Reliable stability for all applications

Klippon® Protect – convincing with impact-resistant aluminium enclosures

Aluminium enclosures (Klippon® K) can be used with a wide range of applications and are ideally suited for the assembly of terminal blocks, switches, power supplies, operating and display elements or electronic modules. Available in aluminium alloy and powder coated RAL 7001. The mounting holes are located outside the sealing area, while a corresponding thread enables mounting rails and mounting plates to be affixed.

Additional features:

- Standardised enclosure with integrated threaded holes
- Cover attachment with corrosion-resistant Torx slothead screws
- Fastening by means of mounting feet or internal mounting holes
- Splice-free seals for optimum ingress protection up to IP 66

Technical data	Aluminium
Material	Aluminium alloy (AL-Si12)
Surface finish	Powder-coated
Colour	RAL 7001
IP protection class	IP 54; IP 66
Ambient temperature	-55 °C to 55 °C
Seal material of enclosure	Silicone (VMQ)
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	Earth terminal
Lid attachment	Torx® 20 slothead screws
Lid screw torque	2.5 Nm
Earthing torque	2.5 Nm
Earthing outside	M4 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	9527590000

	Number of built-in components				Emergency stop pushbutton	Key switch	Pushbutton		Illuminated pushbutton		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					
Aluminium	●				1								120x148.81x118.45	KLIPPON CS K41-1	VG M20	**1537470000**	
	●						1						120x148.81x94.1	KLIPPON CS K41-1	VG M20	**1537480000**	
	●					1							120x122x117	KLIPPON CS K41-1	VG M20	**1537490000**	
	●									1			120x148.81x95.8	KLIPPON CS K41-1	VG M20	**1537500000**	
		●					1	1					120x152.21x94.1	KLIPPON CS K41-4	VG M25	**1537510000**	
		●						1				1	120x152.21x102.7	KLIPPON CS K41-4	VG M25	**1537520000**	
		●			1						1		120x152.21x118.45	KLIPPON CS K41-4	VG M25	**1537530000**	
			●				1	1			1		120x250.21x102.7	KLIPPON CS K51-2	VG M25	**1537540000**	
			●				1	2					120x250.21x94.1	KLIPPON CS K51-2	VG M25	**1537550000**	
			●		1		1	1					120x250.21x118.45	KLIPPON CS K51-2	VG M25	**1537570000**	
				●			1	1			1	1	120x250.21x102.7	KLIPPON CS K51-4	VG M25	**1537580000**	

Technical data

	Klippon® CS K41-1	Klippon® CS K41-1
Enclosure		
Dimensions with installation (HxBxD)	149 / 120 / 119 mm	149 / 120 / 94 mm
Material	Aluminium AlSi12	Aluminium AlSi12
General characteristics		
Surface finish / Colour	Powder-coated / Silver grey	Powder-coated / Silver grey
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	Earth terminal	Earth terminal
External earth	M4 earthing studs, stainless steel	M4 earthing studs, stainless steel
Lid attachment	Torx®-20 slothead screws	Torx®-20 slothead screws
Torque for lid screws	2.5 Nm	2.5 Nm
Earth stud torque	2.5 Nm	2.5 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
Accessories		
Mounting feet	9527590000 - KLIPPON K MF KIT 25	9527590000 - KLIPPON K MF KIT 25
Note		

Ordering data

Type	Qty.	Order No.
KLIPPON CS K41-1	1	1537470000

Type	Qty.	Order No.
KLIPPON CS K41-1	1	1537480000

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 K41-1

149 / 120 / 108 mm
Aluminium AlSi12
Powder-coated / Silver grey
IP54, IP65
-55 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
Earth terminal
M4 earthing studs, stainless steel
Torx®-20 slothead screws
2.5 Nm
2.5 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
9527590000 - KLIPPON K MF KIT 25

Type	Qty.	Order No.
KLIPPON CS K41-1	1	**1537490000**

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

Klippon® CS K41-1

149 / 120 / 96 mm
Aluminium AlSi12
Powder-coated / Silver grey
IP54, IP66
-55 °C...+55 °C
4 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
Earth terminal
M4 earthing studs, stainless steel
Torx®-20 slothead screws
2.5 Nm
2.5 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
9527590000 - KLIPPON K MF KIT 25

Type	Qty.	Order No.
KLIPPON CS K41-1	1	**1537500000**

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

Klippon® CS K41-4

152 / 120 / 119 mm
Aluminium AlSi12
Powder-coated / Silver grey
IP54, IP66
-55 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
Earth terminal
M4 earthing studs, stainless steel
Torx®-20 slothead screws
2.5 Nm
2.5 Nm
2.5 mm²
400 V
T4, T5, T6
Pushbutton - red
Pushbutton - green
2 NC contact, 2 NO contacts
Pushbutton
red, 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
9527590000 - KLIPPON K MF KIT 25

Type	Qty.	Order No.
KLIPPON CS K41-4	1	**1537510000**

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

Technical data

	Klippon® CS K41-4	Klippon® CS K41-4
Enclosure		
Dimensions with installation (HxBxD)	152 / 120 / 103 mm	152 / 120 / 119 mm
Material	Aluminium AlSi12	Aluminium AlSi12
General characteristics		
Surface finish / Colour	Powder-coated / Silver grey	Powder-coated / Silver grey
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	4 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	Earth terminal	Earth terminal
External earth	M4 earthing studs, stainless steel	M4 earthing studs, stainless steel
Lid attachment	Torx®-20 slothead screws	Torx®-20 slothead screws
Torque for lid screws	2.5 Nm	2.5 Nm
Earth stud torque	2.5 Nm	2.5 Nm
Electrical properties*		
Wire connection cross section, finely stranded, max.	2.5 mm²	2.5 mm²
Operating voltage, max.	250 V	250 V
Temperature class	T4, T5, T6	T4, T5, T6
Enclosure assembly		
1 Position in enclosure	Light module - green	Light module - red
2 Position in enclosure	Pushbutton - green	EMERGENCY-STOP pushbutton with yellow, contrasting label
3 Position in enclosure		
4 Position in enclosure		
Contact design	1 NC contact, 1 NO contacts	2 NC contact, positive opening contacts
Actuators	Pushbutton	EMERGENCY STOP pushbutton
Actuator colour	green	red
Illumination module colour	green	
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
Accessories		
Mounting feet	9527590000 - KLIPPON K MF KIT 25	9527590000 - KLIPPON K MF KIT 25
Note		

Ordering data

Type	Qty.	Order No.
KLIPPON CS K41-4	1	1537520000

Type	Qty.	Order No.
KLIPPON CS K41-4	1	1537530000

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 K51-2

250 / 120 / 103 mm	
Aluminium AlSi12	
Powder-coated / Silver grey	
IP54, IP66	
-55 °C...+55 °C	
4 joules in acc. with IEC60079-0	
Silicone (VMQ)	
EPDM	
Wall mounting	
Earth terminal	
M4 earthing studs, stainless steel	
Torx®-20 slothead screws	
2.5 Nm	
2.5 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	
9527590000 - KLIPPON K MF KIT 25	

Type	Qty.	Order No.
KLIPPON CS K51-2	1	**1537540000**

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

Klippon® CS K51-2

250 / 120 / 94 mm	
Aluminium AlSi12	
Powder-coated / Silver grey	
IP54, IP66	
-55 °C...+55 °C	
7 joules in acc. with IEC60079-0	
Silicone (VMQ)	
EPDM	
Wall mounting	
Earth terminal	
M4 earthing studs, stainless steel	
Torx®-20 slothead screws	
2.5 Nm	
2.5 Nm	
2.5 mm²	
400 V	
T4, T5, T6	
Pushbutton - green	
Pushbutton - red	
Pushbutton - green	
3 NC contact, 3 NO contacts	
Pushbutton	
green, 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	
9527590000 - KLIPPON K MF KIT 25	

Type	Qty.	Order No.
KLIPPON CS K51-2	1	**1537550000**

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

Klippon® CS K51-2

250 / 120 / 119 mm	
Aluminium AlSi12	
Powder-coated / Silver grey	
IP54, IP66	
-55 °C...+55 °C	
7 joules in acc. with IEC60079-0	
Silicone (VMQ)	
EPDM	
Wall mounting	
Earth terminal	
M4 earthing studs, stainless steel	
Torx®-20 slothead screws	
2.5 Nm	
2.5 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	
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	
9527590000 - KLIPPON K MF KIT 25	

Type	Qty.	Order No.
KLIPPON CS K51-2	1	**1537570000**

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

Klippon® CS K51-4

Technical data

Enclosure	
Dimensions with installation (HxBxD)	250 / 120 / 103 mm
Material	Aluminium AlSi12
General characteristics	
Surface finish / Colour	Powder-coated / Silver grey
Protection class	IP54, IP66
Ambient temperature	-55 °C...+55 °C
Impact resistance	4 joules in acc. with IEC60079-0
Enclosure seal material	Silicone (VMQ)
Seal material of operating and display elements	EPDM
Type of mounting	Wall mounting
Internal earth	Earth terminal
External earth	M4 earthing studs, stainless steel
Lid attachment	Torx®-20 slothead screws
Torque for lid screws	2.5 Nm
Earth stud torque	2.5 Nm
Electrical properties*	
Wire connection cross section, finely stranded, max.	2.5 mm²
Operating voltage, max.	250 V
Temperature class	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Light module - red
2 Position in enclosure	Pushbutton - red
3 Position in enclosure	Light module - green
4 Position in enclosure	Pushbutton - green
Contact design	2 NC contact, 2 NO contacts
Actuators	Pushbutton
Actuator colour	green, red
Illumination module colour	red, green
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	1460070000 - VG M25 EXE MS
Clamping range min. / max.	10 mm / 18 mm
Approval and Marking	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Certificate No. (IECEX)	IECEXITA14.0013X
Certificate No. (ATEX)	TUEV14ATEX7606X
Certificate No. (EAC)	RUC-DE.TB08.B.01838
Certificate No. (MARITREG)	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
Accessories	
Mounting feet	9527590000 - KLIPPON K MF KIT 25

Note	

Ordering data

Type	Qty.	Order No.
KLIPPON CS K51-4	1	**1537580000**

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