CS STB 2.1-7

223 / 150 / 103 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C...+55 °C
4 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm²
250 V
T4, T5, T6
Pushbutton - red
Light module - green
Pushbutton - green
2 NC contact, 2 NO contacts
Pushbutton
red, green
green
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.TB08.B.01838
15.40082.250
2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db

Type	Qty.	Order No.
KLIPPON CS STB 2.1-7	1	**1537340000**

*Other temperature classes and connection values on request, or see "Notice to Installer".

Klippon® CS STB 2.1-7

220 / 150 / 119 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm²
400 V
T4, T5, T6
Pushbutton - green
Pushbutton - red
EMERGENCY-STOP pushbutton with yellow, contrasting label
2 NO contacts, 2 NC contact, positive opening contacts
Pushbutton, EMERGENCY STOP pushbutton
green, red
2 x M20
1460050000 - VG M20 EXE MS
3 mm / 12 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.TB08.B.01838
15.40082.250
2G Ex d e IIC T* Gb 2G Ex d ib [ia] IIC T* Gb 2D Ex tb IIIC T80/100 °C Db

Type	Qty.	Order No.
KLIPPON CS STB 2.1-7	1	**1537370000**

*Other temperature classes and connection values on request, or see "Notice to Installer".