



The All-In-One Cabinet Solution for your BACS® Control Center



BACS® Cabinets

BACS® - Cabinets Datasheet

All-in-One-Cabinet Solution for BACS

Overview: BACS® CONTROL CABINETS: Technical data and dimensions

	BACS® CONTROL CABINET Type 1 Order No. BACS_CC1	
	Controller	1 BACS WEBMANAGER BUDGET
	Power	1 12V Power supply (100 – 240V, 50/60Hz)
	LAN	1 CAT 6 Ethernet socket
	Contacts	1 Alarm contact (potential-free), 230VC / 30VDC / 8A
	Front door	1 POWER LED
	Front door	1 BACS ALARM LED
	Spare parts	6 Spare bus communication cable
	Dimension WHD	400 x 500 x 210 mm = 15,75 x 19,69 x 8,27 in.
	weight kg	16,10
	BACS® CONTROL CABINET Type 2 Order No. BACS_CC2	
	Controller	2 BACS WEBMANAGER BUDGET
	Power	2 12V Power supply (100 – 240V, 50/60Hz)
	LAN	2 CAT 6 Ethernet socket
	Contacts	2 Alarm contact (potential-free), 230VC / 30VDC / 8A
	Front door	2 POWER LED
	Front door	2 BACS ALARM LED
	Spare parts	8 spare bus communication cable
	Dimension WHD	500 x 500 x 210 mm = 19,69 x 19,69 x 8,27 in.
	weight kg	20,20
	BACS® CONTROL CABINET Type 3 Order No. BACS_CC3	
	Controller	3 BACS WEBMANAGER BUDGET
	Power	3 12V Power supply (100 – 240V, 50/60Hz)
	LAN	3 CAT 6 Ethernet socket
	Contacts	3 Alarm contact (potential-free), 230VC / 30VDC / 8A
	Front door	3 POWER LED
	Front door	3 BACS ALARM LED
	Spare parts	10 Spare bus communication cable
	Dimension WHD	500 x 500 x 210 mm = 19,69 x 19,69 x 8,27 inch
	weight kg	22,70

Symbol Pictures – End Product May Differ

BACS Plus Size BACS Control Cabinets are also available as:

BACS® CONTROL CABINET Type 4 Order No. BACS_CC4	BACS® CONTROL CABINET Type 5 Order No. BACS_CC5	BACS® CONTROL CABINET Type 6 Order No. BACS_CC6
- 4 * BACS WEBMANAGER BUDGET	- 5 * BACS WEBMANAGER BUDGET	- 6 * BACS WEBMANAGER BUDGET
- 4 * 12V Power 100 – 240V, 50/60Hz	- 5 * 12V Power 100 – 240V, 50/60Hz	- 6 * 12V Power 100 – 240V, 50/60Hz
- 4 * CAT 6 Ethernet socket	- 5 * CAT 6 Ethernet socket	- 6 * CAT 6 Ethernet socket
- 4 * Alarm contact (potential-free) 230VC, 30VDC, 8A	- 5 * Alarm contact (potential-free) 230VC, 30VDC, 8A	- 6 * Alarm contact (potential-free) 230VC, 30VDC, 8A
- 4 * POWER LED, - 4 * BACS ALARM LED	- 5 * POWER LED, - 5 * BACS ALARM LED	- 6 * POWER LED, - 6 * BACS ALARM LED
12 * spare bus communication cable	14 * spare bus communication cable	16 * spare bus communication cable
- Dimension: 600 x 760 x 210 mm 23,62 x 29,92 x 8,27 in, weight: 38,10 kg	- Dimension: 760 x 760 x 210 mm 29,92 x 29,92 x 8,27 in weight: 48,50 kg	- Dimension: 760 x 760 x 210 mm 29,92 x 29,92 x 8,27 in weight: 55,40 kg



BACS® Cabinets

BACS® - Cabinets Datasheet

All-in-One-Cabinet Solution for BACS

Also available: BACS Control Cabinet with a full featured Windows Touch Panel All-In-One Computer*

       			BACS® CONTROL CABINET with PC All Cabinets are also available with a fully featured Touch Panel Computer	
	RAM		1*204-pin SODIMM DDR3L 1333MHz / up to 8GB	
	CPU		Intel Bay Trail J1900 Quad Core 2GHz	
	Touch Panel		15" XGA TFT multi-point capacitive touch screen	
	USB		4* USB Ports and 1 covered USB Service Port	
	COM		6 COMPorts	
	LAN		2 GLAN P	
	Wireless		1 x Mini-PCIe slot, extensible 3G,Wifi wireless card	
	Consumption (max)		38,6 Watt max	
	Input voltage		DC 12V, support reverse polarity protection	
	Graphic Software		VGA/HDMI Windows 10 Professional English Language BACS Tools Software packet pre-installed	
	Operating Condition		-30 ~80°C (-22~176°F)	
	Relative humidity		5~95% (Non condensation)	
	EMC		CD/FCC Class A	
	Notes:		The Operating system is a fully featured Windows 10 operating system and needs additional configuration work. not pre-configured – you need to configure it before first use.	
Heat dissipation (Default CC2 Cabinet)			463 BTU/hr	

How to order your BAC CC with Touch Panel PC:	
1 BACS WEBMANAGER + PC	BACS_CC1_TP
2 BACS WEBMANAGER + PC	BACS_CC2_TP
3 BACS WEBMANAGER + PC	BACS_CC3_TP
4 BACS WEBMANAGER + PC	BACS_CC4_TP
5 BACS WEBMANAGER + PC	BACS_CC5_TP
6 BACS WEBMANAGER + PC	BACS_CC6_TP

*For more information, contact, please contact the GENEREX sales team with sales@generex.de.

- Touch Panel PC
- Control Cabinet
- Used devices
- Power Adapter
- Wiring diagrams



TPC6000-C153-L V1.3

Industrial Panel PC



15" XGA Fanless Industrial Panel PC

Support Intel® Celeron J1900/ J6412/ 4205U

Support Intel® Core™ i3-8145 U / i5-7200U

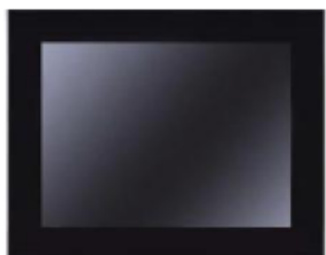


BACS® Cabinets

BACS® - Cabinets Datasheet

All-in-One-Cabinet Solution for BACS

TPC6000-C153-L



Specifications:

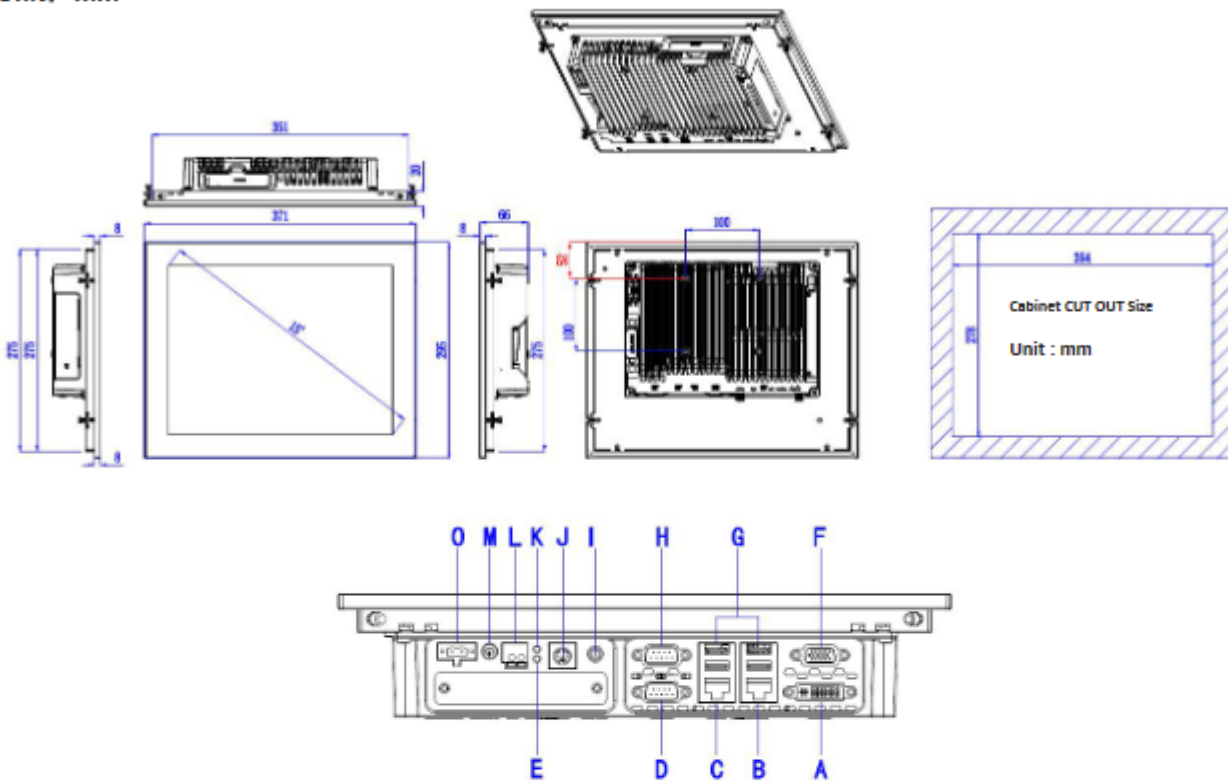


Processor	CPU	J1900	J6412	4205U	i3-8145U	i5-7200U
	Base Frequency	Quad Core 2.0GHz		Dual Core 1.8GHz	Dual Core 2.1 GHz	Dual Core 2.5GHz
	L3 Cache	2MB	1.5MB	2MB	4MB	3MB
	Memory	1*DDR3L-1600, max 8GB / 1*DDR4 2400MHz, max 16GB				
	Storage Medium	1 x 2.5" SATA bay + 1 x mSATA				
I/O	LAN	2 x Intel 1000Mbps RJ-45 Ethernet interface				
	Audio	Optional				
	USB	4 x USB3.0/2.0/1.1				
	COM	2 x RS-232 / RS-485 interface				
	Expansion slot	1 x Mini-pcie slot, expandable 3G, WIFI wireless card, 1 x EasyBUS slot				
	Rear I/O	DVI-I / 2 x GLAN / 4 x USB / 2 x COM / 2 x PS2 / Line-out / Mic-in				
Physical	Dimensions (W x H x D)	371mm x 295mm x 66mm (14.61" x 11.61" x 3.07")				
	Cut Out Size (W x H)	354mm x 278mm (13.94" x 10.94")				
	NW	4.54kg				
OS	OS	Windows 7, Windows 7 Embedded, Windows8, Windows10, Ubuntu, VXWORKS, QNX				
Power	Input voltage	12-24VDC ±10%, support reverse polarity protection, overvoltage protection, overcurrent protection				
	Maximum Power Dissipation	40W				
LCD	LCD Size	15" XGA TFT				
	Resolution	1024 x768				
	Colors	16.7MB				
	Active Area (W×H)	304.13mm×228.10mm (11.97" x8.98")				
	Backlight	LED				
	MTBF	50000hrs				
	Pixel Pitch	0.297 x0.297				
	Luminance	420cd/m2 (2 nd source 350cd/m2)				
	Contrast Ratio	800:1 (2 nd source 1000:1)				
	Viewing Angle	(L) 80/(R)80/ (T) 80/(B)80				
	Type	Multi-point capacitive touch screen				
Touchscreen	Transmittance	> 87%				
	Controller interface	USB				
	Driver Support	Windows XP, Windows 7, Windows 8, Windows 10, Linux				
	Multi-touch	10 points (windows system)				
	Surface Hardness	Mohs' 7H				
	Work Temperature	-20~60°C (-4~140°F)				
Environmental	Storage Temperature	-30~80°C (-22~176°F)				
	Relative humidity	5~95%@40°C(non-condensing)				
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64				
	Shock	Operating 10G peak acceleration (11ms duration), follow IEC 60068-2-27				
	EMC	CE/FCC Class B				
	Front Panel Protection	IP65 compliant				



TPC6000-C153-L

Dimensions:
Unit: mm



A:DVI-D	B:LAN1	C:LAN2	D:COM1
E:Power LED	F: VGA	G:USB	H:COM2
I:Line OUT	J: PS2	K:HDD LED	L:SW
M:Power Switch	O: DC IN 12-24V		

Ordering Information:

Product Code	Description
TPC6000-C153-L-J1900	15"LCD/ Intel J1900 Quad Core 2.0GHz CPU/ No Memory / No Hard /2*RS-232/485(Optional) / 2*LAN /4*USB3.0/ 1024*768/DC12V-24V input
TPC6000-C153-L-WL4205U	15"LCD/Intel 4205U 1.8GHz Dual Core CPU/ No Memory / No Hard /2*RS-232/485(Optional) / 2*LAN /4*USB3.0/ 1024*768/DC12V-24V input
TPC6000-C153-L-WL8145U	15"LCD/ Intel 8145U Dual Core 2.1GHz CPU/ No Memory / No Hard /2*RS-232/485(Optional) / 2*LAN /4*USB3.0/ 1024*768/DC12V-24V input
TPC6000-C153-L-SL7200U	15"LCD/ Intel 7200U Dual Core 2.5GHz CPU/ No Memory / No Hard /2*RS-232/485(Optional) / 2*LAN /4*USB3.0/ 1024*768/DC12V-24V input
TPC6000-C153-L-J6412	15"LCD/Intel J6412 2.0GHz Quad Core CPU/ No Memory / No Hard /2*RS-232/485(Optional) / 2*LAN /4*USB3.0/ 1024*768/DC12V-24V input

Technical details

Contents

Compact enclosures AX, sheet steel

Basic enclosure AX

Model No. AX	Width mm	Height mm	Depth mm	Cam lock	3-point locking system	Page
1031.000	380	300	210	1	–	4 – 5
1033.000	300	300	210	1	–	4 – 5
1034.000	300	400	210	1	–	4 – 5
1037.000	400	800	300	2	–	4 – 5
1038.000	380	600	210	2	–	4 – 5
1039.000	600	380	210	1	–	4 – 5
1045.000	400	500	210	2	–	4 – 5
1050.000	500	500	210	2	–	4 – 5
1054.000	600	600	250	2	–	4 – 5
1055.000	800	600	300	2	–	6 – 7
1057.000	500	700	250	2	–	4 – 5
1058.000	600	800	250	2	–	4 – 5
1059.000	600	800	400	2	–	4 – 5
1060.000	600	600	210	2	–	4 – 5
1073.000	760	760	300	2	–	6 – 7
1076.000	600	760	210	2	–	4 – 5
1077.000	760	760	210	2	–	6 – 7
1090.000	600	1000	250	2	–	4 – 5
1091.000	600	1000	400	2	–	4 – 5
1100.000	1000	760	210	2	–	12 – 13
1110.000	1000	1000	300	2	–	12 – 13
1114.000	1000	1,400	300	–	■	14 – 15
1115.000	1000	1,400	400	–	■	14 – 15
1116.000	1200	1200	400	–	■	14 – 15
1130.000	1000	760	300	2	–	12 – 13
1180.000	800	1000	300	2	–	6 – 7
1181.000	800	1000	400	2	–	6 – 7
1213.000	1000	1200	300	–	■	14 – 15
1214.000	1000	1200	400	–	■	14 – 15
1260.000	600	1200	300	–	■	8 – 9
1261.000	600	1200	400	–	■	8 – 9
1280.000	800	1200	300	–	■	10 – 11
1281.000	800	1200	400	–	■	10 – 11
1338.000	380	600	350	2	–	4 – 5
1339.000	600	380	350	1	–	4 – 5
1350.000	500	500	300	2	–	4 – 5
1360.000	600	600	350	2	–	4 – 5
1376.000	600	760	350	2	–	4 – 5
1380.000	380	380	210	1	–	4 – 5

Wall-mounted enclosure AX IT with 482.6 mm (19") mounting angles

Model No. AX	Width mm	Height mm	Depth mm	Page
7641.350	600	380	350	20
7643.350	600	600	350	20
7645.350	600	760	350	20
7646.400	600	800	400	20

Command panel AX with handle strips

Model No. AX	Width mm	Height mm	Depth mm	Page
6315.150	300	300	210	21
6315.250	380	300	210	21
6315.350	380	380	210	21
6315.450	500	500	210	21
6315.650	600	600	210	21
6320.050	300	200	155	22
6320.350	380	380	210	22
6320.450	500	500	210	22
6320.550	600	380	210	22
6320.650	600	600	210	22

Command panel AX for desktop TFT up to 24"

Model No. AX	Width mm	Height mm	Depth mm	Page
6321.050	650	450	155	23

Compact enclosures AX, stainless steel

Basic enclosure AX

Model No. AX	Width mm	Height mm	Depth mm	Cam lock	3-point locking system	Page
1003.000	300	300	210	1	–	16 – 17
1005.000	300	380	210	1	–	16 – 17
1006.000	380	380	210	1	–	16 – 17
1007.000	500	500	210	2	–	16 – 17
1008.000	380	600	210	2	–	16 – 17
1009.000	600	380	210	1	–	16 – 17
1010.000	600	600	210	2	–	16 – 17
1011.000	380	300	210	1	–	16 – 17
1012.000	600	760	210	2	–	16 – 17
1013.000	500	500	300	2	–	16 – 17

Model No. AX	Width mm	Height mm	Depth mm	Cam lock	3-point locking system	Page
1014.000	760	760	300	2	–	16 – 17
1015.000	400	500	210	2	–	16 – 17
1016.000	800	1000	300	2	–	16 – 17
1017.000	800	1200	300	–	■	18
1018.000	1000	1000	300	2	–	19
1019.000	1000	1200	300	–	■	19
1302.000	300	380	210	1	–	16 – 17
1303.000	380	380	210	1	–	16 – 17
1304.000	600	600	210	2	–	16 – 17
1305.000	1000	1200	300	–	■	18

Compact enclosures



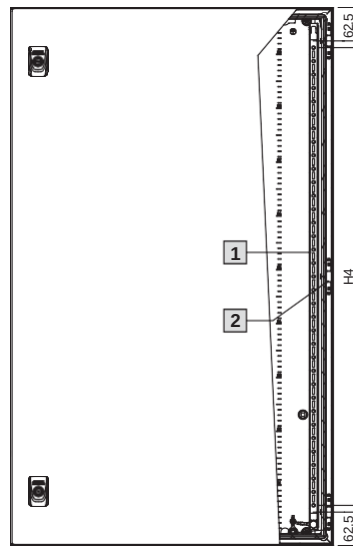
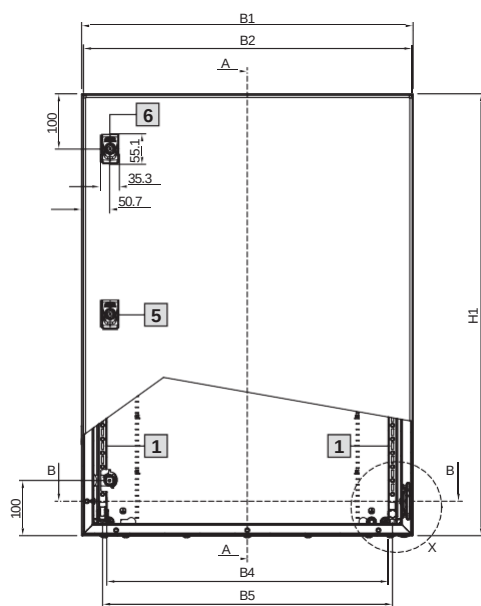
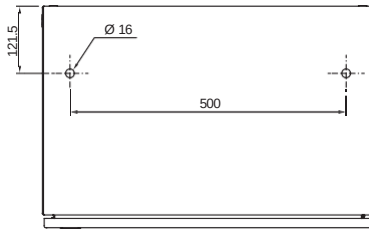
Compact enclosures

Compact enclosures AX, sheet steel

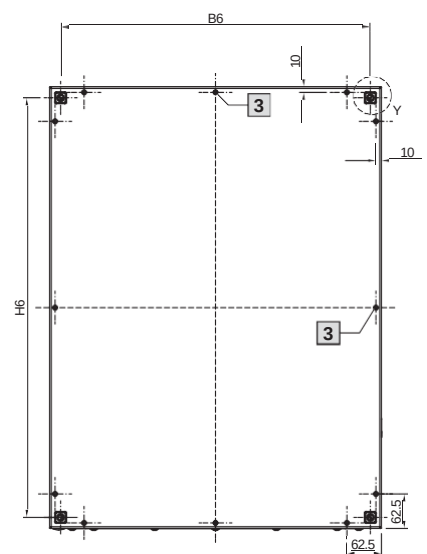
Basic enclosure AX

with cam lock and one gland plate

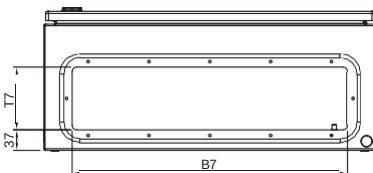
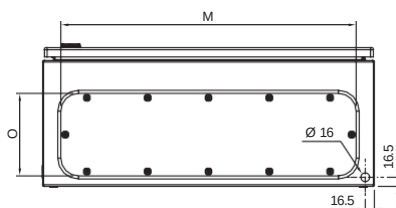
Drilled holes for eyebolts
(only for 1059.000/1091.000)



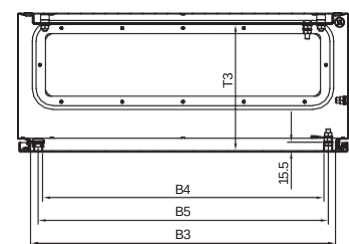
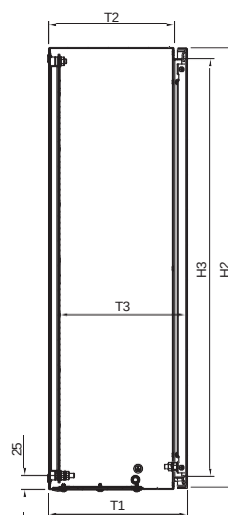
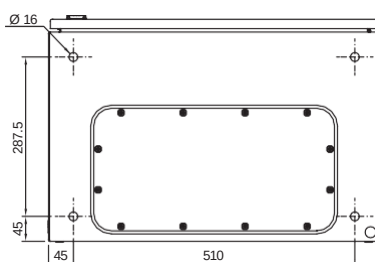
Section A – A



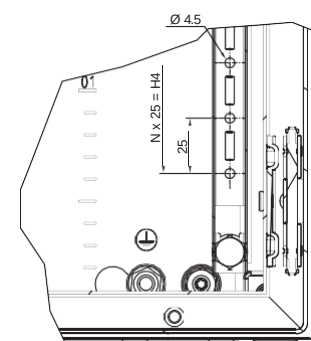
Section B – B



Drilled holes for base/plinth
(only for 1059.000/1091.000)



Detail X



O Door interior view

||:| Central hinge, only where H1 > 800 mm

m Central embossed half-shear,
only where B1/H1 ≥ 500 mm

@ Not applicable to B1 = 300 mm

One central cam where H1 ≤ 400 mm

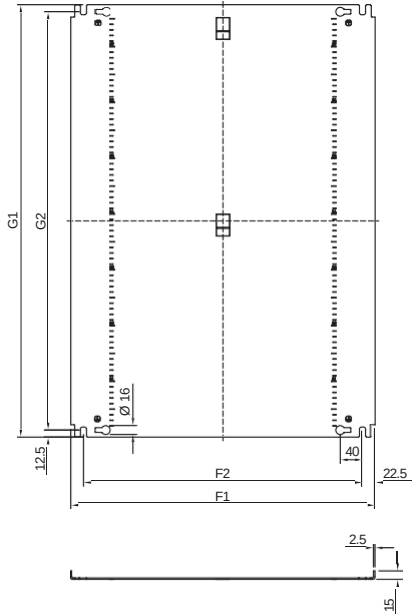
[ID Two cams where H1 > 400 mm

Compact enclosures AX, sheet steel

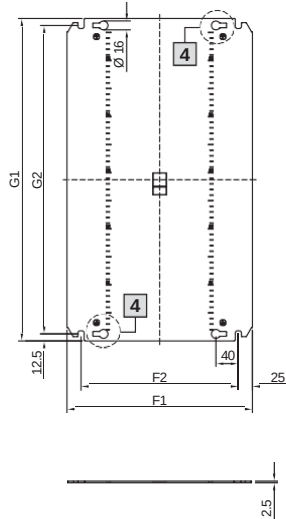
Basic enclosure AX

with cam lock and one gland plate

Mounting plate type 1,
with edge fold



Mounting plate type 2,
without edge fold



Enclosure

B1 = Enclosure width (overall width)

B2 = Door width

B3 = Clearance width, enclosure opening

B4 = Clearance width between door profile strips

B5 = Mounting distance, door profile strips

B6 = Mounting distance, enclosures

B7 = Gland plate opening

H1 = Enclosure height (overall height)

H2 = Door height

H3 = Clearance height, enclosure opening

H4 = Overall height, 25 mm pitch pattern of holes

H6 = Mounting distance, enclosures

N = No. of 25 mm pitch patterns of holes

T1 = Overall depth

T2 = Enclosure depth

T3 = Installation depth (distance from inside of door to mounting plate)

T7 = Gland plate opening

Mounting plate

F1 = Mounting plate width

F2 = Centre-to-centre spacing
of the attachment holes

G1 = Mounting plate height

G2 = Centre-to-centre spacing
of the attachment holes

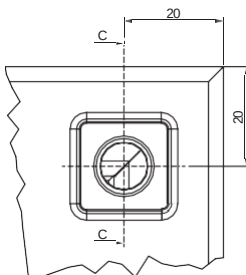
Gland plate

M = Gland plate width

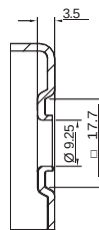
O = Gland plate depth

Type = Size of gland plate

Detail Y



Section C – C



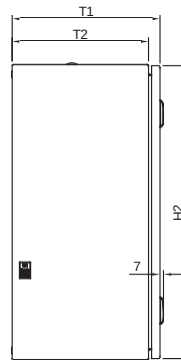
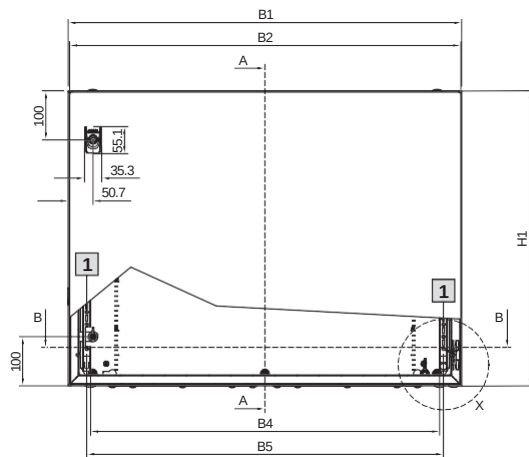
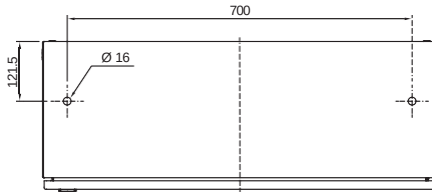
ModelNo. AX	Width dimensions mm							Height dimensions mm							Depth dimensions mm				Mounting plate mm					Gland plate mm		
	B1	B2	B3	B4	B5	B6	B7	H1	H2	H3	H4	H6	N	T1	T2	T3	T7	F1	F2	G1	G2	Type	M	O	Type	
1031.000	380	374	332.7	289.5	305	340	303	300	294	256.5	150	260	6	209.7	187.0	189.0	113	330	280	275	250	2	339	149	2	
1033.000	300	294	252.7	209.5	225	260	220	300	294	256.5	150	260	6	209.7	187.0	189.0	113	250	200	275	250	2	256	149	1	
1034.000	300	294	252.7	209.5	225	260	220	400	394	356.5	250	360	10	209.7	187.0	189.0	113	250	200	375	350	2	256	149	1	
1037.000	400	395	352.2	309.5	325	360	265	800	795	756	650	760	26	300.7	277.5	278.7	185	345	300	775	750	1	301	221	5	
1038.000	380	374	332.7	289.5	305	340	303	600	594	556.5	450	560	18	209.7	187.0	188.5	113	330	280	575	550	2	339	149	2	
1039.000	600	594	552.7	509.5	525	560	498	380	374	336.5	250	340	10	209.7	187.0	188.5	113	550	500	355	330	2	534	149	4	
1045.000	400	394	352.7	309.5	325	360	303	500	494	456.5	350	460	14	209.7	187.0	189.0	113	350	300	475	450	2	339	149	2	
1050.000	500	494	452.7	409.5	425	460	411	500	494	456.5	350	460	14	209.7	187.0	188.5	113	450	400	475	450	2	447	149	3	
1054.000	600	594	552.2	509.5	525	560	498	600	594	556	450	560	18	250.2	227.5	228.7	113	550	500	575	550	2	534	149	4	
1057.000	500	495	452.2	409.5	425	460	411	700	695	656	550	660	22	250.7	227.5	228.7	113	450	400	675	650	2	447	149	3	
1058.000	600	595	552.2	509.5	525	560	498	800	795	756	650	760	26	250.7	227.5	228.7	113	545	500	775	750	1	534	149	4	
1059.000	600	595	552.2	509.5	525	560	400	800	795	756	650	760	26	400.7	377.5	378.7	185	545	500	775	750	1	436	221	7	
1060.000	600	594	552.2	509.5	525	560	498	600	594	556	450	560	18	210.2	187.5	188.7	113	550	500	575	550	2	534	149	4	
1076.000	600	595	552.2	509.5	525	560	498	760	755	716	600	720	24	210.7	187.5	188.7	113	550	500	735	710	2	534	149	4	
1090.000	600	595	552.2	509.5	525	560	498	1000	995	956	850	960	34	250.7	227.5	228.7	113	545	500	975	950	1	534	149	4	
1091.000	600	595	552.2	509.5	525	560	400	1000	995	956	850	960	34	400.7	377.5	378.7	185	545	500	975	950	1	436	221	7	
1338.000	380	374	332.2	289.5	305	340	265	600	594	556.5	450	560	18	350.2	327.5	328.7	185	330	280	575	550	2	301	221	5	
1339.000	600	594	552.2	509.5	525	560	400	380	374	336	250	340	10	350.2	327.5	328.7	185	550	500	355	330	2	436	221	7	
1350.000	500	494	452.2	409.5	425	460	365	500	494	456	350	460	14	300.2	277.5	278.7	185	450	400	475	450	2	401	221	6	
1360.000	600	594	552.2	509.5	525	560	400	600	594	556	450	560	18	350.2	327.5	328.7	185	550	500	575	550	2	436	221	7	
1376.000	600	595	552.2	509.5	525	560	400	760	755	716	600	720	24	350.7	327.5	328.7	185	550	500	735	710	2	436	221	7	
1380.000	380	374	332.7	289.5	305	340	303	380	374	336.5	250	340	10	209.7	187.0	189.0	113	330	280	355	330	2	339	149	2	

Compact enclosures AX, sheet steel

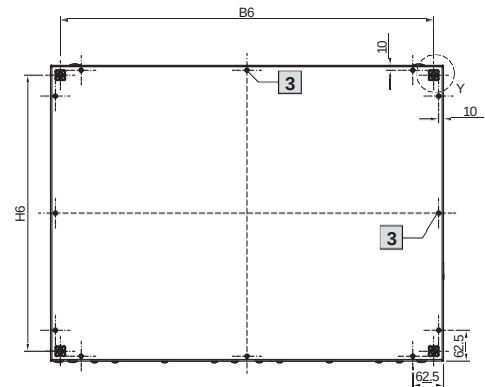
Basic enclosure AX

with cam lock and two gland plates

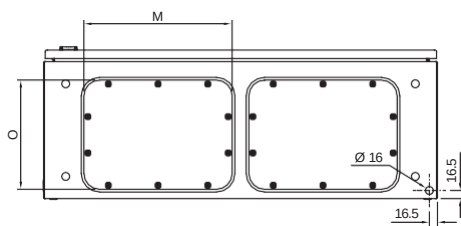
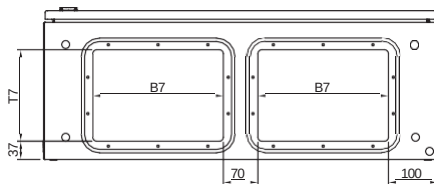
Drilled holes for eyebolts
(only for 1055.000/1180.000/1181.000)



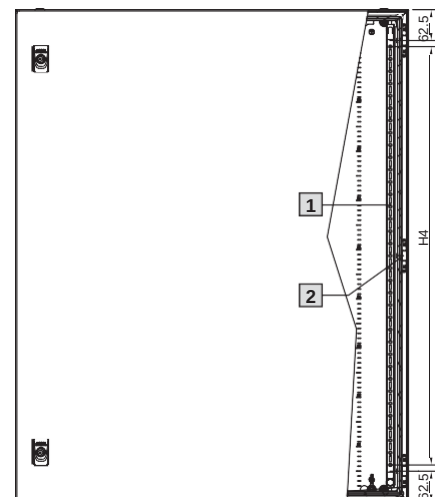
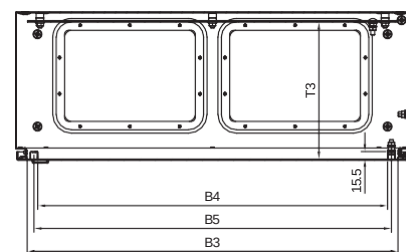
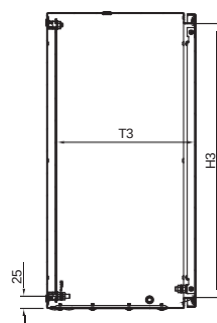
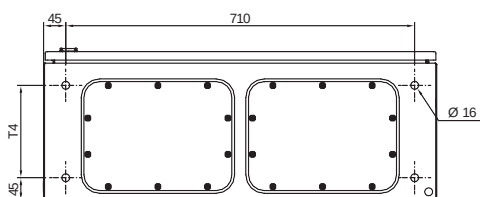
Section A – A



Section B – B



Drilled holes for base/plinth
(only for 1055.000/1180.000/1181.000)



O Door interior view

||:| Central hinge, only where $H1 > 800$ mm

rn Central embossed half-shear,
only where $B1/H1 \geq 500$ mm

@ Not applicable to B1 = 300 mm

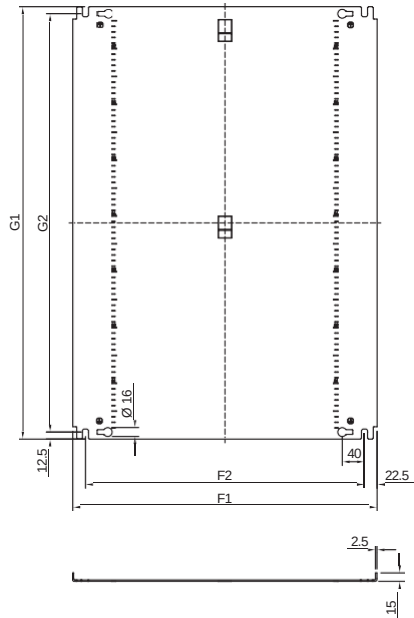
Compact enclosures

Compact enclosures AX, sheet steel

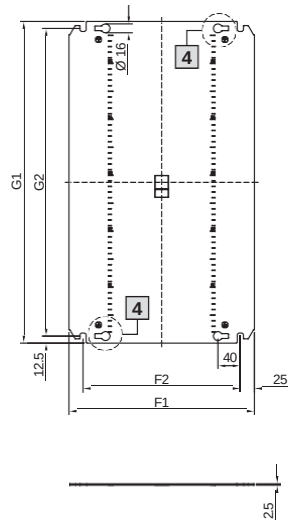
Basic enclosure AX

with cam lock and two gland plates

Mounting plate type 1,
with edge fold



Mounting plate type 2,
without edge fold



Enclosure

B1 = Enclosure width (overall width)

B2 = Door width

B3 = Clearance width, enclosure opening

B4 = Clearance width between door profile strips

B5 = Mounting distance, door profile strips

B6 = Mounting distance, enclosures

B7 = Gland plate opening

H1 = Enclosure height (overall height)

H2 = Door height

H3 = Clearance height, enclosure opening

H4 = Overall height, 25 mm pitch pattern of holes

H5 = Mounting distance, enclosures

N = No. of 25 mm pitch patterns of holes

T1 = Overall depth

T2 = Enclosure depth

T3 = Installation depth (distance from inside of door to mounting plate)

T4 = Spacing between holes for base/plinth

T7 = Gland plate opening

Mounting plate

F1 = Mounting plate width

F2 = Centre-to-centre spacing of the attachment holes

G1 = Mounting plate height

G2 = Centre-to-centre spacing of the attachment holes

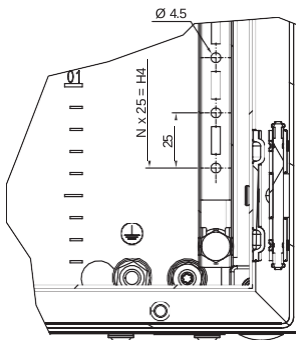
Gland plate

M = Gland plate width

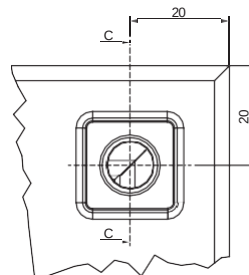
O = Gland plate depth

Type = Size of gland plate

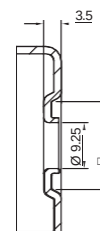
Detail X



Detail Y



Section C – C



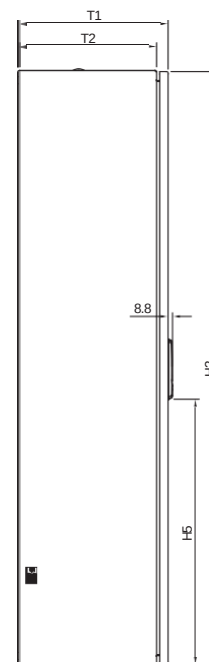
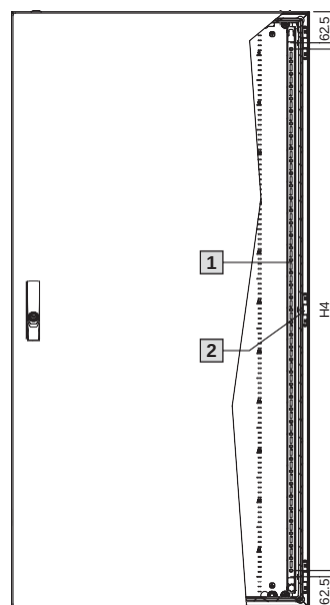
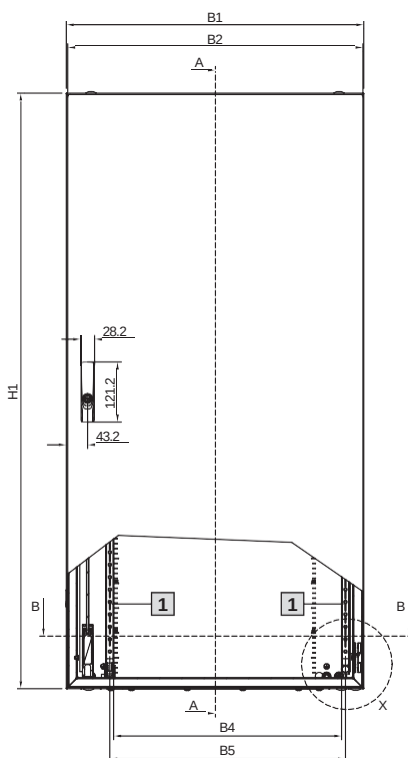
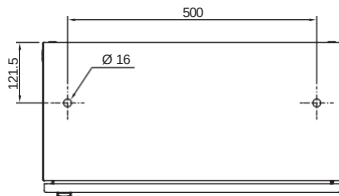
Model No. AX	Width dimensions mm							Height dimensions mm							Depth dimensions mm							Mounting plate mm					Gland plate mm		
	B1	B2	B3	B4	B5	B6	B7	H1	H2	H3	H4	H6	N	T1	T2	T3	T4	T7	F1	F2	G1	G2	Type	M	O	Type			
1055.000	800	795	752.2	709.5	725	760	265	600	595	556	450	560	18	300.7	277.5	278.7	187.5	185	750	700	575	550	2	301	221	5			
1073.000	760	755	712.2	669.5	685	720	265	760	755	716	600	720	24	300.7	277.5	278.7	—	185	705	660	735	710	1	301	221	5			
1077.000	760	755	712.2	669.5	685	720	303	760	755	716	600	720	24	210.7	187.5	188.7	—	113	705	660	735	710	1	339	149	2			
1180.000	800	795	752.2	709.5	725	760	265	1000	995	956	850	960	34	300.7	277.5	278.7	187.5	185	745	700	975	950	1	301	221	5			
1181.000	800	795	752.2	709.5	725	760	265	1000	995	956	850	960	34	400.7	377.5	378.7	287.5	185	745	700	975	950	1	301	221	5			

Compact enclosures AX, sheet steel

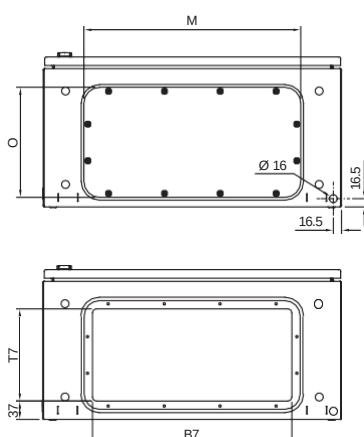
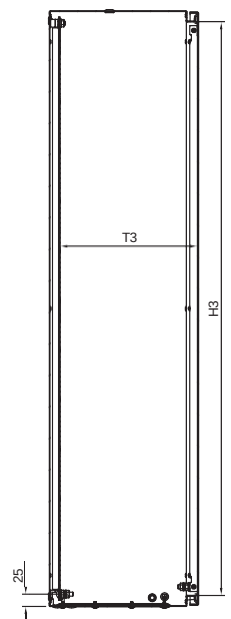
Basic enclosure AX

with 3-point locking system and one gland plate

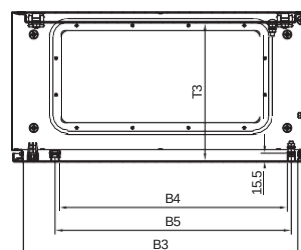
Drilled holes for eyebolts



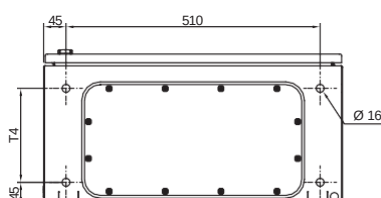
Section A – A



Section B – B



Drilled holes for base/plinth



O Door interior view

II:I Central hinge, only where $H1 > 800$ mm

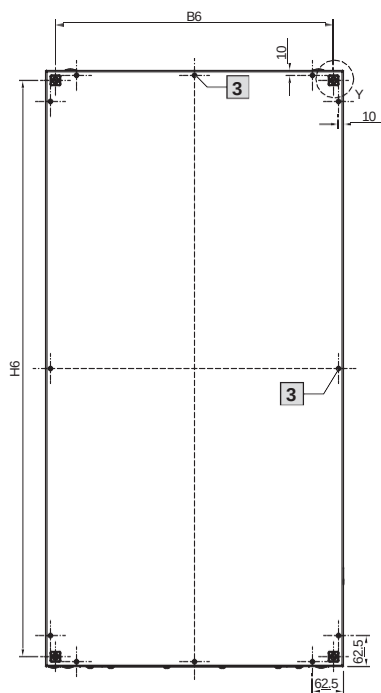
rn Central embossed half-shear,
only where $B1/H1 \geq 500$ mm

Compact enclosures

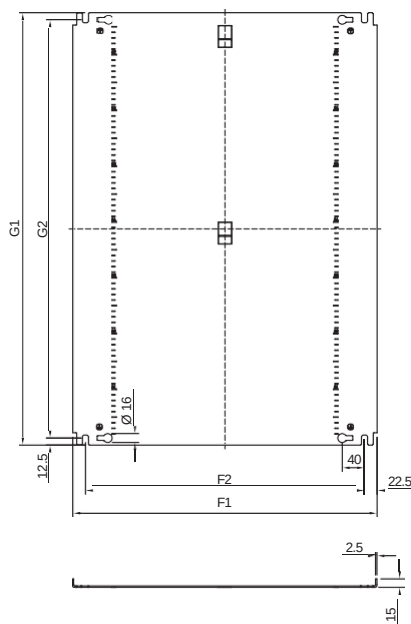
Compact enclosures AX, sheet steel

Basic enclosure AX

with 3-point locking system and one gland plate



Mounting plate type 1, with edge fold



Enclosure

- B1 = Enclosure width (overall width)
- B2 = Door width
- B3 = Clearance width, enclosure opening
- B4 = Clearance width between door profile strips
- B5 = Mounting distance, door profile strips
- B6 = Mounting distance, enclosures
- B7 = Gland plate opening
- H1 = Enclosure height (overall height)
- H2 = Door height
- H3 = Clearance height, enclosure opening
- H4 = Overall height, 25 mm pitch pattern of holes
- H5 = Distance from bottom edge of door to bottom edge of lock plate
- H6 = Mounting distance, enclosures
- N = No. of 25 mm pitch patterns of holes

- T1 = Overall depth
- T2 = Enclosure depth
- T3 = Installation depth (distance from inside of door to mounting plate)
- T4 = Spacing between holes for base/plinth
- T7 = Gland plate opening

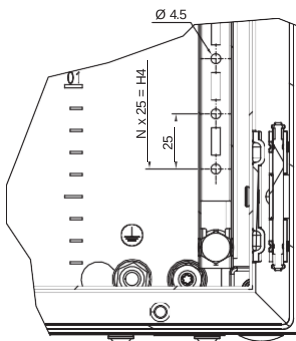
Mounting plate

- F1 = Mounting plate width
- F2 = Centre-to-centre spacing of the attachment holes
- G1 = Mounting plate height
- G2 = Centre-to-centre spacing of the attachment holes

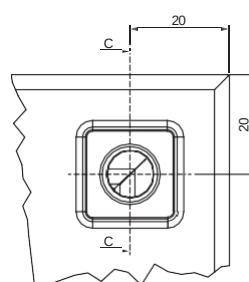
Gland plate

- M = Gland plate width
- O = Gland plate depth
- Type = Size of gland plate

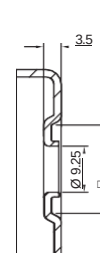
Detail X



Detail Y



Section C – C



Model No. AX	Width dimensions mm							Height dimensions mm							Depth dimensions mm					Mounting plate mm					Gland plate mm		
	B1	B2	B3	B4	B5	B6	B7	H1	H2	H3	H4	H5	H6	N	T1	T2	T3	T4	T7	F1	F2	G1	G2	Type	M	O	Type
1260.000	600	595	552.2	459.5	475	560	400	1200	1195	1156	1050	534.7	1160	42	300.7	277.5	277.2	187.5	185	545	500	1175	1150	1	436	221	7
1261.000	600	595	552.2	459.5	475	560	400	1200	1195	1156	1050	534.7	1160	42	400.7	377.5	377.2	287.5	185	545	500	1175	1150	1	436	221	7

Compact enclosures

Compact enclosures AX, sheet steel

Basic enclosure AX

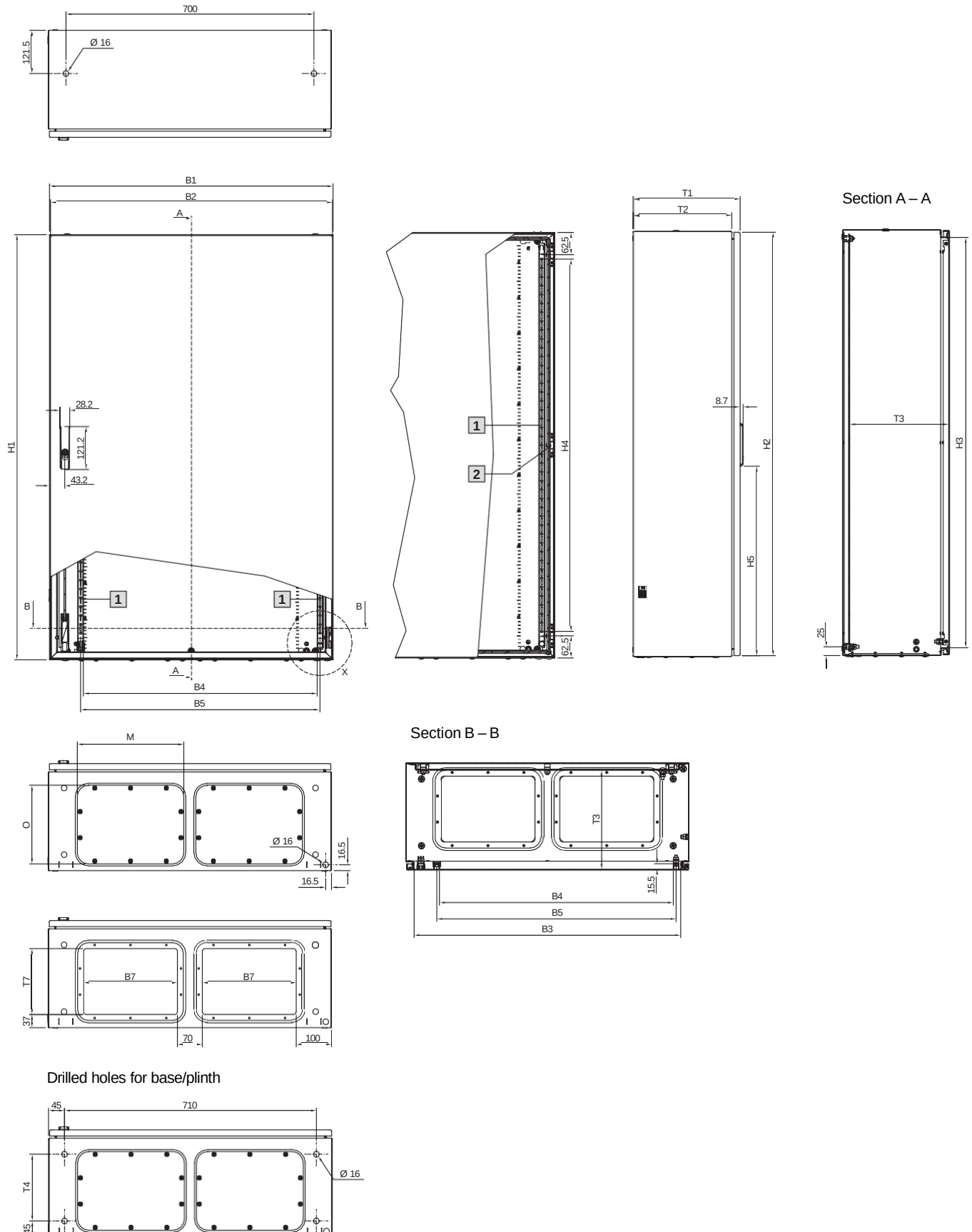
with 3-point locking system and two gland plates

Drilled holes for eyebolts

O Door interior view

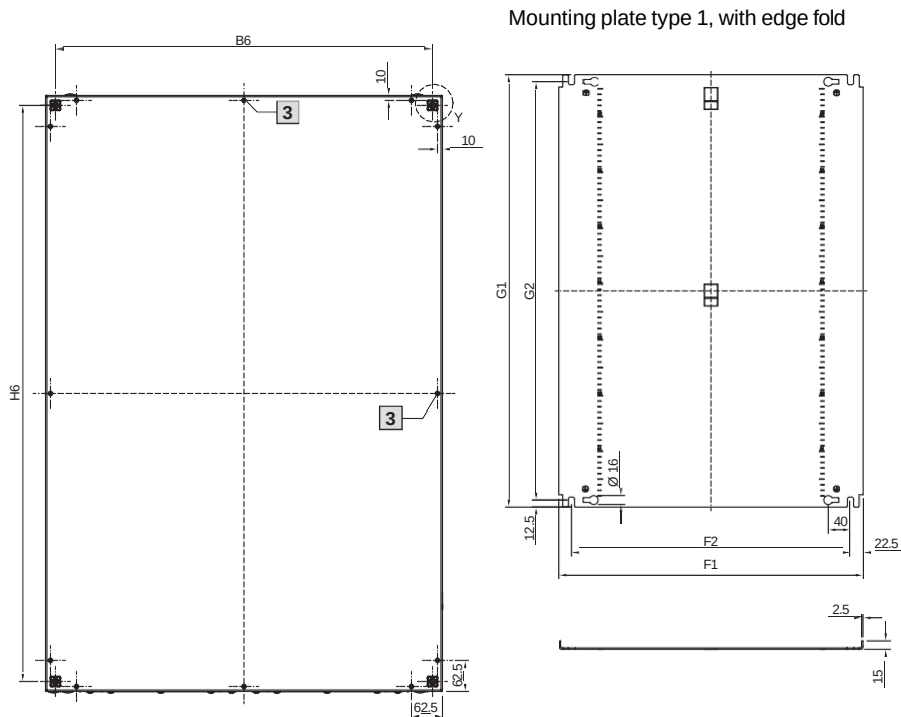
II:I Central hinge, only where $H1 > 800$ mm

rn Central embossed half-shear, only where $B1/H1 \geq 500$ mm



Basic enclosure AX

with 3-point locking system and two gland plates



Mounting plate type 1, with edge fold

Enclosure

B1 = Enclosure width (overall width)
B2 = Door width
B3 = Clearance width, enclosure opening
B4 = Clearance width between door profile strips
B5 = Mounting distance, door profile strips
B6 = Mounting distance, enclosures
B7 = Gland plate opening

H1 = Enclosure height (overall height)
H2 = Door height
H3 = Clearance height, enclosure opening
H4 = Overall height, 25 mm pitch pattern of holes
H5 = Distance from bottom edge of door to bottom edge of lock plate
H6 = Mounting distance, enclosures
N = No. of 25 mm pitch patterns of holes

T1 = Overall depth
T2 = Enclosure depth
T3 = Installation depth (distance from inside of door to mounting plate)
T4 = Spacing between holes for base/plinth
T7 = Gland plate opening

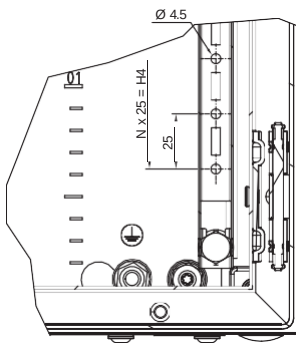
Mounting plate

F1 = Mounting plate width
F2 = Centre-to-centre spacing of the attachment holes
G1 = Mounting plate height
G2 = Centre-to-centre spacing of the attachment holes

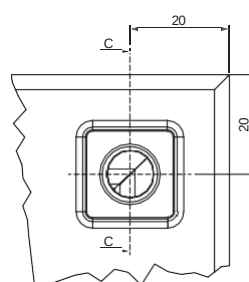
Gland plate

M = Gland plate width
O = Gland plate depth
Type = Size of gland plate

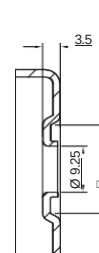
Detail X



Detail Y



Section C – C



Model No. AX	Width dimensions mm							Height dimensions mm							Depth dimensions mm					Mounting plate mm					Gland plate mm		
	B1	B2	B3	B4	B5	B6	B7	H1	H2	H3	H4	H5	H6	N	T1	T2	T3	T4	T7	F1	F2	G1	G2	Type	M	O	Type
1280.000	800	795	752.2	659.5	675	760	265	1200	1195	1156	1050	534.7	1160	42	300.7	277.5	278.7	187.5	185	745	700	1175	1150	1	301	221	5
1281.000	800	795	752.2	659.5	675	760	265	1200	1195	1156	1050	534.7	1160	42	400.7	377.5	378.7	287.5	185	745	700	1175	1150	1	301	221	5

Compact enclosures

Compact enclosures AX, sheet steel

Basic enclosure AX

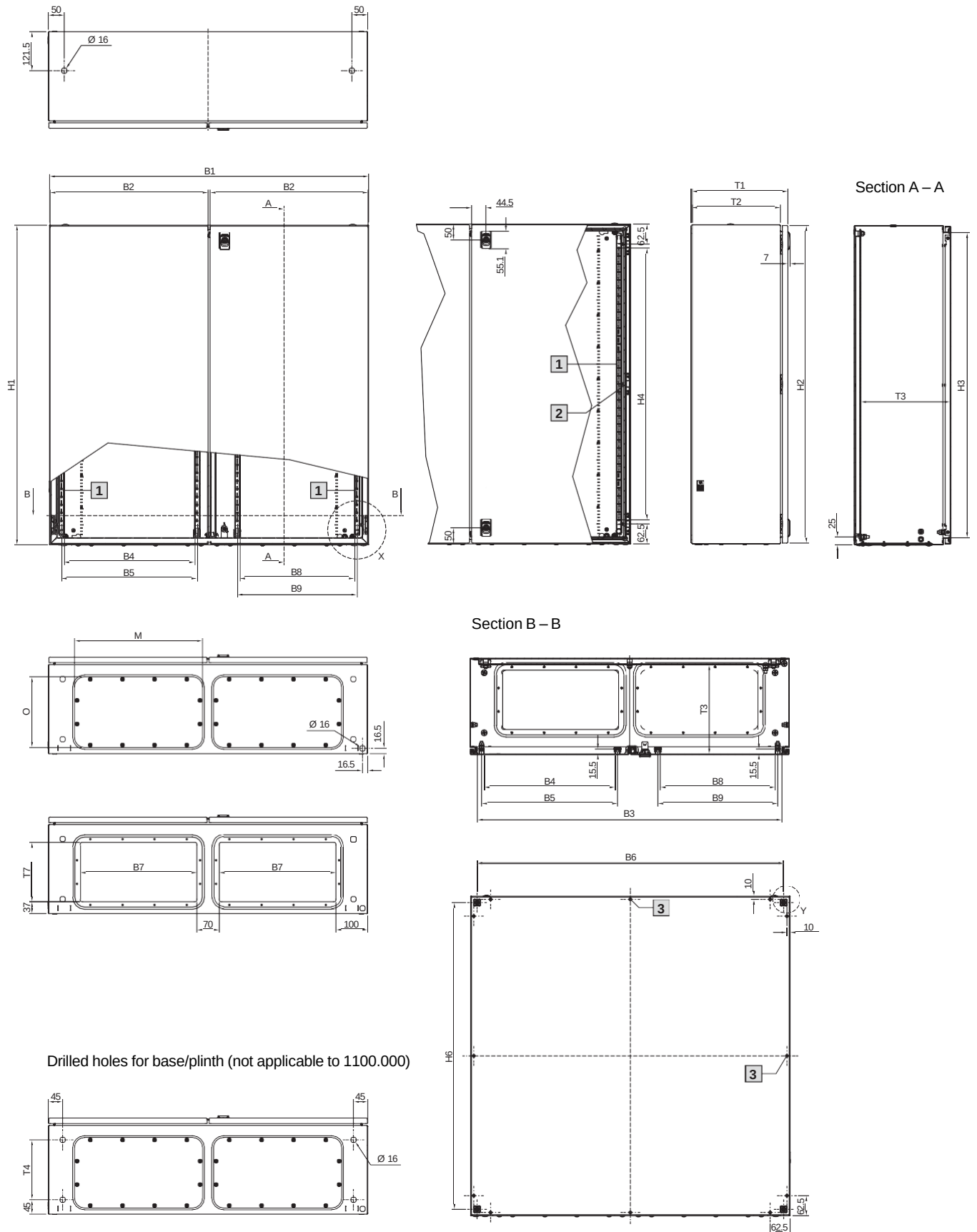
with cam lock, two-door

Drilled holes for eyebolts (not applicable to 1100.000)

O Door interior view

II:I Central hinge, only where $H1 > 800$ mm

rn Central embossed half-shear, only where $B1/H1 \geq 500$ mm



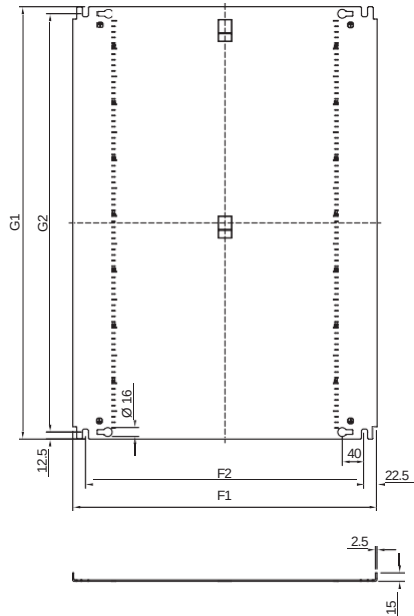
Compact enclosures

Compact enclosures AX, sheet steel

Basic enclosure AX

with cam lock, two-door

Mounting plate type 1, with edge fold



Enclosure

- B1 = Enclosure width (overall width)
- B2 = Door width
- B3 = Clearance width, enclosure opening
- B4 = Clearance width between door profile strips, hinged door (left-hand door)
- B5 = Mounting distance, door profile strips, hinged door (left-hand door)
- B6 = Mounting distance, enclosures
- B7 = Gland plate opening
- B8 = Clearance width between door profile strips, locked door (right-hand door)
- B9 = Mounting distance, door profile strips, locked door (right-hand door)

- H1 = Enclosure height (overall height)
- H2 = Door height
- H3 = Clearance height, enclosure opening
- H4 = Overall height, 25 mm pitch pattern of holes
- H6 = Mounting distance, enclosures
- N = No. of 25 mm pitch patterns of holes

- T1 = Overall depth
- T2 = Enclosure depth
- T3 = Installation depth (distance from inside of door to mounting plate)
- T4 = Spacing between holes for base/plinth
- T7 = Gland plate opening

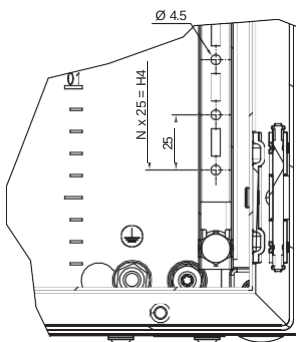
Mounting plate

- F1 = Mounting plate width
- F2 = Centre-to-centre spacing of the attachment holes
- G1 = Mounting plate height
- G2 = Centre-to-centre spacing of the attachment holes

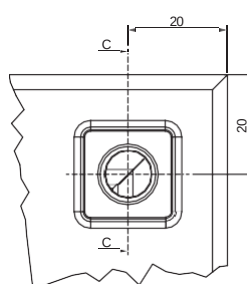
Gland plate

- M = Gland plate width
- O = Gland plate depth
- Type = Size of gland plate

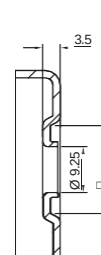
Detail X



Detail Y



Section C – C



Model No. AX	Width dimensions mm									Height dimensions mm						Depth dimensions mm				
	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2	H3	H4	H6	N	T1	T2	T3	T4	T7
1100.000	1000	495	952.4	409.5	425	960	411	359.5	375	760	755	716	600	720	24	210.7	187.5	188.7	–	113
1110.000	1000	495	952.4	409.5	425	960	365	359.5	375	1000	995	956	850	960	34	300.7	277.5	278.7	187.5	185
1130.000	1000	495	952.4	409.5	425	960	365	359.5	375	760	755	716	600	720	24	300.7	277.5	278.7	187.5	185

Model No. AX	Mounting plate mm					Gland plate mm		
	F1	F2	G1	G2	Type	M	O	Type
1100.000	945	900	735	710	1	447	149	3
1110.000	945	900	975	950	1	401	221	6
1130.000	945	900	735	710	1	401	221	6

Compact enclosures AX, sheet steel

Basic enclosure AX

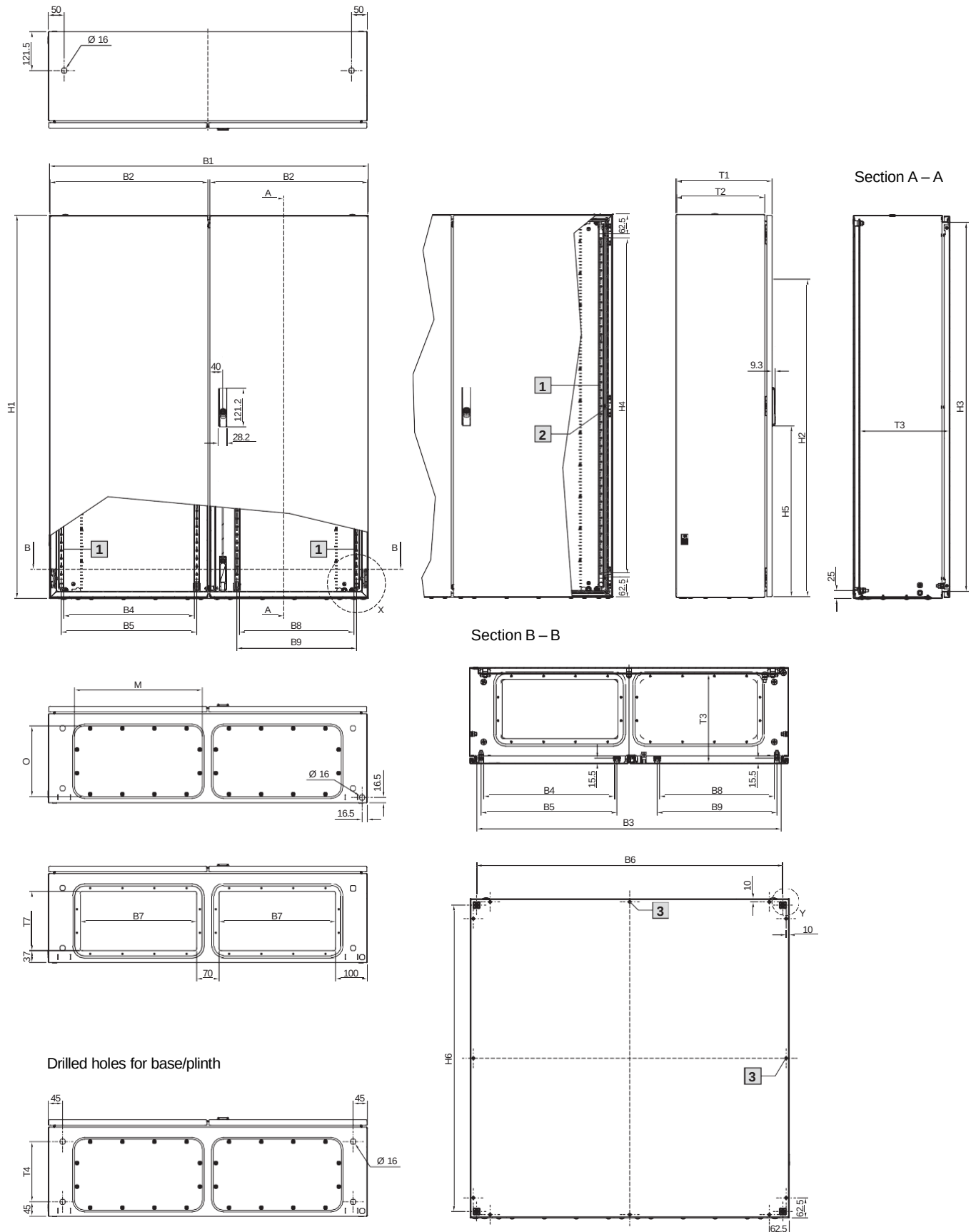
with 3-point lock system, double-door

Drilled holes for eyebolts

O Door interior view

II: Central hinge, only where $H1 > 800$ mm

rn Central embossed half-shear,
only where $B1/H1 \geq 500$ mm



Compact enclosures AX, sheet steel

with 3-point lock system, double-door

Technical drawing of a rectangular frame structure. The drawing shows a top-down view of a rectangular frame with a central square opening. The frame is composed of two vertical and two horizontal sections. The dimensions are labeled as follows:

- G1**: Total height of the frame.
- G2**: Height of the frame excluding the top and bottom flanges.
- F1**: Total width of the frame.
- F2**: Width of the frame excluding the left and right flanges.
- 12.5**: Height of the bottom flange.
- 40**: Height of the top flange.
- 2.5**: Thickness of the frame material.
- 5**: Thickness of the frame material (bottom right corner).
- Ø 16**: Diameter of the central square opening.
- a**: Small square features on the inner vertical sections.
- b**: Small square features on the inner horizontal sections.
- c**: Small square features on the outer vertical sections.

Enclosure
 B1 = Enclosure width (overall width)
 B2 = Door width
 B3 = Clearance width, enclosure opening
 B4 = Clearance width between door profile strips, hinged door (left-hand door)
 B5 = Mounting distance, door profile strips, hinged door (left-hand door)
 B6 = Mounting distance, enclosures
 B7 = Gland plate opening
 B8 = Clearance width between door profile strips, locked door (right-hand door)
 B9 = Mounting distance, door profile strips, locked door (right-hand door)

H1 = Enclosure height (overall height)
H2 = Door height
H3 = Clearance height, enclosure opening
H4 = Overall height, 25 mm pitch pattern of holes
H5 = Distance from bottom edge of door to bottom edge of lock plate
H6 = Mounting distance, enclosures
N = No. of 25 mm pitch patterns of holes

T1 = Overall depth
T2 = Enclosure depth
T3 = Installation depth (distance from inside of door to mounting plate)
T4 = Spacing between holes for base/plinth
T7 = Gland plate opening

F1 = Mounting plate width
F2 = Centre-to-centre spacing
of the attachment holes
G1 = Mounting plate height
G2 = Centre-to-centre spacing
of the attachment holes

M = Gland plate width
O = Gland plate depth
Type = Size of gland plate

Model No. AX	Width dimensions mm									Height dimensions mm							Depth dimensions mm				
	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2	H3	H4	H5	H6	N	T1	T2	T3	T4	T7
1213.000	1000	495	952.4	409.5	425	960	365	359.5	375	1200	1195	1156	1050	534.7	1160	42	300.7	277.5	278.7	187.5	185
1114.000	1000	495	952.4	409.5	425	960	365	359.5	375	1,400	1395	1356	1250	634.7	1360	50	300.7	277.5	278.7	187.5	185
1214.000	1000	495	952.4	409.5	425	960	365	359.5	375	1200	1195	1156	1050	534.7	1160	42	400.7	377.5	378.7	287.5	185
1115.000	1000	495	952.4	409.5	425	960	365	359.5	375	1,400	1395	1356	1250	634.7	1360	50	400.7	377.5	378.7	287.5	185
1116.000	1200	595	1152.4	509.5	525	1160	400	459.5	475	1200	1195	1156	1050	534.7	1160	42	400.7	377.5	378.7	287.5	185

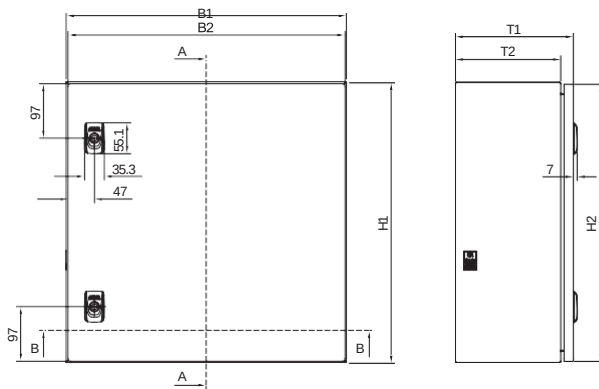
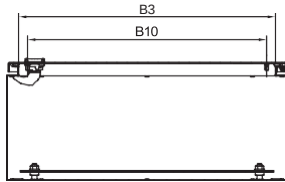
Model No. AX	Mounting plate mm					Gland plate mm		
	F1	F2	G1	G2	Type	M	O	Type
1213.000	945	900	1175	1150	1	401	221	6
1114.000	945	900	1375	1350	1	401	221	6
1214.000	945	900	1175	1150	1	401	221	6
1115.000	945	900	1375	1350	1	401	221	6
1116.000	1145	1100	1175	1150	1	436	221	7

Compact enclosures AX, stainless steel

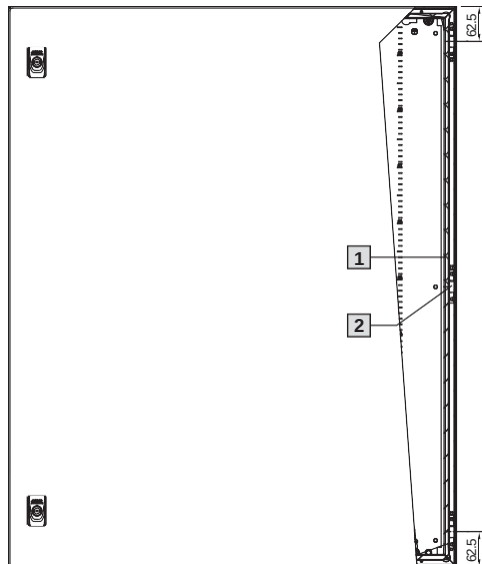
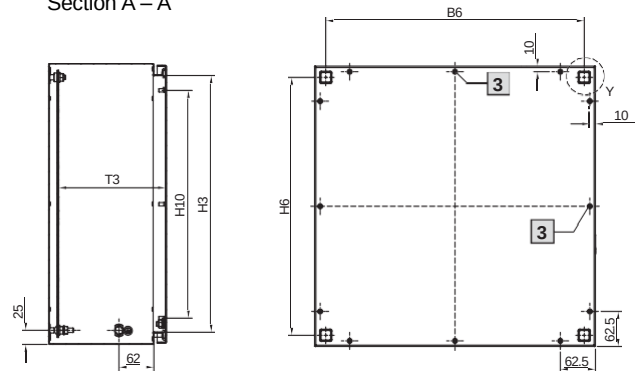
Basic enclosure AX

with cam lock, single-door

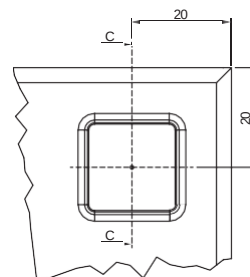
Section B – B



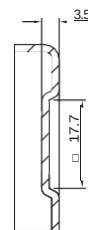
Section A – A



Detail Y



Section C – C



- Door interior view
- ||:| Central hinge, only where $H1 > 800$ mm
- rn Central embossed half-shear, only where $B1/H1 \geq 500$ mm
- @ Not applicable to $B1 = 300$ mm

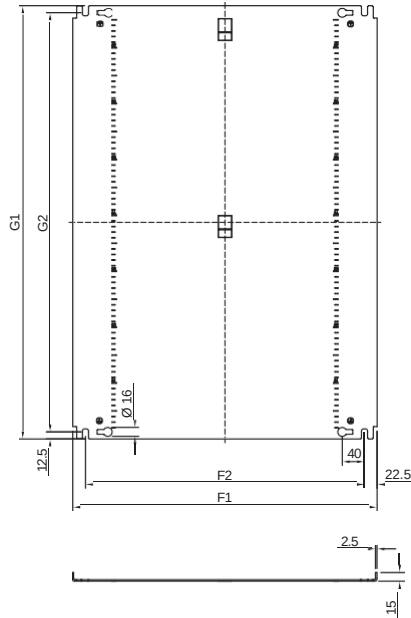
Compact enclosures

Compact enclosures AX, stainless steel

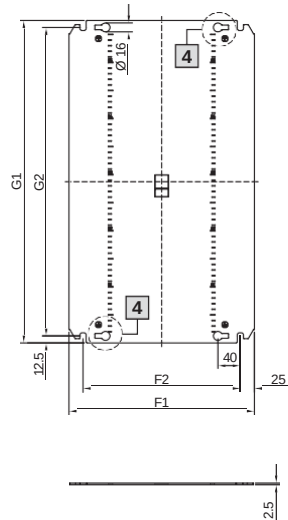
Basic enclosure AX

with cam lock, single-door

Mounting plate type 1,
with edge fold



Mounting plate type 2,
without edge fold



Enclosure

B1 = Enclosure width (overall width)

B2 = Door width

B3 = Clearance width, enclosure opening

B6 = Mounting distance, enclosures

B10 = Distance between threaded bolts

H1 = Enclosure height (overall height)

H2 = Door height

H3 = Clearance height, enclosure opening

H6 = Mounting distance, enclosures

H10 = Distance between threaded bolts

T1 = Overall depth

T2 = Enclosure depth

T3 = Installation depth (distance from inside
of door to mounting plate)

Mounting plate

F1 = Mounting plate width

F2 = Centre-to-centre spacing
of the attachment holes

G1 = Mounting plate height

G2 = Centre-to-centre spacing
of the attachment holes

Model No. AX	Width dimensions mm					Height dimensions mm					Depth dimensions mm			Mounting plates mm				
	B1	B2	B3	B6	B10	H1	H2	H3	H6	H10	T1	T2	T3	F1	F2	G1	G2	Type
1003.000	300	294	256.5	260	225	300	294	256.5	260	205	209.4	187.0	189.9	250	200	275	250	2
1005.000	300	294	256.5	260	225	380	374	336.5	340	285	209.4	187.0	189.9	250	200	355	330	2
1006.000	380	374	336.5	340	305	380	374	336.5	340	285	209.4	187.0	189.9	330	280	355	330	2
1007.000	500	494	456.5	460	425	500	494	456.5	460	405	209.4	187.0	189.9	450	400	475	450	2
1008.000	380	374	336.5	340	305	600	594	556.5	560	505	209.4	187.0	189.9	330	280	575	550	2
1009.000	600	594	556.5	560	525	380	374	336.5	340	285	209.4	187.0	189.9	550	500	355	330	2
1010.000	600	594	556.0	560	525	600	594	556	560	505	209.4	187.5	189.9	550	500	575	550	2
1011.000	380	374	336.5	340	305	300	294	256.5	260	205	209.4	187.0	189.9	330	280	275	250	2
1012.000	600	595	556.0	560	525	760	755	716.5	720	665	209.4	187.5	189.9	550	500	735	710	2
1013.000	500	494	456.0	460	425	500	494	456.5	460	405	300.4	277.5	280.9	450	400	475	450	2
1014.000	760	755	716.0	720	685	760	755	716.5	720	665	300.4	277.5	280.9	705	660	735	710	1
1015.000	400	394	356.5	360	325	500	494	456.5	460	405	209.4	187.0	189.9	350	300	475	450	2
1016.000	800	795	756.0	760	725	1000	995	956.5	960	905	300.4	277.5	280.9	745	700	975	950	1
1302.000	300	294	256.5	260	225	380	374	336.5	340	285	209.4	187.0	189.9	250	200	355	330	2
1303.000	380	374	336.5	340	305	380	374	336.5	340	285	209.4	187.0	189.9	330	280	355	330	2
1304.000	600	594	556.0	560	525	600	594	556.5	560	505	209.4	187.5	189.9	550	500	575	550	2

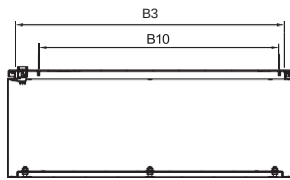
Compact enclosures

Compact enclosures AX, stainless steel

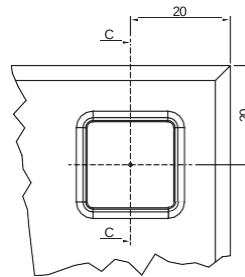
Basic enclosure AX

with 3-point lock system, single-door

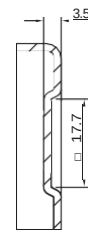
Section B – B



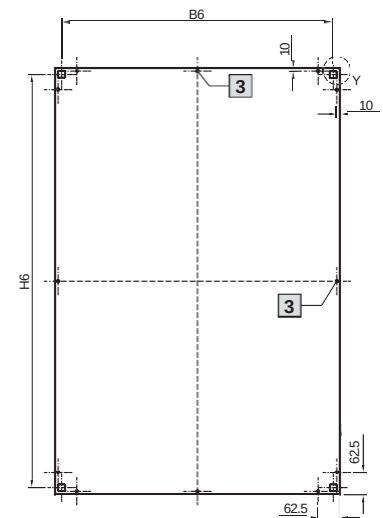
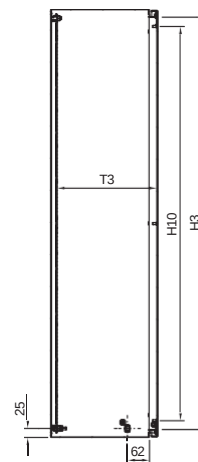
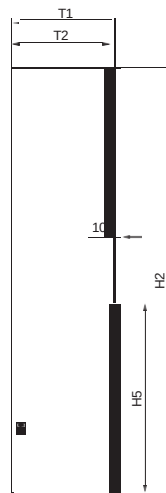
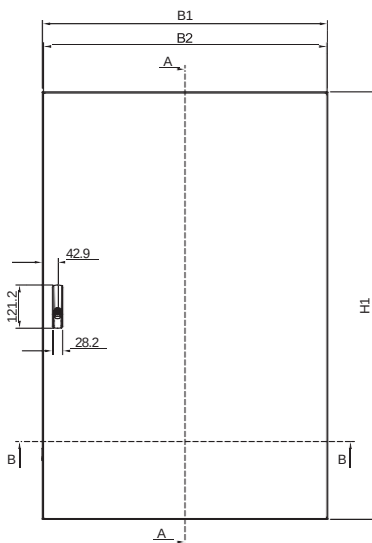
Detail Y



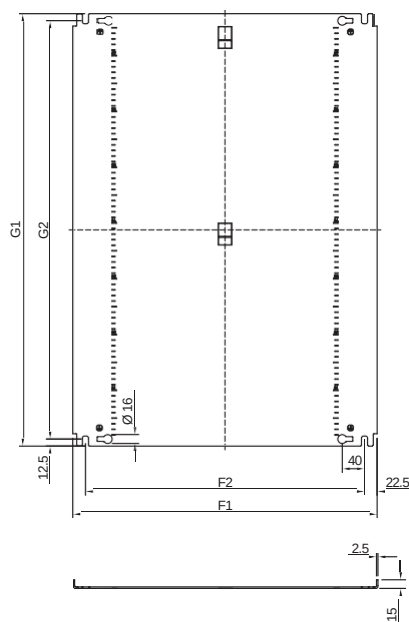
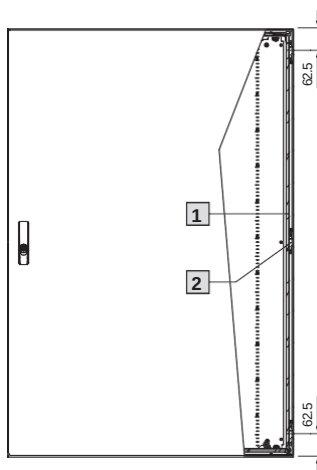
Section C – C



Section A – A



Mounting plate type 1, with edge fold



Enclosure

B1 = Enclosure width (overall width)

B2 = Door width

B3 = Clearance width, enclosure opening

B6 = Mounting distance, enclosures

B10 = Distance between threaded bolts

H1 = Enclosure height (overall height)

H2 = Door height

H3 = Clearance height, enclosure opening

H5 = Bottom edge of door to bottom edge of lock plate

H6 = Mounting distance, enclosures

H10 = Distance between threaded bolts

T1 = Overall depth

T2 = Enclosure depth

T3 = Installation depth (distance from inside of door to mounting plate)

Mounting plate

F1 = Mounting plate width

F2 = Centre-to-centre spacing of the attachment holes

G1 = Mounting plate height

G2 = Centre-to-centre spacing of the attachment holes

○ Door interior view

||:| Central hinge, only where H1 > 800 mm

m Central embossed half-shear, only where B1/H1 ≥ 500 mm

Model No. AX	Width dimensions mm					Height dimensions mm						Depth dimensions mm			Mounting plates mm				
	B1	B2	B3	B6	B10	H1	H2	H3	H5	H6	H10	T1	T2	T3	F1	F2	G1	G2	Type
1017.000	800	795	756	760	675	1200	1195	1156	534.7	1160	1150	300.4	277.5	280.4	745	700	1175	1150	1

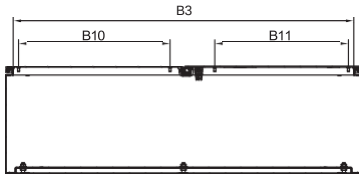
Compact enclosures

Compact enclosures AX, stainless steel

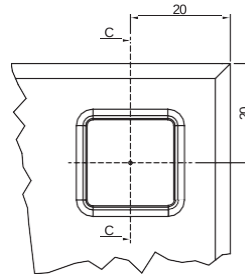
Basic enclosure AX

with cam lock, double-door
with 3-point locking system, double-door

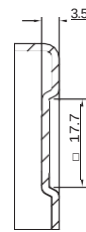
Section B – B



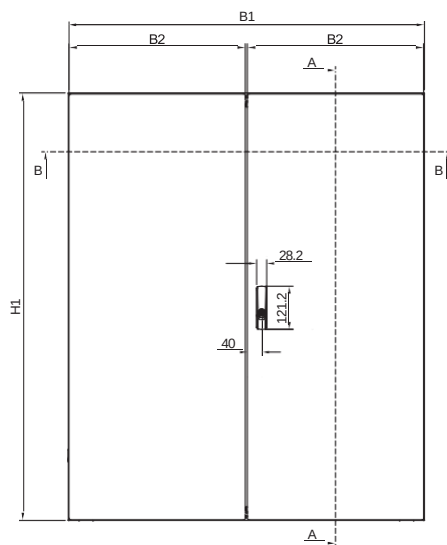
Detail Y



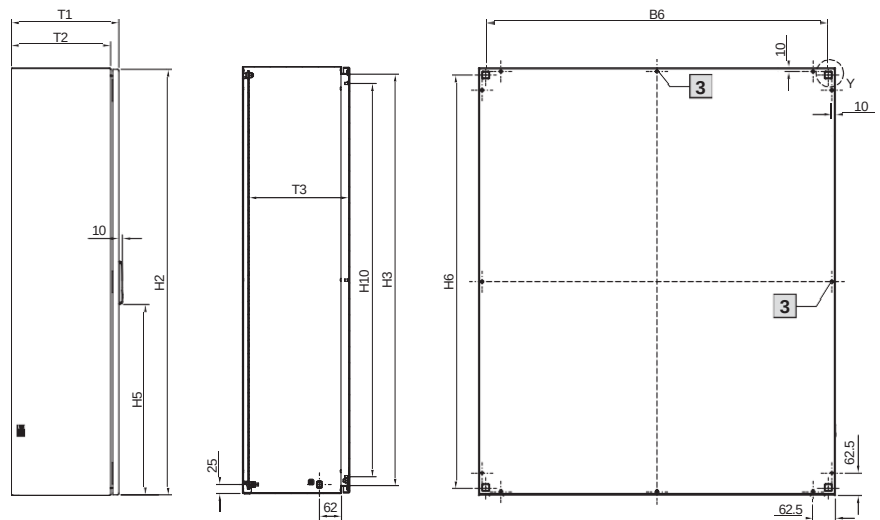
Section C – C



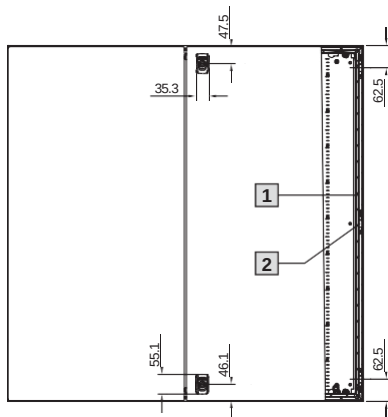
With 3-point lock system where $H1 > 1000$ mm



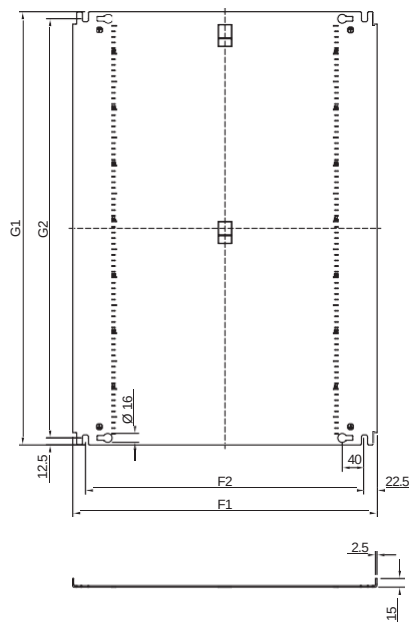
Section A – A



With cam lock where $H1 \leq 1000$ mm



Mounting plate type 1, with edge fold



Enclosure

B1 = Enclosure width (overall width)
B2 = Door width
B3 = Clearance width, enclosure opening
B6 = Mounting distance, enclosures
B10 = Distance between threaded bolts, adjacent door
B11 = Distance between threaded bolts, locked door

H1 = Enclosure height (overall height)
H2 = Door height
H3 = Clearance height, enclosure opening
H5 = Bottom edge of door to bottom edge of lock plate
H6 = Mounting distance, enclosures
H10 = Distance between threaded bolts

T1 = Overall depth
T2 = Enclosure depth
T3 = Installation depth (distance from inside of door to mounting plate)

Mounting plate

F1 = Mounting plate width
F2 = Centre-to-centre spacing of the attachment holes

G1 = Mounting plate height
G2 = Centre-to-centre spacing of the attachment holes

○ Door interior view

||: Central hinge, only where $H1 > 800$ mm

m Central embossed half-shear, only where $B1/H1 \geq 500$ mm

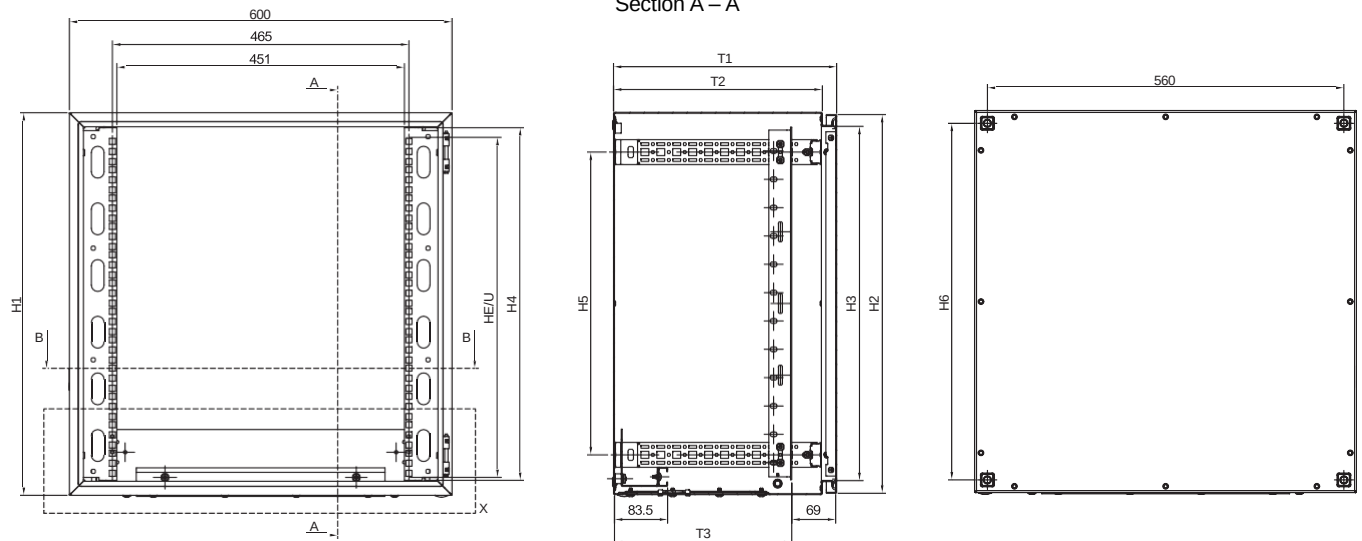
Model No. AX	Width dimensions mm						Height dimensions mm						Depth dimensions mm			Mounting plates mm				
	B1	B2	B3	B6	B10	B11	H1	H2	H3	H5	H6	H10	T1	T2	T3	F1	F2	G1	G2	Type
1018.000	1000	495	956	960	425	375	1000	995	956	—	960	905	300.4	277.5	280.4	945	900	975	950	1
1019.000	1000	495	956	960	425	375	1200	1195	1156	535.4	1160	1105	300.4	277.5	280.4	945	900	1175	1150	1
1305.000	1000	495	956	960	425	375	1200	1195	1156	535.4	1160	1105	300.4	277.5	280.4	945	900	1175	1150	1

Compact enclosures

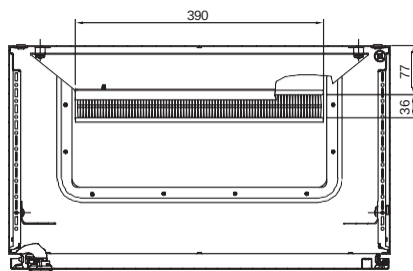
Compact enclosures AX

Wall-mounted enclosures AX IT

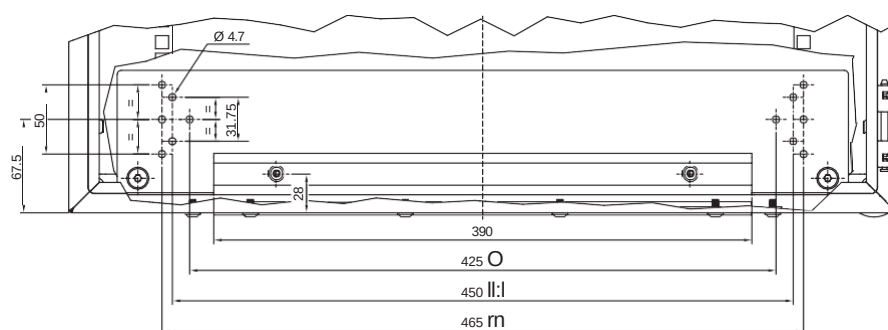
with 482.6 mm (19") mounting angles, depth-variable



Section B – B



Detail X



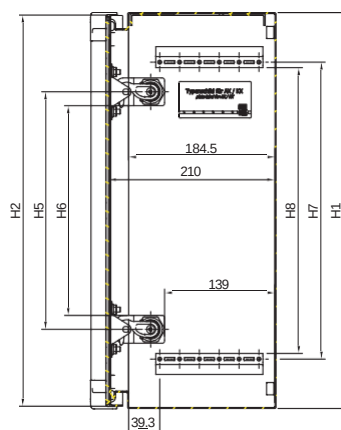
○ For earth rail
DK 7113.000

||:| For 482.6 mm (19") socket strip, 1 U
DK 7240.XXX

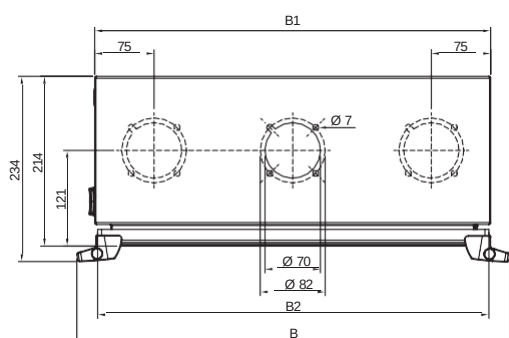
||:| For 482.6 mm (19") socket strip, 2 U
DK 7000.630

Model No. AX IT	Height dimensions mm						H6	Depth dimensions mm		
	U	H1	H2	H3	H4	H5		T1	T2	T2
7641.350	7	380	374	336	333	255	340	350	327.5	278
7643.350	12	600	594	556	553	475	560	350	327.5	278
7645.350	16	760	754	716	711	635	720	350	327.5	278
7646.400	16	800	794	756	711	650	760	400	377.5	316

with handle strips, service access from the front



☐ Not applicable to AX 6315.150



B = Overall width with handle strips
B1 = Enclosure width
B2 = Door width
B3 = Maximum usable mounting space in the width

H = Overall height with handle strips
H1 = Enclosure height
H2 = Door height
H3 = Maximum usable mounting space in the height
H5 = Lock spacing
H6 = Clearance height between positioning brackets
H7 = Mounting distance between mounting brackets
H8 = Clearance height between mounting brackets

Model No. AX	Width dimensions mm				Height dimensions mm							
	B	B1	B2	B3	H	H1	H2	H3	H5	H6	H7	H8
6315.150	345	300	294	211	301	300	294	245	—	—	175	161
6315.250	425	380	374	291	301	300	294	245	—	—	175	161
6315.350	425	380	374	291	381	380	374	325	—	—	275	261
6315.450	545	500	494	411	501	500	494	445	300	265	375	361
6315.650	645	600	594	511	601	600	594	545	400	365	475	461

Compact enclosures

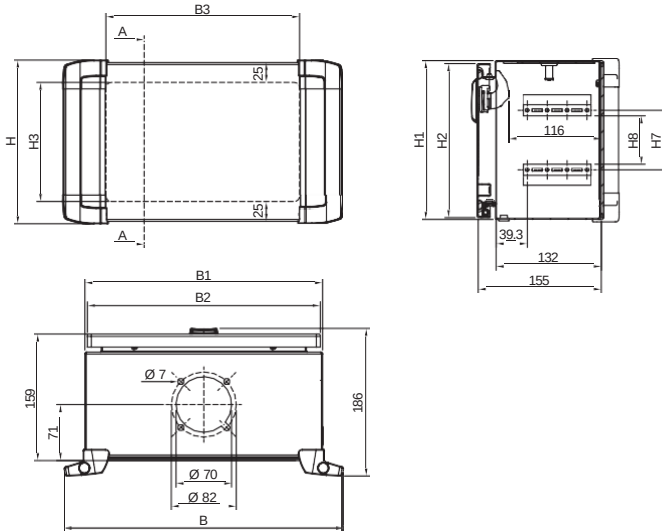
Compact enclosures AX

Command panel AX

with handle strips, service access from the rear

AX 6320.050

Section A – A



Enclosure

B = Overall width with handle strips

B1 = Enclosure width

B2 = Door width

B3 = Maximum usable mounting space in the width

H = Overall height with handle strips

H1 = Enclosure height

H2 = Door height

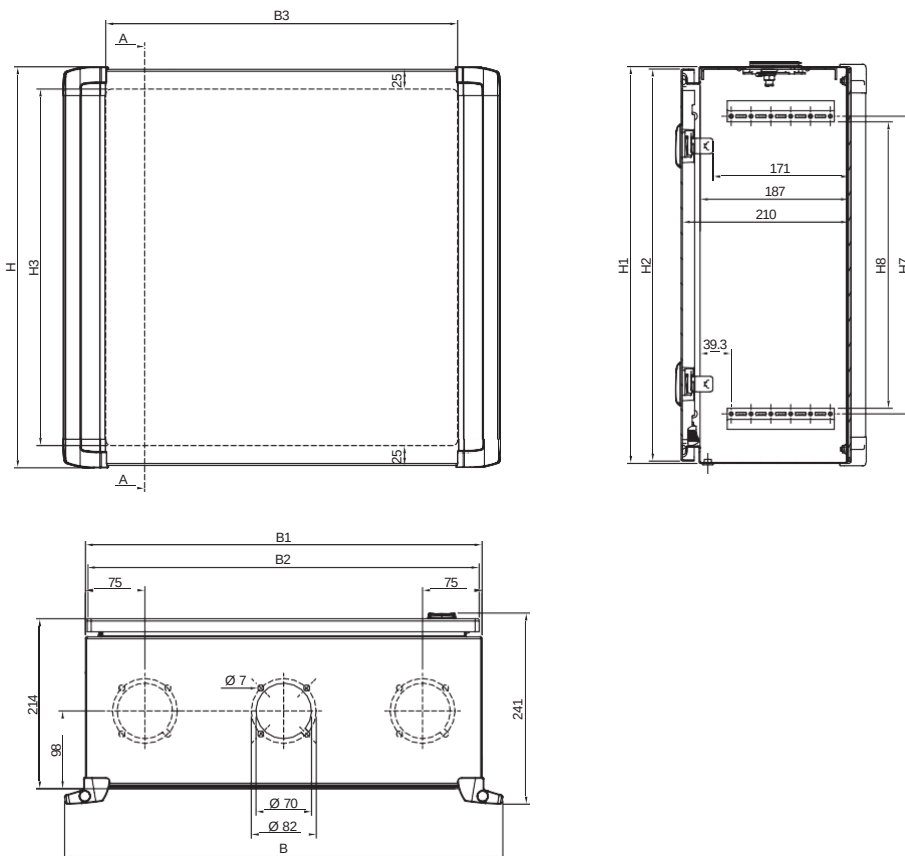
H3 = Maximum usable mounting space in the height

H7 = Mounting distance between mounting brackets

H8 = Clearance height between mounting brackets

AX 6320.350, AX 6320.450, AX 6320.550, AX 6320.650

Section A – A

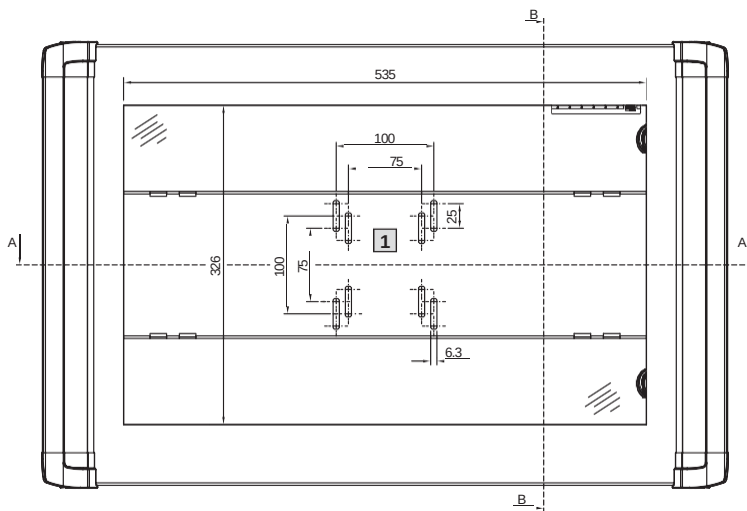


Model No. AX	Width dimensions mm				Height dimensions mm					
	B	B1	B2	B3	H	H1	H2	H3	H7	H8
6320.050	352.5	300	294	244	206	200	194	150	75	61
6320.350	432.5	380	374	324	386	380	374	330	275	261
6320.450	552.5	500	494	444	506	500	494	450	375	361
6320.550	652.5	600	594	544	386	380	374	330	275	261
6320.650	652.5	600	594	544	606	600	594	550	475	461

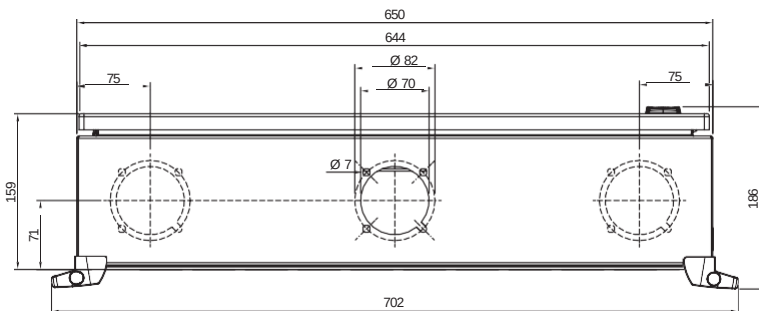
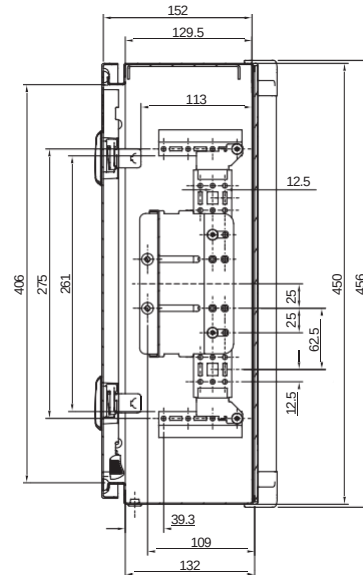
Command panel AX

AX 6321.050

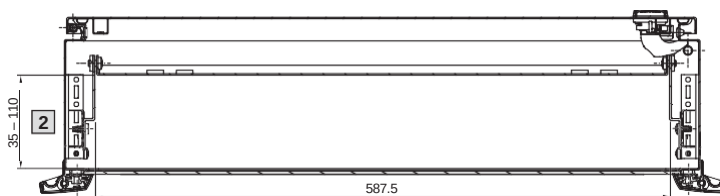
Section B – B



☐ Monitor infinitely adjustable in the height



Section A – A



II:| Monitor infinitely adjustable in the depth

Rittal – The System.

Faster – better – everywhere.

- Enclosures
- Power Distribution
- Climate Control
- IT Infrastructure
- Software & Services

You can find the contact details of all
Rittal companies throughout the world here.



www.rittal.com/contact

XWWW00195EN2008

ENCLOSURES

POWER DISTRIBUTION

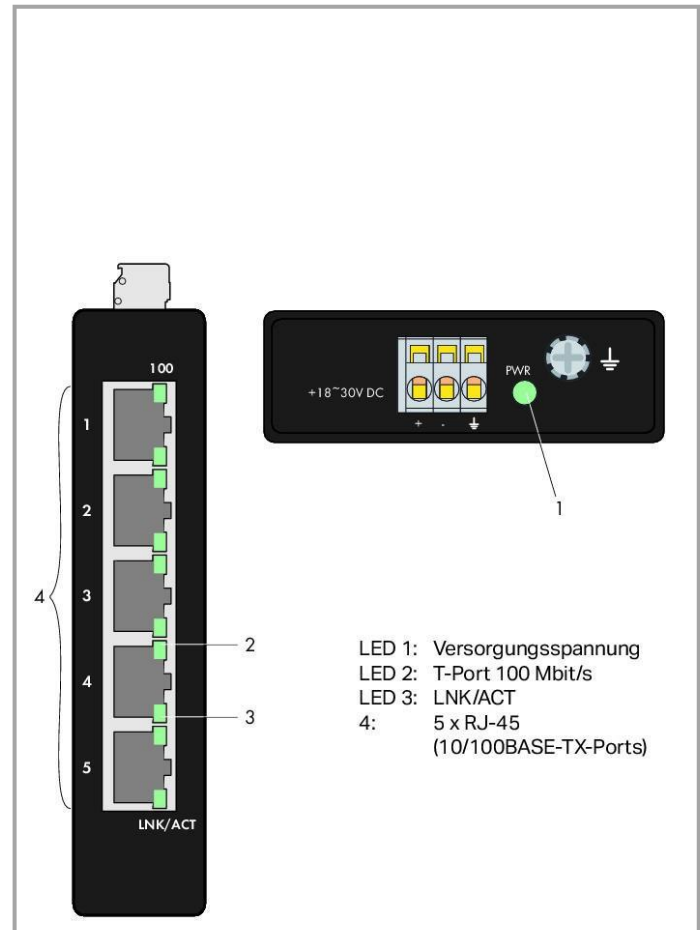
CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES



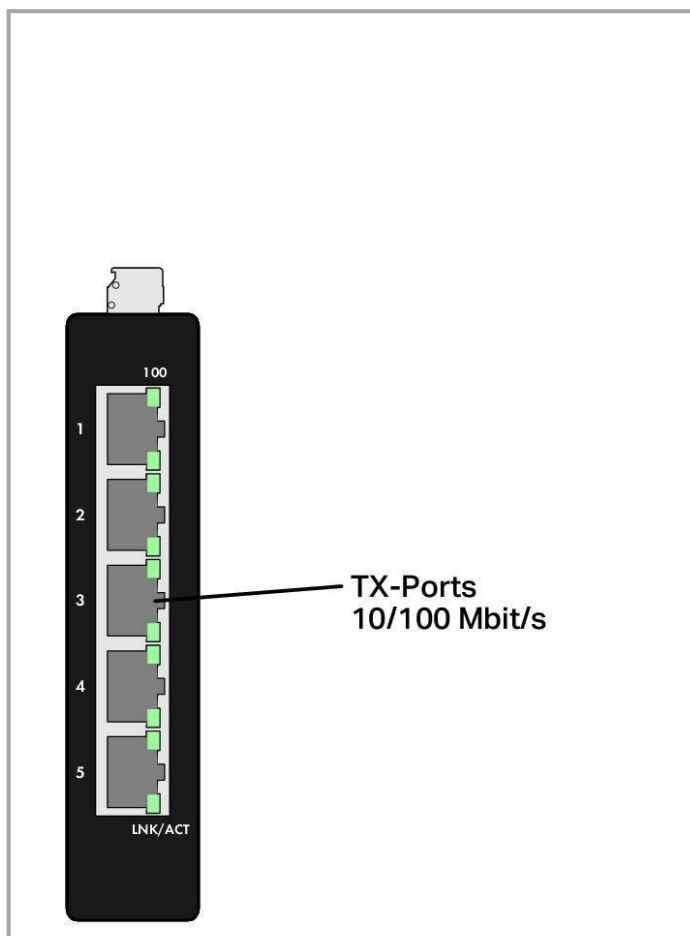
FRIEDHELM LOH GROUP



RoHS 
Compliant



Color:



Item description

The 852-111 is a 5-port 10/100Base-TX industrial ETHERNET switch supporting Auto-Negotiation and Auto-MDI-/MDI-X detection for each port.

Using the switch's 5 ports, several segments can be created to reduce the network load, while providing a dedicated bandwidth to each user node. The 852-111 switch is a cost-effect solution to keep up with the constant demands of IP-based, industrial communication needs.

The switch is easy to configure and install and is best suited for small to medium-sized networks.

Features:

- 5 ETHERNET ports, 10/100 Mbps autonegotiation
- Front-panel diagnostic LEDs
- Supports Auto-MDI/MDI-X functions
- Full/half-duplex transfer modes for each port
- Store-and-forward switching method
- Integrated address look-up table, supports 2000 absolute MAC addresses
- Overvoltage protection
- IEEE 802.3x flow control in full-duplex mode
- DIN-35 rail mounting

Data

Technical Data

Switchingmodus	Store-and-forward, non-blocking
Number of 100Base-TX ports	5
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x Flow Control
MAC table (large)	2000 addresses
Jumbo frame size	1536 Byte
Supply voltage	DC 18 ... 30 V
Energy consumption max.	3 W
Baud rate	Copper cable: 10/100Mbit/s
Übertragungsmedium (Kommunikation/Feldbus)	Copper cable: Cat. 5 or higher, 100 m maximum cable length
Topology	Star
Indicators	Device: LED (PWR) green: Power supply; per port: LED (100, LNK /ACT) green: Status 100 Mbps, LNK/ACT port 1 ... 5

Connection data

Anschluss technik: Kommunikation/Feldbus	Copper cable: 5 x RJ-45
Anschluss technik: Versorgung	1 x im Gerät verbaute Stiftleiste: 231-433/001-000; mitgelieferte Federleiste (Steckverbinder MCS): 231-103/026-000

Geometrical Data

Width	23.4 mm / 0.921 inch
Height from upper-edge of DIN-35 rail	81 mm / 3.189 inch
Depth	109.2 mm / 4.299 inch

Mechanical data

Weight	352 g
Color	black
Housing material	Sheet steel

Environmental Requirements

Surrounding air (operating) temperature	-40 ... 70 °C
Surrounding air (storage) temperature	-40 ... 80 °C
Degree of protection	IP30
Relative air humidity (no condensation)	95 %
Type of mounting	DIN-35 rail
Vibration resistance	acc. to IEC 60068-2-6

Shock resistance	acc. to IEC 60068-2-27
Fire load	5.28 MJ

Commercial data

Country of origin	TW
GTIN	4045454847593
Customs Tariff No.	85176200000
Product Group	27 (Special components I/O)

Approvals / Certificates

Ship Approvals

Logo	Approval	Certificate name
	DNV DNV Germany GmbH	A-14050

Compatible products

General accessories

	Item no.: 852-9101 DNV Carrier rail adapter; for ETHERNET Switches 852-111/ 852-1111 marine approval	www.wago.com/852-9101
--	---	--

transfer module

	Item no.: 289-172 Interface module for ETHERNET RJ-45	www.wago.com/289-172
	Item no.: 289-175 Interface module for ETHERNET RJ-45	www.wago.com/289-175
	Item no.: 289-195 Interface module for ETHERNET RJ-45; for DIN 35 rail; with shield connection	www.wago.com/289-195
	Item no.: 289-196 Interface module with RJ-45 connectors; CAGE CLAMP® CONNECTION; with LED; Fused	www.wago.com/289-196

wiring and connectors

	Item no.: 750-975 ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly	www.wago.com/750-975
	Item no.: 750-976 PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly	www.wago.com/750-976
	Item no.: 750-977/000-011 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22	www.wago.com/750-977/000-011



Item no.: 750-977/000-012
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22

www.wago.com/750-977/000-012



Item no.: 750-977/000-013
Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22

www.wago.com/750-977/000-013



Item no.: 750-977/000-021
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24

www.wago.com/750-977/000-021



Item no.: 750-977/000-022
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24

www.wago.com/750-977/000-022



Item no.: 750-978/000-011
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief

www.wago.com/750-978/000-011



Item no.: 750-978/000-012
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief

www.wago.com/750-978/000-012



Item no.: 750-978/000-013
Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief

www.wago.com/750-978/000-013



Item no.: 750-978/000-021
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief

www.wago.com/750-978/000-021



Item no.: 750-978/000-022
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief

www.wago.com/750-978/000-022



Item no.: 750-979/000-011
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief

www.wago.com/750-979/000-011



Item no.: 750-979/000-012
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief

www.wago.com/750-979/000-012



Item no.: 750-979/000-013
Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief

www.wago.com/750-979/000-013



Item no.: 750-979/000-021
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief

www.wago.com/750-979/000-021



Item no.: 750-979/000-022
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief

www.wago.com/750-979/000-022

power supply

	Item no.: 787-1102 Switched-mode power supply; EPSITRON® COMPACT Power; 1-phase; 24 VDC output voltage; 1.3 A output current; DC OK signal	www.wago.com/787-1102
	Item no.: 787-1112 Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current; DC OK signal	www.wago.com/787-1112
	Item no.: 787-1122 Switched-mode power supply; EPSITRON® COMPACT Power; 1-phase; 24 VDC output voltage; 4 A output current; DC OK signal	www.wago.com/787-1122
	Item no.: 787-1226 Switched-mode power supply; EPSITRON® COMPACT Power; 1-phase; 24 VDC output voltage; 6 A output current	www.wago.com/787-1226
	Item no.: 787-1702 Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current	www.wago.com/787-1702
	Item no.: 787-1712 Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current	www.wago.com/787-1712
	Item no.: 787-1722 Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current	www.wago.com/787-1722

Downloads

Documentation

Manual

5-Port 100BASE-TX Industrial ECO Switch	13-ott-2015	916.0 kB	Download
---	-------------	----------	--------------------------

Bid Text

852-111 Switch	21-gen-2016	DOC 27.6 kB	Download
-------------------	-------------	----------------	--------------------------

Instruction Leaflet

Operating and assembly instructions 852-111 / 852-112	8-mag-2014	PDF 1.7 MB	Download
---	------------	---------------	--------------------------

Installation manual

Operating and assembly instructions 852-111 / 852-112	8-mag-2014	PDF 1.7 MB	Download
---	------------	---------------	--------------------------

Additional Information

Disposal; Electrical and electronic equipment, Packaging	15-ott-2018	265.8 kB	Download
--	-------------	----------	--------------------------

System Description

Industrial Switches - General Product Information



6-giu-2017 [Download](#)
514.9 kB

smartDATA

CAD data

3D Download 852-111	URL	Download
---------------------	---------------------	--------------------------

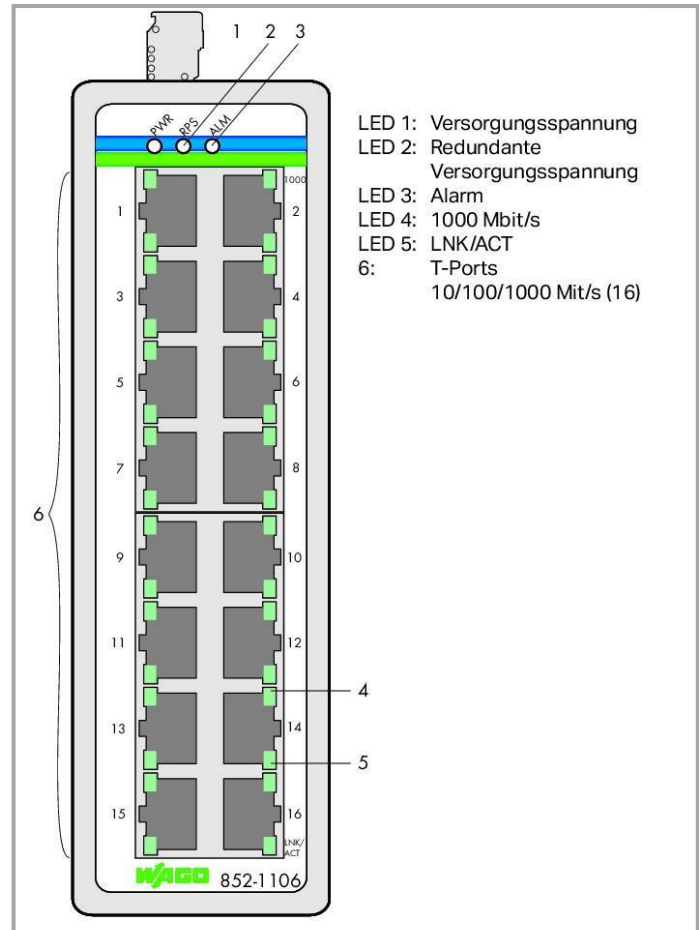
Subject to changes.

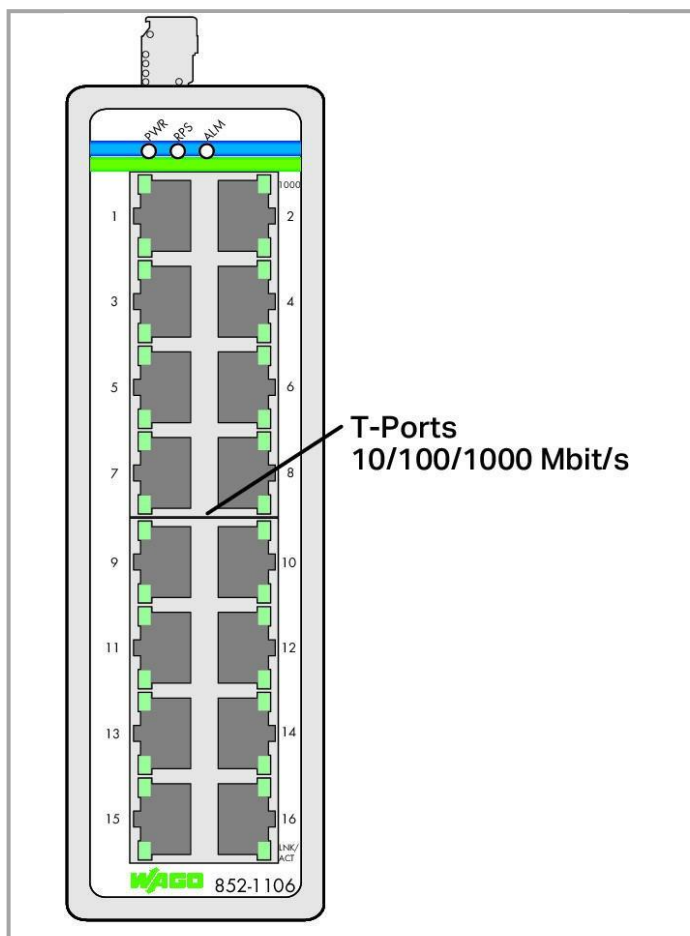


RoHS Compliant

BOMcheck.net

Color:





Item description

The 852-1106 Industrial Switch is a 16-port 10/100/1000Base-T ETHERNET switch.

The switch has a rugged metal housing, redundant power supply and function monitoring with a relay. These functions and an operating range of -40 to +70°C make it ideal for a wide range of industrial applications.

Features:

- Redundant DC power supply
- Wide supply voltage range: 12 ... 60 VDC
- DIP switches to set alarm functions
- Full compliance with IEEE 802.3, 802.3u and 802.3ab standards
- Non-blocking, store-and-forward switching
- Auto-Negotiation on all 10/100/1000Base-T ports
- Auto-MDI/MDIX (crossover) at all 10/100/1000Base-T ports
- Integrated address look-up table, supports up to 8000 absolute MAC addresses
- Overvoltage protection
- Prioritization of Profinet Ethernet Frame (EtherType=0x8892) according to IEEE802.1p

Data

Technical Data

Switchingmodus	Store-and-forward, non-blocking
Number of 1000Base-T ports	16
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/FX IEEE 802.3ab 1000BASE-T IEEE 802.3x Flow Control IEEE 802.3az Energy Efficient Ethernet IEEE 802.1p Prioritization
Redundancy function	Redundant DC power supply
Configuration options	DIP switch for signal contact
Diagnostics	Signal contact
MAC table (large)	8000 addresses
Jumbo frame size	10000 Byte
Supply voltage	DC 12 ... 60 V
Energy consumption max.	12 W
Baud rate	Copper cable: 10/1000Mbit/s
Transmission medium (communication/fieldbus)	Copper cable: Cat. 5e or higher, 100 m maximum cable length
Panel	2 x DIP switch: Alarm function power supplies
Indicators	Device: LED (PWR, RPS) green: Power supply (primary), redundant power supply (secondary); LED (ALM) red: Alarm; per port: LED (1000, LNK/ACT) green: Status 1000 Mbps, LNK/ACT Port 1 ... 16

Connection data

Connection technology: communication/fieldbus	Copper cable: 16 x RJ-45
Anschluss technik: Versorgung	1 x im Gerät verbaute Stiftleiste: 231-436/001-000; mitgelieferte Federleiste (Steckverbinder MCS): 2231-106/026-000

Geometrical Data

Width	50 mm / 1.969 inch
Height from upper-edge of DIN-35 rail	120 mm / 4.724 inch
Depth	162 mm / 6.378 inch

Mechanical data

Weight	840 g
Color	metallic black
Housing material	Aluminum
Conformity marking	CE

Environmental Requirements

Surrounding air (operating) temperature	-40 ... 70 °C
Surrounding air (storage) temperature	-40 ... 80 °C
Degree of protection	IP30
Relative air humidity (no condensation)	95 %
Type of mounting	DIN-35 rail
Vibration resistance	acc. to IEC 60068-2-6
Shock resistance	acc. to IEC 60068-2-27
EMC immunity to interference	acc. to EN 61000-6-2
EMC emission of interference	acc. to EN 61000-6-4

Commercial data

Country of origin	TW
GTIN	4055143604659
Customs Tariff No.	85176200000

Compatible products

power supply

	Item no.: 787-1102 Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current; DC OK signal	www.wago.com/787-1102
	Item no.: 787-1112 Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current; DC OK signal	www.wago.com/787-1112
	Item no.: 787-1122 Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 4 A output current; DC OK signal	www.wago.com/787-1122
	Item no.: 787-1602 Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 1 A output current; NEC Class 2; DC OK signal	www.wago.com/787-1602
	Item no.: 787-1606 Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 2 A output current; NEC Class 2; DC OK signal	www.wago.com/787-1606
	Item no.: 787-1622 Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost; DC OK contact	www.wago.com/787-1622
	Item no.: 787-1632 Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact	www.wago.com/787-1632
	Item no.: 787-1702 Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current	www.wago.com/787-1702
	Item no.: 787-1712 Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current	www.wago.com/787-1712
	Item no.: 787-1722 Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current	www.wago.com/787-1722

transfer module



Item no.: 289-195
Interface module for ETHERNET RJ-45; for DIN 35 rail; with shield connection

www.wago.com/289-195

wiring and connectors



Item no.: 750-976
PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly

www.wago.com/750-976



Item no.: 750-977/000-011
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22

www.wago.com/750-977/000-011



Item no.: 750-977/000-012
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22

www.wago.com/750-977/000-012



Item no.: 750-977/000-013
Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22

www.wago.com/750-977/000-013



Item no.: 750-977/000-021
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24

www.wago.com/750-977/000-021



Item no.: 750-977/000-022
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24

www.wago.com/750-977/000-022



Item no.: 750-978/000-011
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief

www.wago.com/750-978/000-011



Item no.: 750-978/000-012
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief

www.wago.com/750-978/000-012



Item no.: 750-978/000-013
Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief

www.wago.com/750-978/000-013



Item no.: 750-978/000-021
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief

www.wago.com/750-978/000-021



Item no.: 750-978/000-022
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief

www.wago.com/750-978/000-022



Item no.: 750-979/000-011
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief

www.wago.com/750-979/000-011



Item no.: 750-979/000-012
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief

www.wago.com/750-979/000-012



Item no.: 750-979/000-013
 Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief

www.wago.com/750-979/000-013



Item no.: 750-979/000-021
 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief

www.wago.com/750-979/000-021



Item no.: 750-979/000-022
 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief

www.wago.com/750-979/000-022

Downloads Documentation

Manual

16-Port 1000BASE-T Industrial Switch	Mar 29, 2017	1.3 MB	Download
--------------------------------------	--------------	--------	--------------------------

Bid Text

852-1106	Nov 3, 2017	DOC 30.2 kB	Download
----------	-------------	----------------	--------------------------

Additional Information

Disposal; Electrical and electronic equipment, Packaging	Oct 15, 2018	265.8 kB	Download
--	--------------	----------	--------------------------

System Description

Industrial Switches - General Product Information	Jun 6, 2017	514.9 kB	Download
---	-------------	----------	--------------------------

smartDATA

CAD data

3D Download 852-1106	URL	Download
----------------------	-----	--------------------------

Subject to changes.

WAGO Kontakttechnik GmbH & Co. KG
 Hansastr. 27
 32423 Minden
 Phone: +49571 887-0 | Fax: +49571 887-169
 Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
 We are always happy to take your call at +49 (571) 887-44222.



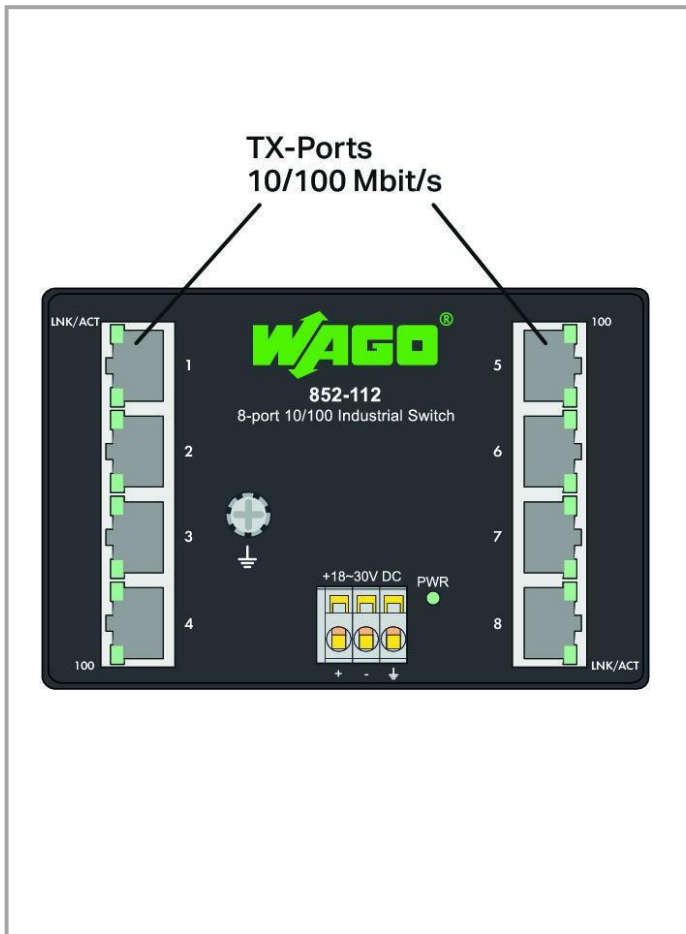
RoHS 
Compliant

BOMcheck.net

Color: 



- LED 1: Versorgungsspannung
- LED 2: T-Port 100 Mbit/s
- LED 3: LNK/ACT
- 4: 8 x RJ-45
(10/100BASE-TX-Ports)



Item description

The 852-112 is an 8-port 10/100Base-TX industrial ETHERNET switch supporting Auto-Negotiation and Auto-MDI-/MDI-X detection for each port.

The 852-112 is a cost-effective solution to keep up with the constant demands for emerging IP-based industry communication needs.

The switch is easy to configure and install and is best suited for small to medium-sized networks.

Features:

- 8 ETHERNET ports, 10/100 Mbps autonegotiation
- Front-panel diagnostic LEDs
- Supports Auto-MDI/MDI-X functions
- Full/half-duplex transfer modes for each port
- Store-and-forward switching method
- Integrated address look-up table, supports 2000 absolute MAC addresses
- Overvoltage protection
- IEEE 802.3x flow control in full-duplex mode
- DIN-35 rail mounting

Data

Technical Data

Switchingmodus	Store-and-forward, non-blocking
Number of 100Base-TX ports	8
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x Flow Control
MAC table (large)	2000 addresses
Jumbo frame size	1536 Byte
Supply voltage	DC 18 ... 30 V
Energy consumption max.	3 W
Baud rate	Copper cable: 10/100Mbit/s
Übertragungsmedium (Kommunikation/Feldbus)	Copper cable: Cat. 5 or higher, 100 m maximum cable length
Topology	Star
Indicators	Device: LED (PWR) green: Power supply; per port: LED (100, LNK /ACT) green: status 100 Mbps, LNK/ACT port 1 ... 8

Connection data

Anschluss technik: Kommunikation/Feldbus	Copper cable: 8 x RJ-45
Anschluss technik: Versorgung	1 x im Gerät verbaute Leiterplattenklemme: 739-103

Geometrical Data

Width	109.2 mm / 4.299 inch
Height from upper-edge of DIN-35 rail	32 mm / 1.26 inch
Depth	73.8 mm / 2.906 inch

Mechanical data

Weight	415 g
Color	black
Housing material	Sheet steel

Environmental Requirements

Surrounding air (operating) temperature	-40 ... 70 °C
Surrounding air (storage) temperature	-40 ... 80 °C
Degree of protection	IP30
Relative air humidity (no condensation)	95 %
Type of mounting	DIN-35 rail
Vibration resistance	acc. to IEC 60068-2-6
Shock resistance	acc. to IEC 60068-2-27

Commercial data

Country of origin	TW
GTIN	4045454847586
Customs Tariff No.	85176200000
Product Group	27 (Special components I/O)

Compatible products

power supply

	Item no.: 787-1102 Switched-mode power supply; EPSITRON® COMPACT Power; 1-phase; 24 VDC output voltage; 1.3 A output current; DC OK signal	www.wago.com/787-1102
	Item no.: 787-1112 Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current; DC OK signal	www.wago.com/787-1112
	Item no.: 787-1122 Switched-mode power supply; EPSITRON® COMPACT Power; 1-phase; 24 VDC output voltage; 4 A output current; DC OK signal	www.wago.com/787-1122
	Item no.: 787-1226 Switched-mode power supply; EPSITRON® COMPACT Power; 1-phase; 24 VDC output voltage; 6 A output current	www.wago.com/787-1226
	Item no.: 787-1702 Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current	www.wago.com/787-1702
	Item no.: 787-1712 Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current	www.wago.com/787-1712
	Item no.: 787-1722 Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current	www.wago.com/787-1722

transfer module

	Item no.: 289-172 Interface module for ETHERNET RJ-45	www.wago.com/289-172
	Item no.: 289-175 Interface module for ETHERNET RJ-45	www.wago.com/289-175
	Item no.: 289-195 Interface module for ETHERNET RJ-45; for DIN 35 rail; with shield connection	www.wago.com/289-195
	Item no.: 289-196 Interface module with RJ-45 connectors; CAGE CLAMP® CONNECTION; with LED; Fused	www.wago.com/289-196

wiring and connectors

	Item no.: 750-975 ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly	www.wago.com/750-975
	Item no.: 750-976 PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly	www.wago.com/750-976

	Item no.: 750-977/000-011 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22	www.wago.com/750-977/000-011
	Item no.: 750-977/000-012 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22	www.wago.com/750-977/000-012
	Item no.: 750-977/000-013 Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22	www.wago.com/750-977/000-013
	Item no.: 750-977/000-021 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24	www.wago.com/750-977/000-021
	Item no.: 750-977/000-022 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24	www.wago.com/750-977/000-022
	Item no.: 750-978/000-011 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief	www.wago.com/750-978/000-011
	Item no.: 750-978/000-012 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief	www.wago.com/750-978/000-012
	Item no.: 750-978/000-013 Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief	www.wago.com/750-978/000-013
	Item no.: 750-978/000-021 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief	www.wago.com/750-978/000-021
	Item no.: 750-978/000-022 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief	www.wago.com/750-978/000-022
	Item no.: 750-979/000-011 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief	www.wago.com/750-979/000-011
	Item no.: 750-979/000-012 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief	www.wago.com/750-979/000-012
	Item no.: 750-979/000-013 Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief	www.wago.com/750-979/000-013
	Item no.: 750-979/000-021 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief	www.wago.com/750-979/000-021
	Item no.: 750-979/000-022 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief	www.wago.com/750-979/000-022



Downloads

Documentation

Manual

8-Port 100BASE-TX Industrial ECO Switch	Aug 2, 2011	811.7 kB	Download
---	-------------	----------	----------

Bid Text

852-112 Switche	Jan 21, 2016	DOC 27.6 kB	Download
--------------------	--------------	----------------	----------

Instruction Leaflet

Operating and assembly instructions 852-111 / 852-112	May 8, 2014	PDF 1.7 MB	Download
---	-------------	---------------	----------

Installation manual

Operating and assembly instructions 852-111 / 852-112	May 8, 2014	PDF 1.7 MB	Download
---	-------------	---------------	----------

Additional Information

Disposal; Electrical and electronic equipment, Packaging	Oct 15, 2018	265.8 kB	Download
--	--------------	----------	----------

System Description

Industrial Switches - General Product Information	Jun 6, 2017	514.9 kB	Download
---	-------------	----------	----------

smartDATA

CAD data

3D Download 852-112	URL	Download
---------------------	-----	----------

Subject to changes.



■ Features :

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- NEC class 2 / LPS compliant
- Built in DC OK active signal
- LED indicator for power on
- No load power consumption<0.75W
- 100% full load burn-in test
- 3 years warranty

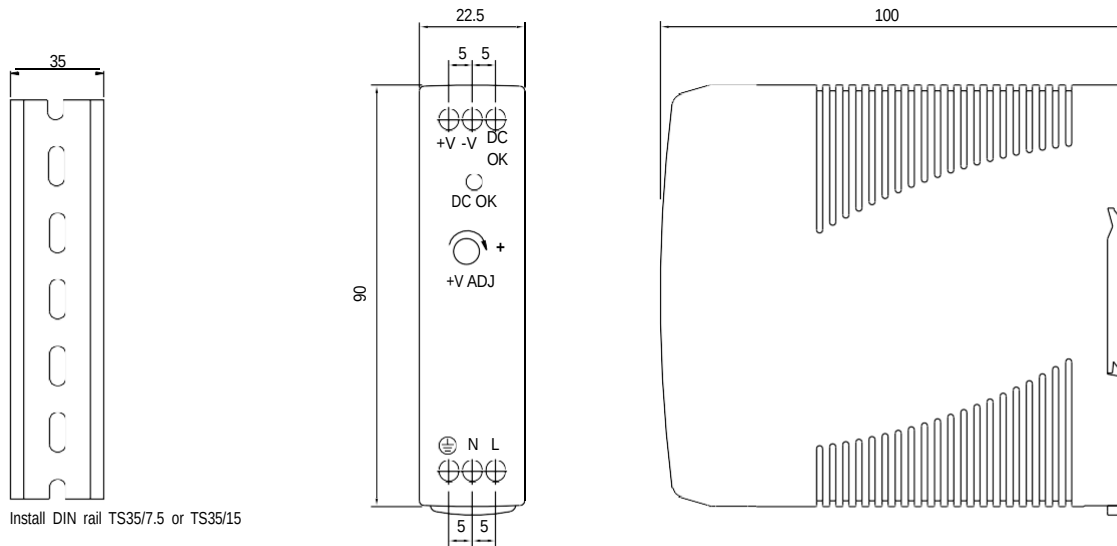


SPECIFICATION

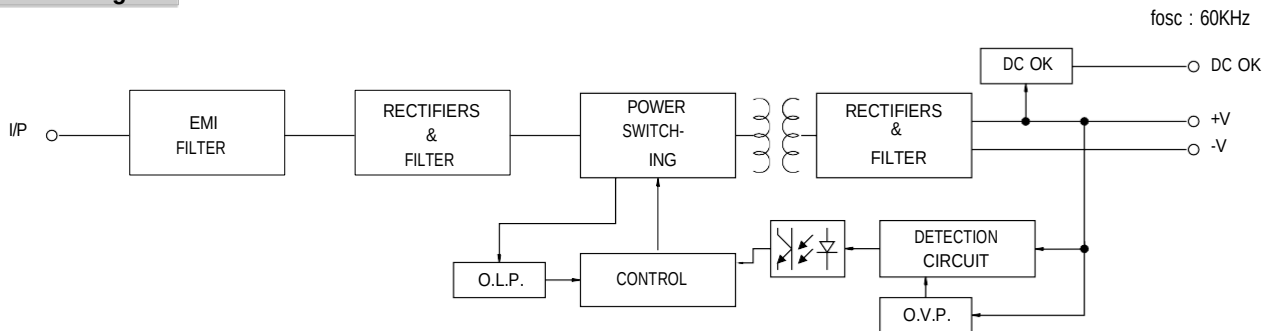
MODEL		MDR-20-5	MDR-20-12	MDR-20-15	MDR-20-24
OUTPUT	DC VOLTAGE	5V	12V	15V	24V
	RATED CURRENT	3A	1.67A	1.34A	1A
	CURRENT RANGE	0 ~ 3A	0 ~ 1.67A	0 ~ 1.34A	0 ~ 1A
	RATED POWER	15W	20W	20W	24W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME Note.5	500ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load			
HOLD UP TIME (Typ.)	50ms/230VAC 20ms/115VAC at full load				
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	76%	80%	81%	84%
	AC CURRENT (Typ.)	0.55A/115VAC 0.35A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC 40A/230VAC			
	LEAKAGE CURRENT	<1mA / 240VAC			
PROTECTION	OVERLOAD	105 ~ 160% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed			
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V
FUNCTION	DC OK ACTIVE SIGNAL (max.)	3.75 ~ 6V / 50mA	9 ~ 13.5V / 40mA	11.5 ~ 16.5V / 40mA	18 ~ 27V / 20mA
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to output load derating curve)			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)			
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, TUV EN60950-1 approved, NEC class 2 / LPS compliant			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC			
	EMI CONDUCTION & RADIATION	Compliance to EN55011,EN55022 (CISPR22), EN61204-3 Class B			
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3			
	EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024,EN61000-6-1,EN61204-3, light industry level, criteria A			
OTHERS	MTBF	236.9K hrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	22.5*90*100mm (W*H*D)			
	PACKING	0.19Kg; 72pcs/14.7Kg/0.91CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.				

Mechanical Specification

Case No. 956 Unit:mm

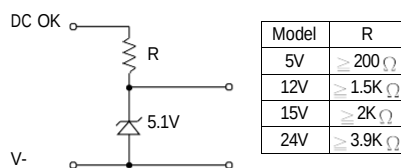


Block Diagram

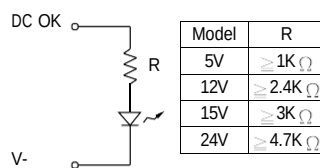


Application of DC OK Active Signal

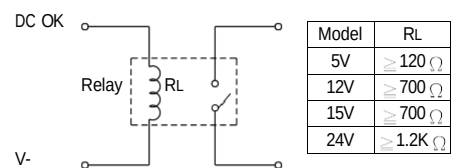
(a) 5V signal



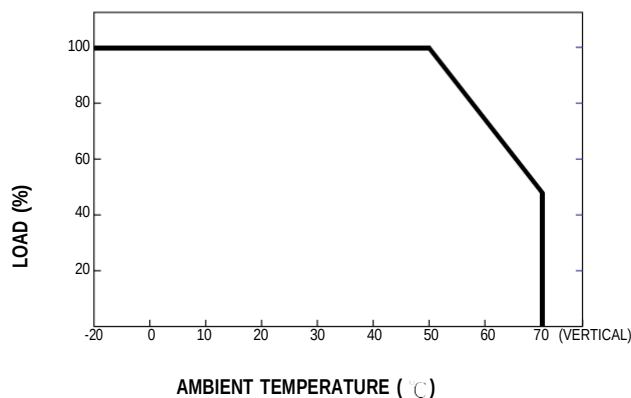
(b) LED



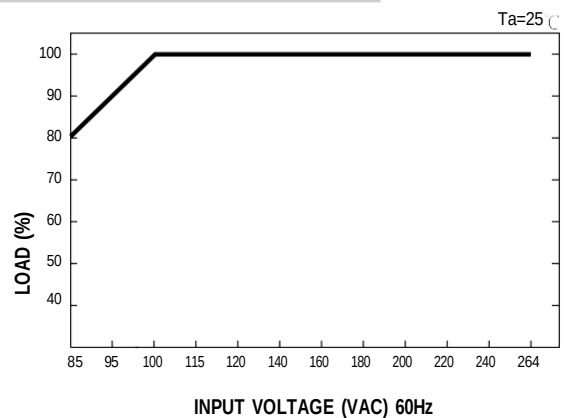
(c) Relay



Derating Curve



Output Derating VS Input Voltage





■ Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 years warranty

■ Description

NDR-75 is one economical slim 75W Din rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 32mm in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 90VAC to 264VAC and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current.

NDR-75 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 89%, the entire series can operate at the ambient temperature between -20°C and 70°C under air convection. It is equipped with constant current mode for over-load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus (UL508, TUV EN60950-1, and etc.) make NDR-75 a very competitive power supply solution for industrial applications.

■ Model Encoding

NDR - 75 - 12

Output voltage

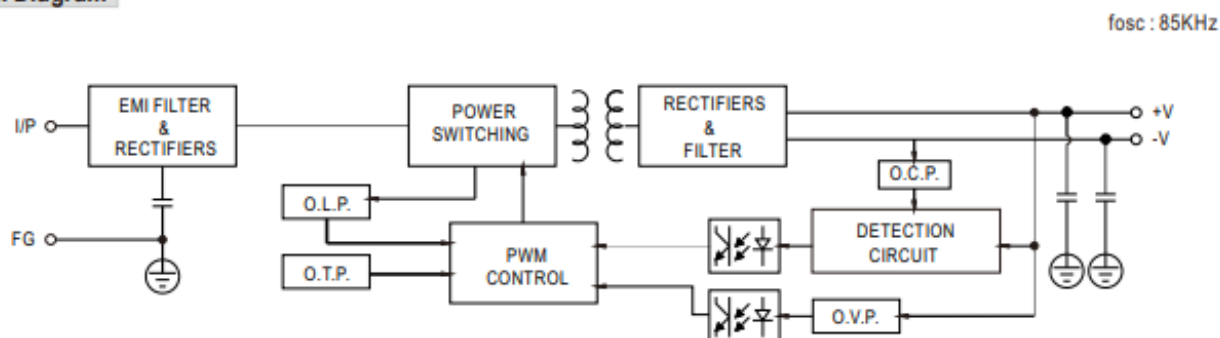
Output wattage

Series name

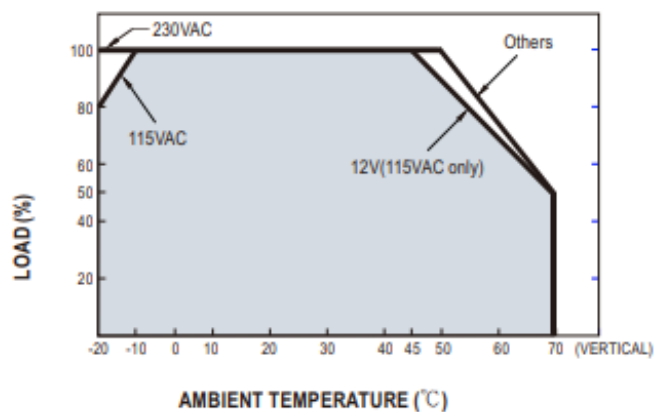
SPECIFICATION

MODEL		NDR-75-12		NDR-75-24		NDR-75-48	
OUTPUT	DC VOLTAGE	12V		24V		48V	
	RATED CURRENT	6.3A		3.2A		1.6A	
	CURRENT RANGE	0 ~ 6.3A		0 ~ 3.2A		0 ~ 1.6A	
	RATED POWER	75.6W		76.8W		76.8W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p		120mVp-p		150mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 14V		24 ~ 28V		48 ~ 55V	
	VOLTAGE TOLERANCE Note.3	±2.0%		±1.0%		±1.0%	
	LINE REGULATION	±0.5%		±0.5%		±0.5%	
	LOAD REGULATION	±1.0%		±1.0%		±1.0%	
	SETUP, RISE TIME	1200ms, 60ms/230VAC 2000ms, 60ms/115VAC at full load					
	HOLD UP TIME (Typ.)	60ms/230VAC 12ms/115VAC at full load					
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	85.5%		88%		89%	
	AC CURRENT (Typ.)	1.45A/115VAC 0.9A/230VAC					
	INRUSH CURRENT (Typ.)	20A/115VAC 35A/230VAC					
	LEAKAGE CURRENT	<1mA / 240VAC					
PROTECTION	OVERLOAD	105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed					
	OVER VOLTAGE	14 ~ 17V		29 ~ 33V		56 ~ 65V	
		Protection type : Shut down o/p voltage, re-power on to recover					
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover					
ENVIRONMENT	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)					
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6					
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, TUV EN60950-1 approved;(meet EN60204-1)					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH					
	EMC EMISSION	Compliance to EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A					
OTHERS	MTBF	486.2K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	32*125.2*102mm (W*H*D)					
	PACKING	0.51Kg; 28pcs/15.3Kg/1.22CUFT					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 6. Derating may be needed under low input voltage. Please check the derating curve for more details.						

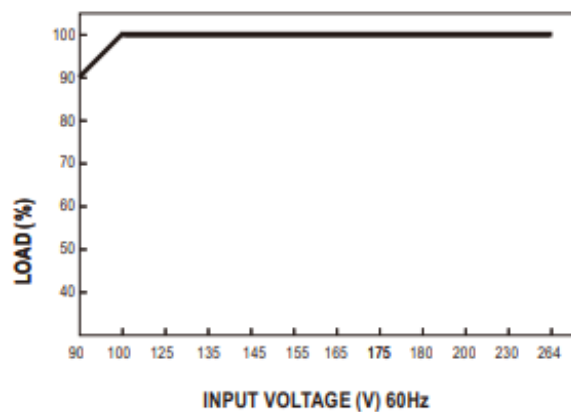
Block Diagram



Derating Curve



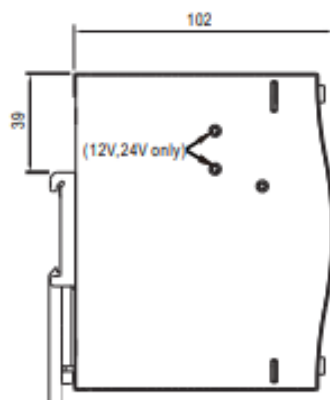
Static Characteristics



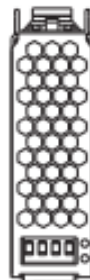
Mechanical Specification

Case No.221B

Unit:mm



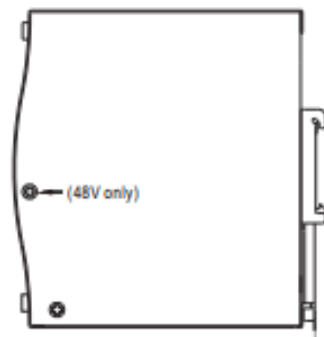
Side View



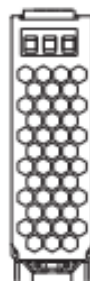
Top View



Front View



Side View



Bottom View

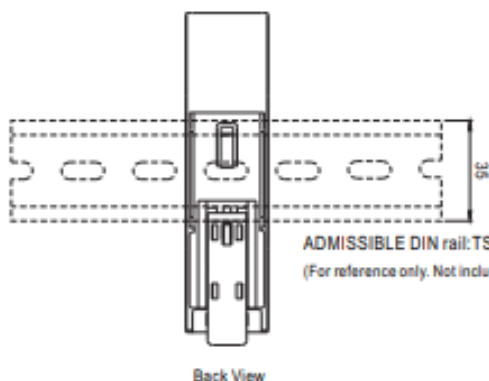
Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG
2	AC/N or DC -
3	AC/L or DC +

Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1,2	DC OUTPUT -V
3,4	DC OUTPUT +V

Installation Instruction



Back View

ADMISSIBLE DIN rail: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

This series fits DIN rail TS35/7.5 or TS35/15.
For installation details, please refer to the Instruction manual.

Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>

Power supply unit - UNO-PS/1AC/12DC/ 30W - 2902998

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid
(<http://phoenixcontact.com/download>)



Primary-switched UNO POWER power supply for DIN rail mounting, input: 1-phase, output: 12 V DC/30 W

Product Description

UNO POWER power supplies with basic functionality

Thanks to their high power density, compact UNO POWER power supplies are the ideal solution for loads up to 240 W, particularly in compact control boxes. The power supply units are available in various performance classes and overall widths. Their high degree of efficiency and low idling losses ensure a high level of energy efficiency.

Your advantages

- ✓ Flexible mounting by simply snapping onto the DIN rail
- ✓ More space in the control cabinet with up to 20 % higher power density
- ✓ Maximum energy efficiency, thanks to over 90 % efficiency and extremely low idling losses under 0.3 W
- ✓ Outdoor installation, thanks to the wide temperature range from -25°C to +70°C



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 728812
GTIN	4046356728812
Weight per Piece (excluding packing)	178.200 g
Custom tariff number	85044030
Country of origin	Poland

Technical data

Dimensions

Width	22.5 mm
Height	90 mm
Depth	84 mm

Ambient conditions

Degree of protection	IP20
----------------------	------

Power supply unit - UNO-PS/1AC/12DC/ 30W - 2902998

Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 70 °C (> 55 °C Derating: 2.5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Climatic class	3K3 (in acc. with EN 60721)
Degree of pollution	2

Input data

Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	85 V AC ... 264 V AC
Current consumption	0.8 A (100 V AC)
	0.4 A (240 V AC)
Nominal power consumption	71.7 VA
Inrush surge current	< 25 A (typical)
Mains buffering	typ. 20 ms (120 V AC)
	typ. 110 ms (230 V AC)
Input fuse	2 A (slow-blow, internal)
Choice of suitable circuit breakers	6 A ... 16 A (Characteristics B, C, D, K)
Power factor (cos phi)	0.48
Type of protection	Transient surge protection
Protective circuit/component	Varistor

Output data

Nominal output voltage	12 V DC ±1 %
Nominal output current (I _N)	2.5 A (-25 °C ... 55 °C)
Derating	55 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	yes
Feedback resistance	< 25 V DC
Protection against surge voltage on the output	≤ 25 V DC
Control deviation	< 1 % (change in load, static 10 % ... 90 %)
	< 3 % (Dynamic load change 10 % ... 90 %, 10 Hz)
	< 0.1 % (change in input voltage ±10 %)
Residual ripple	< 30 mV _{PP} (with nominal values)
Output power	30 W
Typical response time	< 1 s
Maximum power dissipation in no-load condition	< 0.3 W
Power loss nominal load max.	< 4.6 W

General

Net weight	0.15 kg
Efficiency	typ. 86 % (120 V AC)
	typ. 87 % (230 V AC)

Power supply unit - UNO-PS/1AC/12DC/ 30W - 2902998

Technical data

General

Insulation voltage input/output	4 kV AC (type test)
	3 kV AC (routine test)
Protection class	II (in closed control cabinet)
Degree of protection	IP20
MTBF (IEC 61709, SN 29500)	> 953000 h (40 °C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	alignable: 0 mm horizontally, 30 mm vertically

Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	8 mm
Screw thread	M3

Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	8 mm
Screw thread	M3

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise immunity	EN 61000-6-2:2005
Connection in acc. with standard	CUL
Standards/regulations	EN 61000-4-2
Contact discharge	4 kV (Test Level 2)
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 1 GHz
Test field strength	10 V/m
Frequency range	1.4 GHz ... 2 GHz
Test field strength	3 V/m
Standards/regulations	EN 61000-4-4

Power supply unit - UNO-PS/1AC/12DC/ 30W - 2902998

Technical data

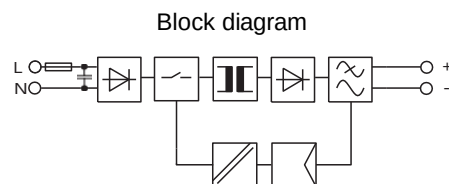
Standards and Regulations

Comments	Criterion B
Standards/regulations	EN 61000-6-3
	EN 61000-4-6
Frequency range	10 kHz ... 80 MHz
Voltage	10 V (Test Level 3)
Standards/regulations	EN 61000-4-11
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Standard - Safety of transformers	EN 61558-2-16
Standard - Electrical safety	IEC 60950-1/VDE 0805 (SELV)
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard – Safety extra-low voltage	IEC 60950-1 (SELV) and EN 60204-1 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
Standard – Limitation of mains harmonic currents	EN 61000-3-2
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950-1
	UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location)
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	< 15 Hz, amplitude ± 2.5 mm (according to IEC 60068-2-6)
	15 Hz ... 150 Hz, 2.3g, 90 min.
Approval - requirement of the semiconductor industry with regard to mains voltage dips	EN 61000-4-11
Information technology equipment - safety (CB scheme)	CB Scheme

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings



Classifications

eCl@ss

eCl@ss 4.0	27040702
------------	----------

Power supply unit - UNO-PS/1AC/12DC/ 30W - 2902998

Classifications

eCl@ss

eCl@ss 4.1	27040702
eCl@ss 5.0	27049002
eCl@ss 5.1	27049000
eCl@ss 6.0	27049000
eCl@ss 7.0	27049002
eCl@ss 8.0	27049002
eCl@ss 9.0	27040701

ETIM

ETIM 3.0	EC001039
ETIM 4.0	EC000599
ETIM 5.0	EC002540
ETIM 6.0	EC002540

UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004

Approvals

Approvals

Approvals

UL Listed / UL Recognized / cUL Recognized / IECCE CB Scheme / cUL Listed / EAC / EAC / cULus Recognized / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 123528
-----------	---	---	---------------

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 214596
---------------	---	---	---------------

Power supply unit - UNO-PS/1AC/12DC/ 30W - 2902998

Approvals

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 214596
IECEE CB Scheme		http://www.iecee.org/	DK-30305-A3-M1-UL
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 123528
EAC			EAC-Zulassung
EAC			RUC- DE.A*30.B.01082
cULus Recognized			
cULus Listed			

Accessories

Accessories

Device circuit breakers

Electronic device circuit breaker - CBMC E4 24DC/1-4A NO - 2906031



Multi-channel electronic device circuit breaker for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.

Power supply unit - UNO-PS/1AC/12DC/ 30W - 2902998

Accessories

Electronic device circuit breaker - CBMC E4 24DC/1-10A NO - 2906032



Multi-channel electronic device circuit breaker for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.

Device protection

Type 3 surge protection device - PLT-SEC-T3-230-FM-UT - 2907919



Type 2/3 surge protection, consisting of protective plug and base element, with integrated status indicator and remote signaling for single-phase power supply networks. Nominal voltage 230 V AC/DC.

Type 3 surge protection device - PLT-SEC-T3-24-FM-UT - 2907916



Type 3 surge protection, consisting of protective plug and base element, with integrated status indicator and remote signaling for single-phase power supply networks. Nominal voltage 24 V AC/DC.

Redundancy module

Redundancy module - UNO-DIODE/5-24DC/2X10/1X20 - 2905489



Redundancy module, 5 V - 24 V DC, 2 x 10 A, 1 x 20 A.