

Industrial Motors
Commercial &
Appliance Motors
Automation
Digital &
Systems
Energy
Transmission &
Distribution
Coatings

TTW01-QD

Flexibility and
safety in electric
energy distribution
for your business



Driving efficiency and sustainability





S U M M A R Y

Introduction	04
Testing	06
Applications	07
General characteristics	08
Construction features	09
Preparation and topcoat	10
Portfolio	11
General requirements	11
Overview of the TTW01-QD boards	12
Overview of mechanical kits, cables, busbars and accessories	15
TTW configurator	20
Technical characteristics	21
Dimensions	22



TTWO1



WEG

TTWO1



TTWO1 WEG

TTWO1 WEG



Distribution boards with guaranteed performance increase the quality of your installations.



FLEXIBILITY AND SAFETY

IN ELECTRICAL DISTRIBUTION FOR YOUR BUSINESS

Designed for all kinds of requirements, the TTW01-QD distribution boards are available in surface-mount and flush-mount versions and currents up to 630 A. Safety, robustness, flexibility and convenience are characteristics that define the design of these boards. They are manufactured in accordance with the requirements of IEC 61439-1/2/3 standard.



Benefits



Simplified installation and operations



Unique reliability of type-tested assemblies



Robust and compact frame



In compliance with the applicable safety standards

Testing

To ensure safety, performance and reliability, electrical panels must be subjected to type and routine testing, according to the guidelines of IEC 61439-1/2/3 standard. Type tests, which are carried out by the original manufacturer and are mostly destructive, check the structure and performance of the panel. Routine tests, which are carried out by the panel builder after the assembly, check that the panel meets the requirements established in the design.

Type tests

No.	Characteristic to be checked
1	Resistance of materials and parts: - Corrosion resistance
	Properties of the insulating materials: - Thermal stability - Resistance of the insulating material against abnormal heat and fire due to the internal electrical effects
	Resistance to ultraviolet radiation (UV)
	Lifting
	Mechanical impact
	Marking
2	Enclosure protection rating
3	Clearance distances
4	Creepage distances
5	Protection against electric shock and integrity of the protection circuits: - Effective continuity between exposed conductive parts of the ASSEMBLY and the protection circuit - Short circuit withstand capacity of the protection circuit
6	Switchgear and component integration
7	Internal electrical circuits and connections
8	Terminals for external conductors
9	Dielectric properties: - Withstand voltage at industrial frequency - Impulse withstand voltage
10	Temperature rise limits
11	Short circuit withstand capacity
12	Electromagnetic Compatibility (EMC)
13	Mechanical operation

Routine tests

No.	Characteristic to be checked	
1	Construction	Protection rating check
		Clearance and creepage distances
		Protections against electric shock and integrity of the protection circuits
2	Protection	Built-in component integration
		Internal electrical circuits and connections
		Terminals for external conductors
		Mechanical operation
3	Electrical	Dielectric properties
		Cabling, operating performance and function

Applications

With innovative technology and modern design, the TTW01-QD is ideal for your requirements. Its flexible design allows assemblies that meet a great variety of electrical systems requirements.



TTW01-QD has a special offer for environments that need antimicrobial protection: painting with White NobaC® topcoat. Ideal for hospitals, schools and other places that need to reduce costs and risks enerated by infections or cross-contamination caused by microbes and bacteria.

General characteristics

Performance assurance

- Standardized metallic boards, allowing faster mounting and greater robustness in handling and maintenance
- The boards are tested with load in order to assess their thermal performance and heat dissipation capacity
- Short circuit tests ensure the operation safety of the boards, preventing the exposure of people to risks during an abnormality in the electric operation
- Removable flanges on top and bottom of the board simplify the execution of entry and exit of cables, conduits and cable trays, helping to organize and keep the internal space well used

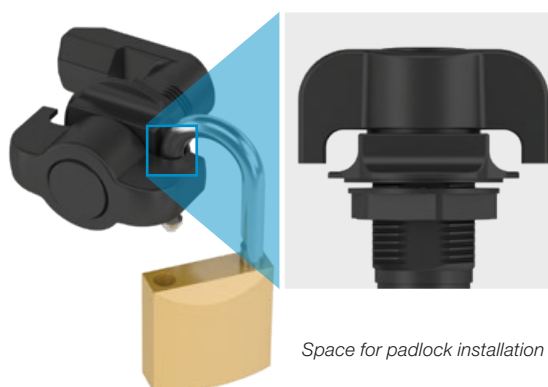
The TTW01-QD is entirely designed in Brazil.



All boards fully meet the requirements of **IEC 61439-1/2/3** standard

Flexible and fast assembly

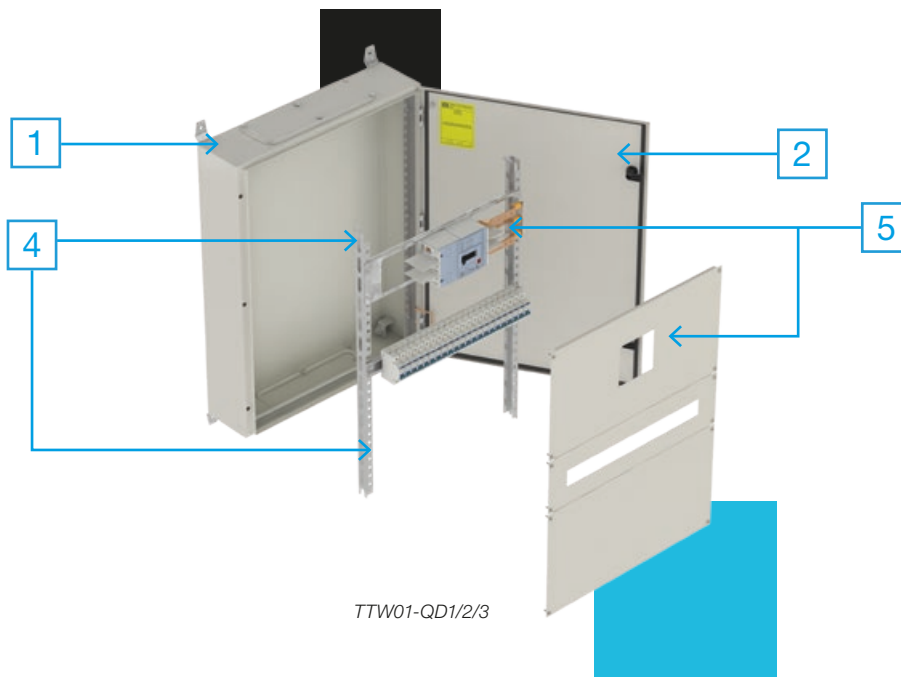
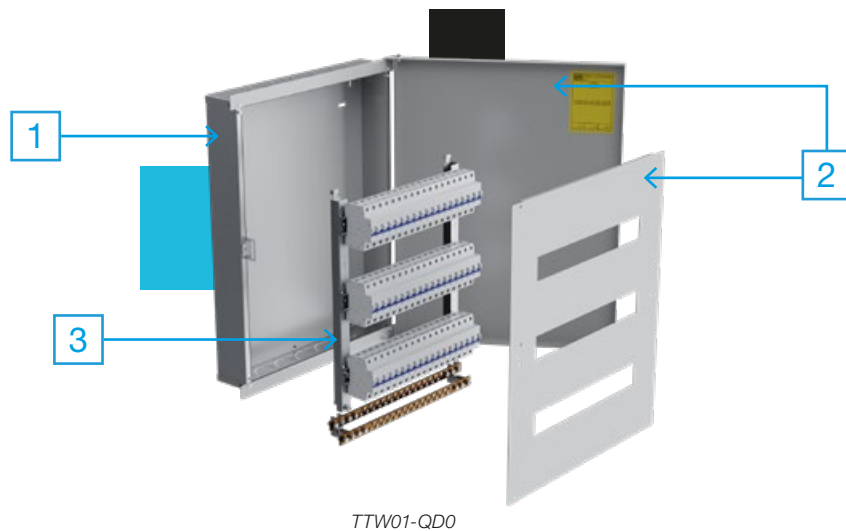
- Boards in different sizes and depths
- Modularity and interchangeability of assembly kits among TTW01-QD electrical panels
- Wide range of mounting kits, allowing a great variety of arrangements
- Assembly kits made of galvanized steel sheets
- Mobile racks that allow assembling the components out of the board. Such characteristic allows the board frame to go to the customer/site, while the panel builder installs the electric components on the rack. Completed that task, it is just necessary to install the rack on the board already sent to the site
- **Casters that allow moving the assembly rack, simplifying the installation of incoming and outgoing cables**
- TTW QD configurator that allows quick sizing and definition of all parts that compose the board
- Fast replacement or complement of board pieces and parts
- Versatility for special assemblies, when not using standardized kits by using blank mounting plates
- **Latches that can fit a padlock to lock the board door**



Construction features

The TTW01-QD was designed to be supplied in modular kits that can be classified as follows:

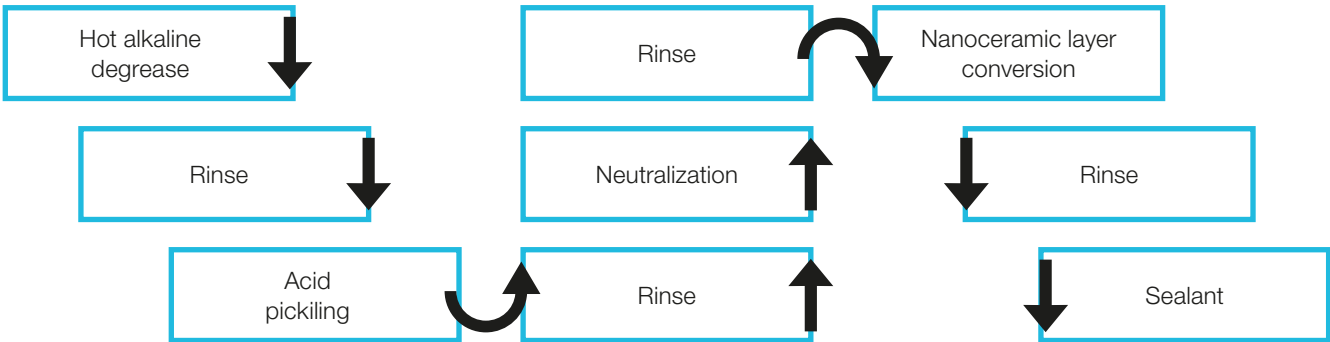
- 1** Frame for flush-mount or surface-mount
- 2** Door and cover plate with finishing accessories
- 3** Removable rack with DIN rails for installation of the modular line (MDW, SPW, RDW)
- 4** Removable rack for installing mechanical kits
- 5** Mechanical kit for installation of electrical equipment



Preparation and topcoat

The high quality and very durable coating of WEG panels and boards are the result of the continuous development of supplies in industrial areas with different environmental characteristics. The steel sheet treatment process uses tricationic phosphate (formula based on zinc, nickel and manganese salt phosphates), ensuring high corrosion resistance and excellent adhesion to the topcoat. The 80 µm thick light gray RAL 7035 polyester powder topcoat is applied in an electrostatic process. The treatment and coating of the metal plates follow the sequence below:

Executed within strict quality control, it follows the procedure:



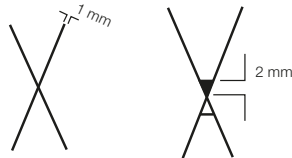
The quality, strength and durability of the coating are guaranteed by the following tests:

Performance characteristics		
Description	Testing reference and standard	Acceptance criteria evaluated
Adhesion degree	ASTM D 3359 - 97	X1Y1 ¹⁾
Salt spray resistance	ASTM B117	500 hours
Resistance to SO ₂	DIN 50018	15 cycles / 24 hours
Resistance to immersion in distilled water	ASTM D870	24 hours
Resistance to UV-A	ASTM D4587	500 hours

Note: 1) Adhesion test acceptance criteria. Such criteria apply to coatings thicker than 70 µm. After placing a piece of adhesive tape on the structure to be tested, two "X" cuts must be made. The expected results for the coating approval are:

X1 = Cut in "X" with maximum 1 mm wide coating spacing.

Y1 = Paint detachment from 1 to 2 mm on one or both sides of the intersection.



Topcoat

Description	Finish color	Surface treatment	Minimum thickness of the coat	Coating type
Frames with coating	Microtextured gray RAL 7035	Phosphate coating chemical process	80 µm	Polyester powder by electrostatic process
	Textured gray RAL 7032			
	Textured gray Munsell N6.5			
	Smooth white Munsell N9.5			
	Textured white RAL 9003			
	Smooth Nobac Munsell N9.5 (antimicrobial)			
Frames without coating	-	Galvanized plates	-	-

Offer portfolio

2 basics boards types are available:

- TTW01-QD0 - Up to 125 A. Dedicated installation of miniature circuit breakers and the entire modular line with DIN rail mounting, for example, MDW, MDWH, SPW, RDW, etc.
- TTW01-QD1, 2 and 3 - Up to 630 A. Mechanical kits for various assemblies using the entire WEG control and protection line.
- Flush-mount and surface-mount boards in different sizes according to the table below:

Model ¹⁾	Mounting	Number of poles ¹⁾	Color availability ²⁾³⁾	Internal dimensions H x W x D (mm)
TTW01-QD0-2L-E	Flush-mount	36 (2L x 18P)	Gray RAL 7035 Gray RAL 7032 Gray Munsell N6.5 Smooth White Munsell N9.5 White RAL 9003 Smooth White Nobac Munsell N9.5	450 x 450 x 85
TTW01-QD0-3L-E	Flush-mount	54 (3L x 18P)		600 x 450 x 85
TTW01-QD0-4L-E	Flush-mount	72 (4L x 18P)		750 x 450 x 85
TTW01-QD0-5L-E	Flush-mount	120 (5L x 24P)		900 x 600 x 85
TTW01-QD0-7L-E	Flush-mount	168 (7L x 24P)		1,200 x 600 x 85
TTW01-QD1AE	Flush-mount	72 (3L x 24P)		500 x 600 x 150
TTW01-QD1BE	Flush-mount	120 (5L x 24P)		800 x 600 x 150
TTW01-QD1CE	Flush-mount	168 (7L x 24P)		1,100 x 600 x 150
TTW01-QD0-2L-S	Surface-mount	36 (2L x 18P)		450 x 450 x 85
TTW01-QD0-3L-S	Surface-mount	54 (3L x 18P)		600 x 450 x 85
TTW01-QD0-4L-S	Surface-mount	72 (4L x 18P)		750 x 450 x 85
TTW01-QD0-5L-S	Surface-mount	120 (5L x 24P)		900 x 600 x 85
TTW01-QD0-7L-S	Surface-mount	168 (7L x 24P)		1,200 x 600 x 85
TTW01-QD1AS	Surface-mount	72 (3L x 24P)		500 x 600 x 150
TTW01-QD1BS	Surface-mount	120 (5L x 24P)		800 x 600 x 150
TTW01-QD1CS	Surface-mount	168 (7L x 24P)		1,100 x 600 x 150
TTW01-QD2BS	Surface-mount	120 (5L x 24P)		800 x 600 x 250
TTW01-QD2CS	Surface-mount	168 (7L x 24P)		1,100 x 600 x 250
TTW01-QD2DS	Surface-mount	216 (9L x 24P)		1,400 x 600 x 250
TTW01-QD3CS	Surface-mount	245 (7L x 35P)		1,100 x 800 x 350
TTW01-QD3DS	Surface-mount	315 (9L x 35P)	1,400 x 800 x 350	

Notes: 1) L = line for horizontal assembly of the modular family (MDW, MDWH, SPW, DRW etc.);
P = Pole = width equivalent to 18 mm.

2) TTW01-QD0 board model come in the standard smooth color Munsell White N9.5.

TTW01-QD1/2/3 board models come in standard Gray RAL 7035.

Other colors available are optional.

White Munsell N9.5 optional only for TTW01-QD0.

White RAL 9003 optional only for TTW01-QD1/2/3.

3) Check the enclosure color availability according to the following tables.

General requirements

The table below lists the general requirements for sizing a TTW01-QD board:

Requirements	QD0	QD1	QD2	QD3
Maximum number of poles (modular line - MDW, MDWH, SPW, RDW etc.)	168	168	216	315
Maximum rated current (In)	125 A	250 A	400 A	630 A
Application of the modular line (MDW, MDWH, SPW, RDW etc.)	Yes	Yes	Yes	Yes
Application of the modular line and molded case circuit breakers (MDW, MDWH, SPW, RDW, DWB and AGW)	No	Yes	Yes	Yes
Special assemblies on mounting plates	No	Yes	Yes	Yes
Installation of pushbuttons, selectors and pilot lights on the door (CSW)	No	No	Yes	Yes

Overview of TTW01-QD panels

Complete boards

The complete TTW01-QD distribution boards are supplied with a frame, rack, cover plates, door and door grounding cable.

Full board supply:
structure + rack + door



TTW01-QD1/2/3



Description	Mounting	Number of poles	Internal dimensions (mm)			Topcoat ³⁾					
			Height	Width	Depth	GRAY RAL-7035 ³⁾	GRAY RAL-7032	GRAY MUNSELL N6.5	SMOOTH WHITE MUNSELL N9.5 ³⁾	WHITE RAL-9003	SMOOTH WHITE NOBAC MUNSELL N9.5
Full QD0 board - 2 lines	Flush-mount	36	450	450	85	14910591	14918685	14918686	14918687	-	14918748
Full QD0 board - 3 lines	Flush-mount	54	600	450	85	14910597	14918749	14918750	14918751	-	14918753
Full QD0 board - 4 lines	Flush-mount	72	750	450	85	14910699	14918754	14918755	14918756	-	14918757
Full QD0 board - 5 lines	Flush-mount	120	900	600	85	16010593	16010547	16010728	16010215	-	16010677
Full QD0 board - 7 lines	Flush-mount	168	1,200	600	85	16010627	16010774	16010955	16010827	-	16010753
Full board - QD1A	Flush-mount	72	500	600	150	14033629	14033627	14033633	-	12260990	14033631
Full board - QD1B	Flush-mount	120	800	600	150	14033637	14033635	14033641	-	12260999	14033639
Full board - QD1C	Flush-mount	168	1,100	600	150	14033645	14033643	14033648	-	12261001	14033647
Full board QD0 - 2 lines	Surface-mount	36	450	450	85	14910944	14918768	14918769	14918770	-	14918771
Full board QD0 - 3 lines	Surface-mount	54	600	450	85	14911186	14918772	14918773	14918774	-	14918775
Full board QD0 - 4 lines	Surface-mount	72	750	450	85	14911251	14918776	14918682	14918778	-	14918779
Full board QD0 - 5 lines	Surface-mount	120	900	600	85	16011103	16010767	16010891	16011015	-	16011073
Full board QD0 - 7 lines	Surface-mount	168	1,200	600	85	16012368	16012360	16012349	16012370	-	16012307
Full board - QD1A	Surface-mount	72	500	600	150	14033719	12958713	14033723	-	12260994	14033721
Full board - QD1B	Surface-mount	120	800	600	150	14033724	12958958	14033728	-	12261000	14033726
Full board - QD1C	Surface-mount	168	1,100	600	150	14033730	12959099	14033734	-	12261005	14033732
Full board - QD2B	Surface-mount	120	800	600	250	14033685	12960335	14033700	-	12505545	14033698
Full board - QD2C	Surface-mount	168	1,100	600	250	14033702	12960382	14033706	-	12505546	14033704
Full board - QD2D	Surface-mount	216	1,400	600	250	15961652	15961367	15961677	-	15961716	15961653
Full board - QD3C	Surface-mount	245	1,100	800	350	14033654	12505668	14033658	-	14033652	14033656
Full board - QD3D	Surface-mount	315	1,400	800	350	15961945	15961852	15961787	-	15961931	15961919

Notes: 1) Full board = frame + rack + door.

2) For construction details, refer to the product manual.

3) TTW01-QD0 board models come in the standard Smooth White Munsell N9.5.

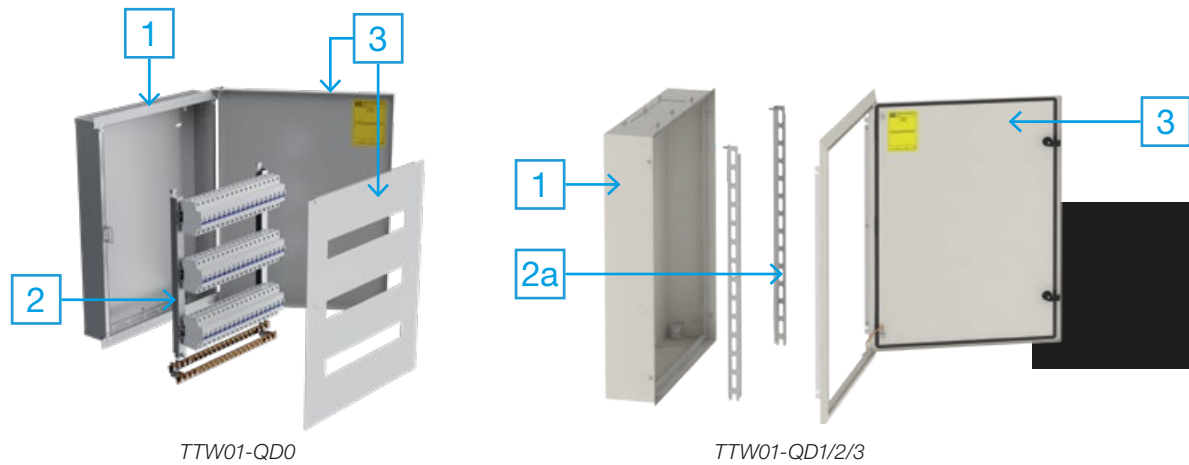
TTW01-QD1/2/3 board models come in standard Gray RAL 7035.

Other colors available are optional.

Overview of TTW01-QD boards

Partial boards

The TTW01-QD partial distribution boards are delivered disassembled and in individual items. Frame, rack and door supplied separately.



Supply of size 1 board separated in the parts: (1) Frame, (2) Rack and (3) Door

1	Frame
2	Rack with DIN rail
2a	Rack for installing mechanical kits
3	Door (for TTW01-QD0, the cover plate is supplied with the door)

Description	Mounting	Topcoat						
		GRAY RAL-7035 ²⁾	GRAY RAL-7032	GRAY MUNSELL N6.5	SMOOTH WHITE MUNSELL N9.5 ²⁾	WHITE RAL-9003	SMOOTH WHITE NOBAC MUNSELL N9.5	GALVANIZED
QD0 Frame - 2 lines	Flush-mount	-	-	-	-	-	-	14911331
QD0 Frame - 3 lines	Flush-mount	-	-	-	-	-	-	14911335
QD0 Frame - 4 lines	Flush-mount	-	-	-	-	-	-	14911478
QD0 Frame - 5 lines	Flush-mount	16013728	16013545	16013712	16013604	-	16013546	-
QD0 Frame - 7 lines	Flush-mount	16013436	16013729	16013714	16013715	-	16013730	-
Frame - QD1A	Flush-mount	14033603	14033601	14033609	-	12257935	14033606	-
Frame - QD1B	Flush-mount	14033613	14033611	14033616	-	12258077	14033614	-
Frame - QD1C	Flush-mount	14033620	14033618	14033625	-	12258262	14033624	-
QD0 Frame - 2 lines	Surface-mount	14911528	14918780	14918782	14918783	-	14918784	-
QD0 Frame - 3 lines	Surface-mount	14911531	14918785	14918786	14918512	-	14918513	-
QD0 Frame - 4 lines	Surface-mount	14911532	14918514	14918515	14918516	-	14918517	-
QD0 Frame - 5 lines	Surface-mount	16013635	16013605	16013614	16013615	-	16013616	-
QD0 Frame - 7 lines	Surface-mount	16013768	16013759	16013745	16013667	-	16013585	-
Frame - QD1A	Surface-mount	14033668	12958685	14033671	-	12257998	14033669	-
Frame - QD1B	Surface-mount	14033673	12958708	14033677	-	12258259	14033675	-
Frame - QD1C	Surface-mount	14033679	12958710	14033683	-	12258342	14033681	-

Notes: 1) For construction details, refer to the product manual.
 2) TTW01-QD0 board models come in the standard Smooth White Munsell N9.5.
 TTW01-QD1/2/3 board models come in standard Gray RAL 7035.
 Other colors available are optional.

Overview of TTW01-QD boards

Partial boards

Description	Mounting	Topcoat						
		GRAY RAL-7035 ²⁾	GRAY RAL-7032	GRAY MUNSELL N6.5	SMOOTH WHITE MUNSELL N9.5 ²⁾	WHITE RAL-9003	SMOOTH WHITE NOBAC MUNSELL N9.5	GALVANIZED
Frame - QD2B	Surface-mount	14033708	12960010	14033712	-	12505670	14033710	-
Frame - QD2C	Surface-mount	14033713	12960337	14033717	-	12505671	14033715	-
Frame - QD2D	Surface-mount	15960879	15958902	15960796	-	15960590	15960797	-
Frame - QD3C	Surface-mount	14033661	12505672	14033666	-	14033659	14033663	-
Frame - QD3D	Surface-mount	15960924	15961007	15961062	-	15961019	15960996	-
QD0 door + cover plate kit - 2 lines	Flush-mount	14911535	14918578	14918579	14918580	-	14918581	-
QD0 door + cover plate kit - 3 lines	Flush-mount	14911536	14918582	14918583	14918584	-	14918585	-
QD0 door + cover plate kit - 4 lines	Flush-mount	14912264	14918586	14918587	14918588	-	14918589	-
QD0 door + cover plate kit - 5 lines	Flush-mount	16008970	16008723	16008979	16008802	-	16008724	-
QD0 door + cover plate kit - 7 lines	Flush-mount	16009812	16009557	16009677	16009813	-	16009851	-
QD1A door kit	Flush-mount	14033460	14033458	14033465	-	12261121	14033462	-
QD1A door kit with polycarbonate	Flush-mount	14033521	14033519	14033525	-	12550995	14033523	-
QD1B door kit	Flush-mount	14033470	14033468	14033473	-	12261183	14033471	-
QD1B door kit with polycarbonate	Flush-mount	14033538	14033527	14033542	-	12550997	14033540	-
QD1C door kit	Flush-mount	14033477	14033475	14033481	-	12261186	14033479	-
QD1C door kit with polycarbonate	Flush-mount	14033546	14033544	14033550	-	12551018	14033548	-
QD0 door + cover plate kit - 2 lines	Surface-mount	14912440	14918590	14918591	14918592	-	14918593	-
QD0 door + cover plate kit - 3 lines	Surface-mount	14912443	14918594	14918595	14918596	-	14918597	-
QD0 door + cover plate kit - 4 lines	Surface-mount	14912446	14918618	14918619	14918620	-	14918622	-
QD0 door + cover plate kit - 5 lines	Surface-mount	16010051	16010059	16008727	16010060	-	16002276	-
QD0 door + cover plate kit - 7 lines	Surface-mount	16010126	16009486	16010268	16010211	-	16010212	-
QD1A door kit	Surface-mount	14033552	12959757	14033556	-	12261181	14033554	-
QD1A door kit with polycarbonate	Surface-mount	14033591	12959809	14033598	-	12550996	14033594	-
QD1B and 2B door kit	Surface-mount	14033558	12959895	14033562	-	12261185	14033560	-
QD1C and 2C door kit	Surface-mount	14033564	12960336	14033567	-	12261187	14033565	-
QD1B and 2B reinforced door kit	Surface-mount	14033575	12960394	14033589	-	12506522	14033577	-
QD1B and 2B door kit with polycarbonate	Surface-mount	14033569	12960393	14033573	-	12506521	14033571	-
Reinforced QD1C and 2C door kit	Surface-mount	14033943	13101685	14033945	-	13101684	14033944	-
QD1C and 2C door kit with polycarbonate	Surface-mount	14033602	12960738	14033607	-	12506524	14033605	-
QD2D door kit	Surface-mount	15958125	15958277	15957431	-	15958264	15958187	-
Kit porta QD2D reforçada	Surface-mount	15958445	15958518	15957896	-	15957897	15958528	-
QD2D door kit with polycarbonate	Surface-mount	15958720	15958654	15958721	-	15958681	15958729	-
QD3C door kit	Surface-mount	14033502	12506526	14033507	-	14033500	14033505	-
QD3C door kit with polycarbonate	Surface-mount	14033485	12506525	14033499	-	14033483	14033487	-
QD3D door kit	Surface-mount	15959007	15959059	15959031	-	15959032	15958977	-
QD3D door kit with polycarbonate	Surface-mount	15958887	15958836	15959084	-	15959148	15958731	-
QD0 rack + rail - 2 lines	-	-	-	-	-	-	-	14912500
QD0 rack + rail - 3 lines	-	-	-	-	-	-	-	14912574
QD0 rack + rail - 4 lines	-	-	-	-	-	-	-	14912646
QD0 rack + rail - 5 lines	-	-	-	-	-	-	-	16008652
QD0 rack + rail - 7 lines	-	-	-	-	-	-	-	16008688
QD1A mounting rack kit	-	-	-	-	-	-	-	12260365
QD1B and 2B mounting rack kit	-	-	-	-	-	-	-	12260421
QD1C, 2C and 3C mounting rack kit	-	-	-	-	-	-	-	12260422
QD2D e 3D mounting rack kit	-	-	-	-	-	-	-	15954189

Notes: 1) For construction details, refer to the product manual.

2) TTW01-QD0 board models come in the standard Smooth White Munsell N9.5.

TTW01-QD1/2/3 board models come in standard Gray RAL 7035.

Other colors available are optional.

Overview of mechanical kits, cables, busbars and accessories

Mechanical kits

To allow the installation of DWB and AGW circuit breakers, MDW and MDWH miniature circuit breakers and other protection and switching devices, dedicated mechanical kits were developed. The table below lists the kits available for the different types of TTW01-QD boards:



Description	Application				Topcoat					
	QD0	QD1	QD2	QD3	GRAY RAL-7035	GRAY RAL-7032	GRAY MUNSELL N6.5	WHITE RAL-9003	WHITE NOBAC MUNSELL N9.5	GALVANIZED
Blank cover plate kit 150	-	√	√	-	14033741	12958664	14033744	12257514	14033742	-
Blank cover plate kit 150 3C	-	-	-	√	14033687	12491736	14033701	14033684	14033699	-
Cover plate kit 150 for 1 rail	-	√	√	-	14033608	12958665	14033612	12257516	14033610	-
Cover plate kit 150 for 1 rail 3C	-	-	-	√	14033406	12491827	14033410	14033403	14033409	-
Blank cover plate kit 225	-	√	√	-	14033746	12958666	14033760	12257517	14033758	-
Blank cover plate kit 225 3C	-	-	-	√	14033414	12491961	14033418	14033412	14033416	-
Cover plate kit 225 for 1 rail	-	√	√	-	14033762	12958680	14033766	12257813	14033764	-
Blank cover plate kit 300	-	√	√	-	14033767	12958681	14033769	12257814	14033768	-
Blank cover plate kit 300 3C	-	-	-	√	14033422	12491962	14033426	14033420	14033424	-
Cover plate kit 300 for 2 rail	-	√	√	-	14033771	12958683	14033774	12257816	14033772	-
Blank cover plate kit 75	-	√	√	-	14033738	12958663	14033740	12257510	14033739	-
Blank cover plate kit 75 3C	-	-	-	√	14033325	12491818	14033402	14033036	14033400	-
AGW250 2 mounting plate kit	-	√	√	-	14033809	13205988	14033811	13205987	14033810	-
AGW250 mounting plate kit 3C	-	-	-	√	14033676	13205989	14033682	14033674	14033680	-
AGW400 mounting plate kit 3C	-	-	-	√	14033636	13202234	14033642	14033634	14033640	-
AGW400 mounting plate kit with bar 2	-	-	√	-	14033803	13202207	14033805	13202072	14033804	-
AGW400 mounting plate kit with bar 3C	-	-	-	√	14033617	13202229	14033623	14033615	14033619	-
AGW400 mounting plate kit with bar hing. cover p. bar 2	-	-	√	-	14093349	14117576	14117577	14117598	14117599	-
AGW400 mounting plate kit with bar hing. cover p. bar 3C	-	-	-	√	14093350	14117600	14117601	14117602	14117603	-
AGW400 mounting plate kit with bar hing. cover p. 3C	-	-	-	√	14093368	14117605	14117606	14117629	14117632	-
AGW400 mounting plate kit 2V exit 3C	-	-	-	√	14033628	13202230	14033632	14033626	14033630	-
AGW50-100 2 mounting plate kit	-	√	√	-	14033806	13205985	14033808	13205984	14033807	-
AGW50-100 mounting plate kit 3C	-	-	-	√	14033667	13205986	14033672	14033665	14033670	-
AGW800 mounting plate kit 3C	-	-	-	√	14033657	13202236	14033662	14033655	14033660	-
AGW800 mounting plate kit with bar 3C	-	-	-	√	14033646	13202235	14033653	14033644	14033649	-
AGW800 mounting plate kit with bar hing. cover p. 3C	-	-	-	√	14093460	14117670	14117671	14118442	14118443	-
AGW800 mounting plate kit with bar hing. cover p. 3C	-	-	-	√	14093907	14118444	14118445	14118496	14118497	-
AGW-DWB630 BLJM mounting plate kit MMW hing. cover p. 3C	-	-	-	√	15020779	15021759	15021761	15021762	15021763	-
AGW-DWB630 mounting plate kit with bar hing. cover p. 3C	-	-	-	√	15020781	15021764	15021765	15021766	15021767	-
Mounting plate distr. bar kit 400 A 3C	-	-	-	√	14033461	12506812	14033467	14033459	14033464	-
Mounting plate distr. bar kit 400 A with CT 3C	-	-	-	√	14033445	12506811	14033447	14033444	14033446	-
Mounting plate distr. bar kit 630 A 3C	-	-	-	√	14033472	12506870	14033476	14033469	14033474	-
Mounting plate distr. bar kit 630 A with TC 3C	-	-	-	√	14033480	12506871	14033484	14033478	14033482	-
Blank mounting plate kit 150	-	√	√	-	-	-	-	-	-	12260419
Blank mounting plate kit 150 2	-	-	√	-	-	-	-	-	-	12492095
Blank mounting plate kit 150 3C	-	-	-	√	-	-	-	-	-	12492096
Blank mounting plate kit 150 adjustable 2	-	-	√	-	-	-	-	-	-	13401913
Blank mounting plate kit 150 adjustable 3C	-	-	-	√	-	-	-	-	-	13401915
Blank mounting plate kit 1A one-piece	-	√	-	-	-	-	-	-	-	12259637
Blank mounting plate kit 1B one-piece	-	√	√	-	-	-	-	-	-	12260366
Blank mounting plate kit 1C one-piece	-	√	√	-	-	-	-	-	-	12260418
Blank mounting plate kit 2D one-piece	-	-	√	-	-	-	-	-	-	15964473

Overview of mechanical kits, cables, busbars and accessories

Mechanical kits

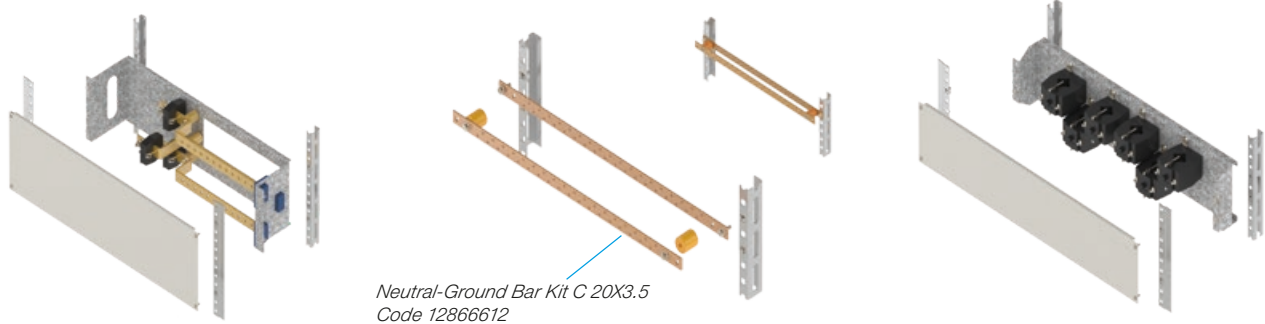
Description	Application				Topcoat					
	QD0	QD1	QD2	QD3	GRAY RAL-7035	GRAY RAL-7032	GRAY MUNSELL N6.5	WHITE RAL-9003	WHITE NOBAC MUNSELL N9.5	GALVANIZED
Blank mounting plate kit 600	-	√	√	-	-	-	-	-	-	12260420
Blank mounting plate kit 300 2	-	-	√	-	-	-	-	-	-	12492148
Blank mounting plate kit 300 3C	-	-	-	√	-	-	-	-	-	12492114
Blank mounting plate kit 300 adjustable 2	-	-	√	-	-	-	-	-	-	13402261
Blank mounting plate kit 300 adjustable 3C	-	-	-	√	-	-	-	-	-	13402262
Blank mounting plate kit 3C one-piece	-	-	-	√	-	-	-	-	-	12541092
Blank mounting plate kit 3D one-piece	-	-	-	√	-	-	-	-	-	15964345
DWB160 mounting plate kit 2	-	√	√	-	14033778	12960389	14033780	12506974	14033779	-
DWB160 mounting plate kit 3C	-	-	-	√	14033498	12506976	14033503	14033486	14033501	-
DWB250 mounting plate kit 2	-	√	√	-	14033781	12960391	14033783	12506977	14033782	-
DWB250 mounting plate kit 3C	-	-	-	√	14033518	12507018	14033522	14033506	14033520	-
DWB400 mounting plate kit 3C	-	-	-	√	14033561	12507292	14033566	14033559	14033563	-
DWB400 BLIM mounting plate kit 3C	-	-	-	√	14033526	12507130	14033541	14033524	14033539	-
DWB400 BLIM mounting plate kit MMW hing. cover p. 3C	-	-	-	√	14093549	14118685	14118686	14118687	14118738	-
DWB400 mounting plate kit with bar 2	-	-	√	-	14033784	12960384	14033786	12507136	14033785	-
DWB400 mounting plate kit with bar 3C	-	-	-	√	14033545	12507227	14033549	14033543	14033547	-
DWB400 mounting plate kit with bar hing. cover p. 2	-	-	√	-	14093988	14118739	14118740	14118741	14118743	-
DWB400 mounting plate kit with bar hing. cover 3C	-	-	-	√	14094097	14118815	14118991	14118993	14118994	-
DWB400 mounting plate kit MMW hing. cover p. 3C	-	-	-	√	14094150	14118995	14118996	14118997	14119058	-
DWB400 mounting plate kit exit 3C	-	-	-	√	14033553	12507288	14033557	14033551	14033555	-
DWB400 mounting plate kit 3C	-	-	-	√	14033599	12507296	14033604	14033597	14033600	-
DWB800 BLIM mounting plate kit 3C	-	-	-	√	14033570	12507294	14033574	14033568	14033572	-
DWB800 BLIM mounting plate kit MMW hing. cover p. 3C	-	-	-	√	14094447	14119059	14119041	14119129	14119130	-
DWB800 mounting plate kit with bar 3C	-	-	-	√	14033588	12507295	14033593	14033576	14033590	-
DWB800 mounting plate kit with bar hing. cover 3C	-	-	-	√	14094478	14119134	14119137	14119255	14119256	-
DWB800 mounting plate kit MMW hing. cover p. 3C	-	-	-	√	14094479	14119167	14119199	14119253	14119254	-
CT KR174 mounting plate kit 3C	-	-	-	√	14033429	12506774	14033433	14033427	14033431	-
CT KR238 mounting plate kit 3C	-	-	-	√	14033437	12506775	14033439	14033435	14033438	-
AGW250 bracket kit with MMW 1-2	-	√	√	-	14092749	14116618	14116577	14116601	14116575	-
AGW250 bracket kit with MMW 3C	-	-	-	√	14092755	14116603	14117008	14117009	14117010	-
AGW250 bracket kit COVER PLATE 225	-	√	√	-	14033800	13154377	14033802	13154376	14033801	-
AGW50-100 bracket kit with MMW 1-2	-	√	√	-	14089628	14116568	14116602	14116604	14116605	-
AGW50-100 bracket kit with MMW 3C	-	-	-	√	14092671	14116607	14116648	14116649	14116655	-
AGW50-100 bracket kit cover plate 225	-	√	√	-	14033787	13154375	14033799	13154373	14033798	-
Neutral-ground bar bracket kit 1-2	-	√	√	-	-	-	-	-	-	12256191
Neutral-Ground Bar Bracket Kit 3C	-	-	-	√	-	-	-	-	-	12506319
DWB125 + DWB160 bracket kit COVER PLATE 225	-	√	√	-	14033703	12958387	14033707	12256678	14033705	-
DWB125 + DWB160 bracket kit COVER PLATE 300	-	√	√	-	14033709	12958505	14033714	12256723	14033711	-
DWB160 bracket kit with MMW 1-2	-	√	√	-	14092800	14117015	14117016	14117017	14117028	-
DWB160 bracket kit with MMW 3C	-	-	-	√	14092840	14117030	14117031	14117033	14117381	-
DWB250 bracket kit with MMW 1-2	-	√	√	-	14093216	14117384	14117456	14117497	14117570	-
DWB250 bracket kit with MMW 3C	-	-	-	√	14093348	14117573	14117493	14117574	14117575	-
DWB250 bracket kit COVER PLATE 225	-	√	√	-	14033716	12958506	14033720	12256817	14033718	-
DWB250 bracket kit COVER PLATE 300	-	√	√	-	14033722	12958660	14033727	12256849	14033725	-
MSWR125 bracket kit	-	√	√	-	14033812	13314699	14033814	13314698	14033813	-
MSWR40 bracket kit	-	√	√	-	14979098	14979099	14979101	14979102	14979103	-
Rail kit 1-2	-	√	√	-	-	-	-	-	-	12258683
Rail kit 3C	-	-	-	√	-	-	-	-	-	12506520
Adjustable rail kit 2	-	-	√	-	-	-	-	-	-	13402263
Adjustable rail kit 3C	-	-	-	√	-	-	-	-	-	13402265

Note: 1) For construction details, refer to the product manual.

Overview of mechanical kits, cables, busbars and accessories

Busbars and cables

Specific kits were developed for energy distribution and internal interconnections between protection devices of the distribution boards. The table below lists these kits



Description	Application					Code Unpainted	Mechanical kit in GRAY RAL 7035 associated with the busbar/cable ¹⁾	Note
	QD0	QD1 Flush-mount	QD1 Surface-mount	QD2	QD3			
Neutral/ground bar kit flushmount/ surface-mount width 450 mm	√	-	-	-	-	14912766	-	3x M6x16 + 32x M4x10
Neutral/ground bar kit flushmount/ surface-mount width 600 mm	√	-	-	-	-	16008416	-	3x M6x16 + 45x M4x10
Neutral/ground bar insulator bracket kit	√	-	-	-	-	14912953	-	-
AGW/DWB400 2 bar kit	-	-	-	√	-	12504852	14033803 / 14033784 / 14093349 / 14093988	-
AGW/DWB400 bar kit 3C	-	-	-	-	√	12504998	14033617 / 14033545 / 14093350 / 14094097	-
AGW/DWB800 bar kit 3C	-	-	-	-	√	12504999	14033646 / 14033588 / 14093460 / 14094478	-
AGW250 bar kit	-	√	√	√	-	13154406	14033800	-
AGW250 MMW bar kit 3C	-	-	-	-	√	14090885	14092755	-
AGW50-100 bar kit	-	√	√	√	-	13154404	14033787	-
AGW50-100 MMW bar kit 3C	-	-	-	-	√	14090882	14092671	-
AGW50-100-DWB160 MMW 1-2 bar kit	-	√	√	√	-	14090884	14089628 / 14092800	-
AGW-DWB250 MMW 1-2 bar kit	-	√	√	√	-	14090886	14092749 / 14093216	-
Distr. bar kit 400 A 3C	-	-	-	-	√	12492289	14033461	-
Distr. bar kit 400 A with CT 3C	-	-	-	-	√	12492288	14033445	-
Distr. bar kit 630 A 3C	-	-	-	-	√	12492817	14033472	-
Distr. bar kit 630 A with CT 3C	-	-	-	-	√	12492816	14033480	-
DWB125 bar kit	-	√	√	√	-	12256489	14033703 / 14033709	-
DWB160 bar kit	-	√	√	√	-	12256490	14033703 / 14033709	-
DWB160 MMW bar kit 3C	-	-	-	-	√	14091108	14092840	-
DWB250 bar kit	-	√	√	√	-	12256628	14033716 / 14033722	-
DWB250 MMW bar kit 3C	-	-	-	-	√	14091109	14093348	-
DWB400 BLIM jumper bar kit 3C	-	-	-	-	√	12866610	14033526 / 14093549	-
AGW-DWB630 BLIM jumper bar kit 3C	-	-	-	-	√	15020662	15020779	-
DWB800 BLIM jumper bar kit 3C	-	-	-	-	√	12866138	14033570 / 14094447	-
MSWR125 neutral jumper bar kit	-	-	√	√	-	14757675	14033812	-
MSWR125 four-pole jumper bar kit	-	-	√	√	-	14757668	14033812	-
MSWR125 three-pole jumper bar kit	-	-	√	√	-	14757594	14033812	-
Neutral bar kit 15x3	-	√	√	√	√	12256364	12256191	9 x Ø6.3 mm
Neutral bar kit 30x10	-	√	√	√	√	12505004	12506319	9 x Ø6.3 mm

Overview of mechanical kits, cables, busbars and accessories

Busbars and cables

Description	Application					Code Unpainted	Mechanical kit in GRAY RAL 7035 associated with the busbar/cable ¹⁾	Note
	QD0	QD1 Flush-mount	QD1 Surface-mount	QD2	QD3			
Neutral bar kit 30x5	-	√	√	√	√	12505001	12256191 / 12506319 / 14093368 / 14093549 / 14094150	9 x Ø6.3 mm
Neutral-ground bar kit 20X3.5 1-2	-	√	√	√	-	12866612	-	36 x Ø3.5 mm
Ground bar kit 15x3	-	√	√	√	√	12256193	12256191	9 x Ø6.3 mm
Ground bar kit 20x3.5	-	√	√	√	√	12505005	12256191 / 12506319 / 14093368 / 14093549 / 14094150	9 x Ø6.3 mm
Ground bar kit 30x5	-	√	√	√	√	12505006	12506319	9 x Ø6.3 mm
Kit BTN02-36	-	√	√	√	√	12256195	12256191	Padrão QDW
Kit BTN02-8	-	√	√	√	√	12256194	12256191	Padrão QDW
2xAGW400 cable kit separate CT 3C	-	-	-	-	√	13207588	14033636 / 14033461 / 14093368	12 x 70 mm ²
2xAGW800 cable kit CT separate 3C	-	-	-	-	√	12871157	14033657 / 14033472	12 x 150 mm ²
2xDWB400 cable kit CT on bars 3C	-	-	-	-	√	12870717	14033561 / 14033445 / 14094150	12 x 70 mm ²
2xDWB400 cable kit CT separate 3C	-	-	-	-	√	12871151	14033561 / 14033461 / 14094150	12 x 70 mm ²
2xDWB800 cable kit CT on bars 3C	-	-	-	-	√	12871154	14033599 / 14033480 / 14094479	12 x 150 mm ²
2xDWB800 cable kit CT separate 3C	-	-	-	-	√	12871157	14033599 / 14033472 / 14093907 / 14094479	12 x 150 mm ²
AGW250 MMW 1-2 cable kit	-	√	√	√	-	14103095	14092749	3 x 95 mm ²
AGW400 cable kit with bar 2	-	-	-	√	-	13207546	14033803 / 14093349	6 x 70 mm ²
AGW400 cable kit with bar 3C	-	-	-	-	√	13207547	14033617 / 14093350	6 x 70 mm ²
AGW50-100 MMW 1-2 cable kit	-	√	√	√	-	14103069	14089628	3 x 25 mm ²
AGW-DWB630 BLIM 3C cable kit	-	-	-	-	√	15018774	15020779	6 x 150 mm ²
AGW-DWB630 cable kit with bar 3C	-	-	-	-	√	15019165	15020781	6 x 150 mm ²
AGW800 cable kit with bar 3C	-	-	-	-	√	12871153	14033646	6 x 150 mm ²
DWB160 MMW 1-2 cable kit	-	√	√	√	-	14103096	14092800	3 x 50 mm ²
DWB250 MMW 1-2 cable kit	-	√	√	√	-	14103153	14093216	3 x 95 mm ²
DWB400 BLIM cable kit 3C	-	-	-	-	√	12870172	14033526 / 14033445 / 14093549	6 x 70 mm ²
DWB400 cable kit with bar 2	-	-	-	√	-	12870174	14033784 / 14093988	6 x 70 mm ²
DWB400 cable kit with bar 3C	-	-	-	-	√	12870252	14033545 / 14094097	6 x 70 mm ²
DWB800 BLIM cable kit 3C	-	-	-	-	√	12871152	14033570 / 14033480 / 14094447	6 x 150 mm ²
DWB800 cable kit with bar 3C	-	-	-	-	√	12871153	14033588 / 14093460 / 14094478	6 x 150 mm ²
2xAGW400 outgoing cable kit 3C	-	-	-	-	√	13207589	14033646 / 14033628	12 x 70 mm ²
2xDWB400 outgoing cable kit 3C	-	-	-	-	√	12870676	14033588 / 14033553 / 14094478	12 x 70 mm ²

Note: 1) For other colors, see equivalent materials in the mechanical kits table.

Overview of mechanical kits, cables, busbars and accessories

Accessories and spare parts

The table below lists the accessories and spare parts available for the distribution boards.



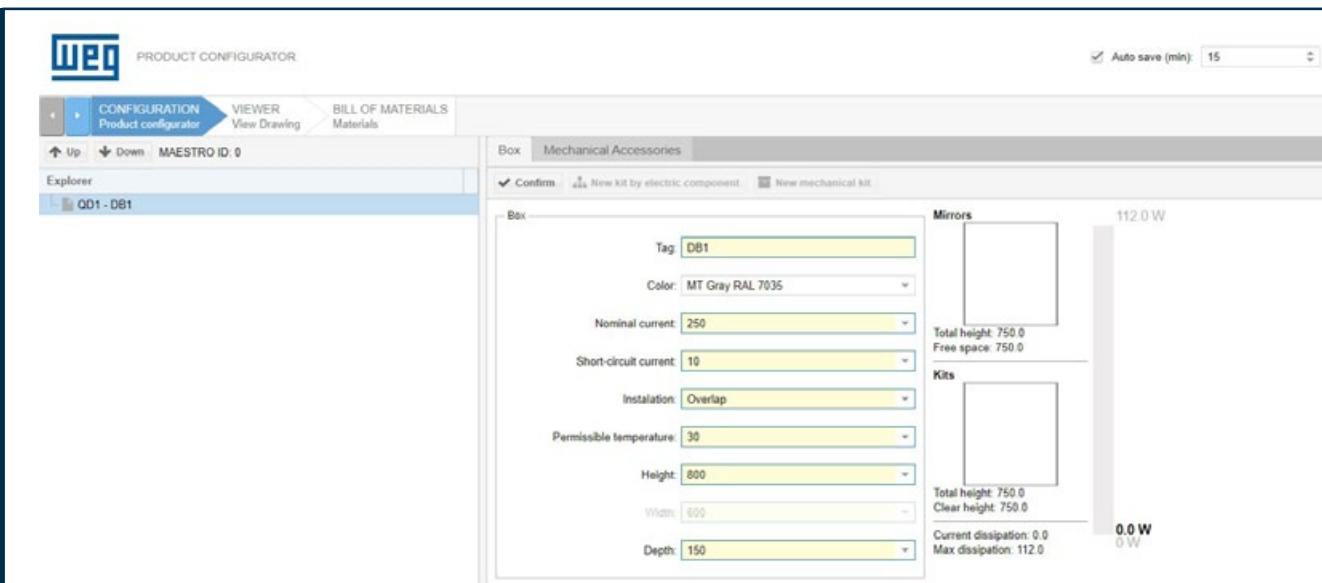
Description	Application				Topcoat						
	QD0	QD1	QD2	QD3	GRAY RAL-7035	GRAY RAL-7032	GRAY MUNSELL N6.5	WHITE RAL-9003	SMOOTH WHITE MUNSELL N9.5	WHITE NOBAC MUNSELL N9.5	Unpainted
Slotted latch kit - standard	√	-	-	-	-	-	-	-	-	-	14912957
Yale latch kit - optional	√	-	-	-	-	-	-	-	-	-	14913108
Surface mount top/lower cover kit	√	-	-	-	14913115	14918623	14918787	-	14918838	14918839	-
Floor mounting base kit 3C and 3D	-	-	-	√	14033407	13409687	14033411	14033404	-	14033408	-
AGW250 cover plate flange cover kit	-	√	√	√	14033432	13205983	14033436	13205992	-	14033434	-
AGW50-100 cover plate flange cover kit	-	√	√	√	14033425	13205991	14033430	13205990	-	14033428	-
DWB160 cover plate flange cover kit	-	√	√	√	14033413	12960965	14033417	12946040	-	14033415	-
DWP250 cover plate flange cover kit	-	√	√	√	14033419	12960739	14033423	12946041	-	14033421	-
Bushing kit for rack	-	√	√	√	-	-	-	-	-	-	13412067
Surface-mount board mounting kit	-	√	√	√	-	-	-	-	-	-	12258344
Latch kit - polyamide	-	√	√	√	-	-	-	-	-	-	13412139
Latch kit - zamac	-	√	√	√	-	-	-	-	-	-	13412140
Yale latch kit - polyamide	-	√	√	√	-	-	-	-	-	-	12369847
Yale latch kit - zamac	-	√	√	√	-	-	-	-	-	-	13120904
Eye bolt kit 3C and 3D	-	-	-	√	-	-	-	-	-	-	13408489
Cage nut kit M4	-	√	√	√	-	-	-	-	-	-	12682288
Cage nut kit M6	-	√	√	√	-	-	-	-	-	-	12682227

TTW configurator

As a complementary design tool for the TTW01-QD, WEG developed the TTW configurator, which allows sizing all the mechanics of the board. Easy to access and use, it is a free tool available on our website to all TTW panel builders. This configuration software allows the TTW panel builder to design the panel and have a bulletin of materials, a layout of the board in DWG and its datasheet. Thus, errors are eliminated, and the characteristics required by standard are maintained. As an example, below are 2 dimensioning screens of the TTW01-QD.

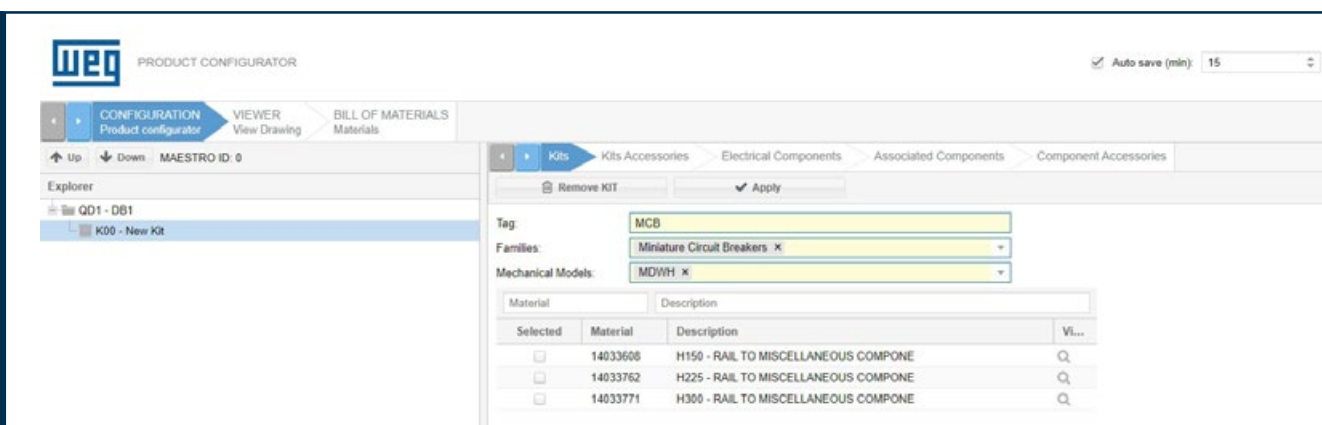
Board configuration home screen:

- Input of the board electrical data and characteristics



Mechanical kit selection:

- Definition of kits to be applied to the board, when necessary



Technical characteristics

Description	TTW01-QD0-2L	TTW01-QD0-3L	TTW01-QD0-4L	TTW01-QD0-5L	TTW01-QD0-7L	TTW01-QD1A	TTW01-QD1B	TTW01-QD1C	TTW01-QD2B	TTW01-QD2C	TTW01-QD2D	TTW01-QD3C	TTW01-QD3D	
Number of poles	36	54	72	120	168	72	120	168	120	168	216	245	315	
Application	Modular line only (DIN rail mounting)					According to mechanical kits available (molded case circuit breaker and modular line)								
Rated continuous duty current (InA)	125 A					250 A			400 A			630 A		
Rated conditional short-circuit current (Icc)	10 kA					10 kA			16 kA					
Rated insulation voltage (U)	500 V ac					690 V								
Voltage applied at industrial freq.	1,890 V ac													
Rated operational voltage (U _e)	440 V ac / 250 V dc					Up to 690 V								
Rated frequency	60 Hz					60 Hz								
Rated impulse withstand voltage (U _{imp})	4 kV					8 kV (4 kV with MDW)								
Pollution degree	3													
Access	Front													
Mounting	Flush-mount and surface-mount					Flush-mount and surface-mount			Surface-mount					
Internal separation forms	Not applicable													
Dimensions (mm) - flush-mount or surface-mount	Width	450			600		600					800		
	Height	450	600	750	900	1,200	500	800	1,100	800	1,100	1,400	1,100	1,400
	Depth	85					150			250			350	
Weight ¹⁾ (kg)	Flush-mount	7.7	9.9	12	18.3	27	11.7	16.8	25.8	-				
	Surface-mount	7.1	9.2	11.3	17,8	30.9	10.9	15.5	27.5	24.7	31.8	39.6	44.2	53.8
Degree of protection (sheltered installation)	Flush-mount	IP3XD (closed door)					Up to IP30			-				
	Surface-mount	IP3XD (closed door)					Up to IP55							
Resistance to mechanical impact	IK-07					IK-05								
Temperature	Maximum 40 °C / Minimum -5 °C													
	(Average +35 °C for 24 hours)													
Altitude	Up to 2,000 m													
Applicable standards	IEC 61439-1 and 61439-3								IEC 61439-1 and 61439-2					

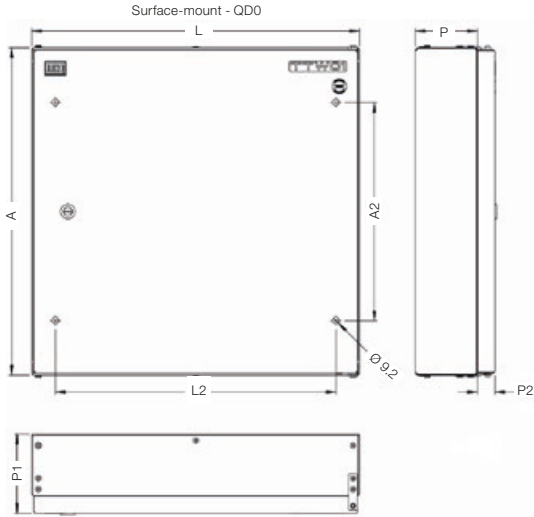
Note: 1) Weight of the empty enclosure, without electrical components.



Dimensions

Front and side view – surface-mount boards¹⁾

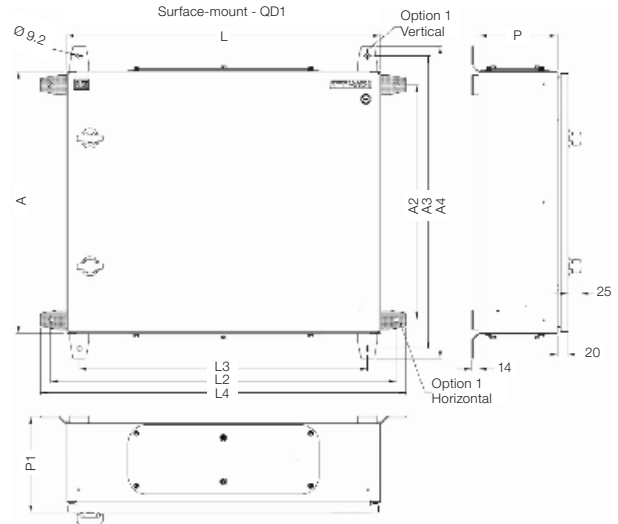
TTW01-QD0



Dimension (mm)	Surface-mount - QD0				
	2L	3L	4L	5L	7L
A	450	600	750	900	1,200
A2	300	450	600	750	1,050
L	450	450	450	600	600
L3	385	385	385	506	506
P	85	85	85	85	85
P1	109	109	109	104	102
P2	24	24	24	19.2	19.2

Note: 1) For other dimensions, refer to the product manual.

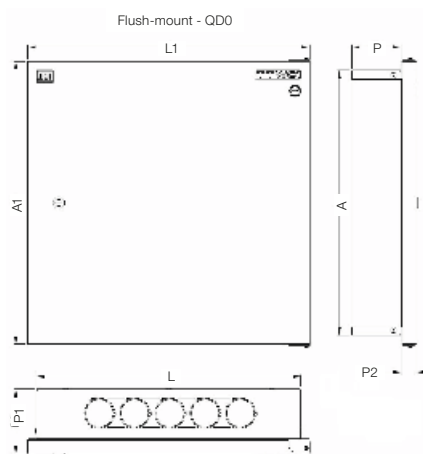
TTW01-QD1/2/3



Dimension (mm)	Surface-mount - QD1							
	1A	1B	1C	2B	2C	2D	3C	3D
A	500	800	1,100	800	1,100	1,400	1,100	1,400
A2	448	748	1,048	748	1,048	1,348	1,048	1,348
A3	558	858	1,158	858	1,158	1,458	1,158	1,458
A4	596	896	1,196	896	1,196	1,496	1,196	1,496
L	600	600	600	600	600	600	800	800
L2	660	660	660	660	660	660	860	860
L3	550	550	550	550	550	550	750	750
L4	698	698	698	698	698	698	898	898
P	150	150	150	250	250	250	350	350
P1	184	184	184	284	284	284	384	384

Front and side view – flush-mount boards¹⁾

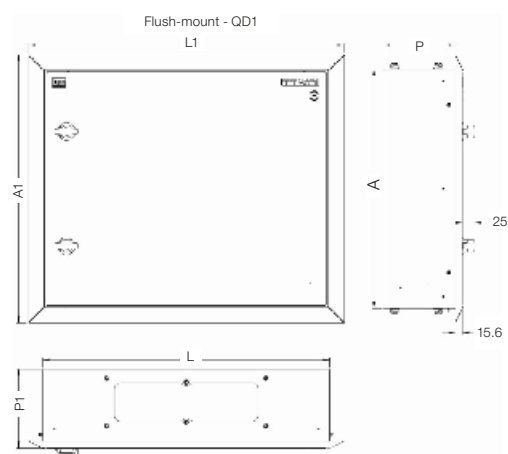
TTW01-QD0



Dimension (mm)	Flush-mount - QD0				
	2L	3L	4L	5L	7L
A	450	600	750	900	1,200
A1	480	630	780	918	1,218
L	450	450	450	600	600
L1	480	480	480	618	618
P	85	85	85	85	85
P1	110	110	110	106	106
P2	25.5	25.5	25.5	21.7	21.7

Note: 1) For other dimensions, refer to the product manual.

TTW01-QD1

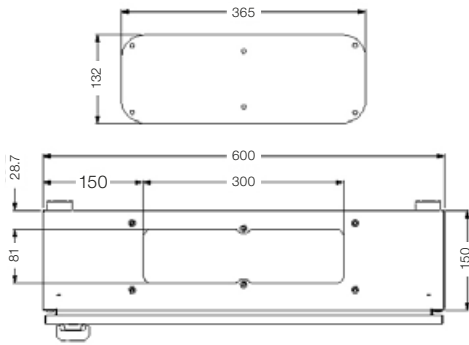


Dimension (mm)	Flush-mount - QD1		
	1A	1B	1C
A	500	800	1,100
A1	560	860	1,163
L	600	600	600
L1	660	660	663
P	150	150	150
P1	166	166	166

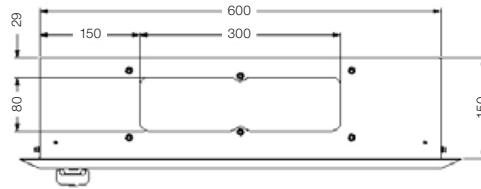
Dimensions

Views - flanges (top and bottom - dimensions in mm)

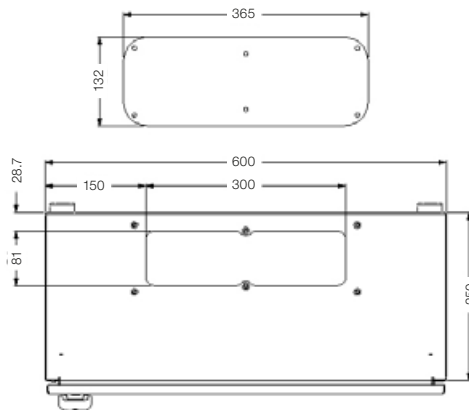
Boxes 1A - 1B - 1C surface-mount



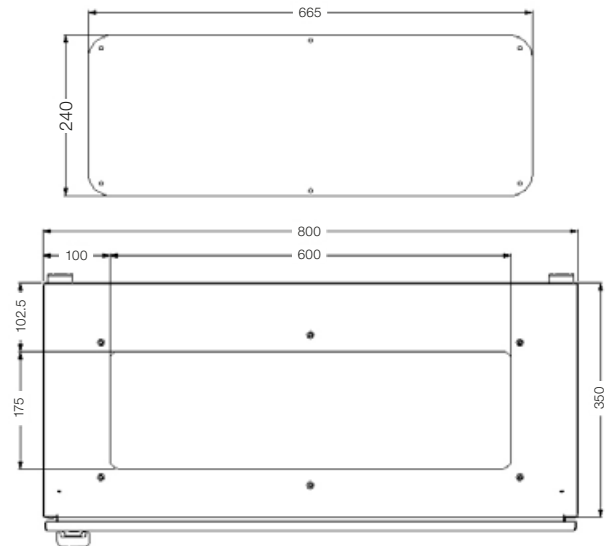
Boxes 1A - 1B - 1C flush-mount



Boxes 2B - 2C

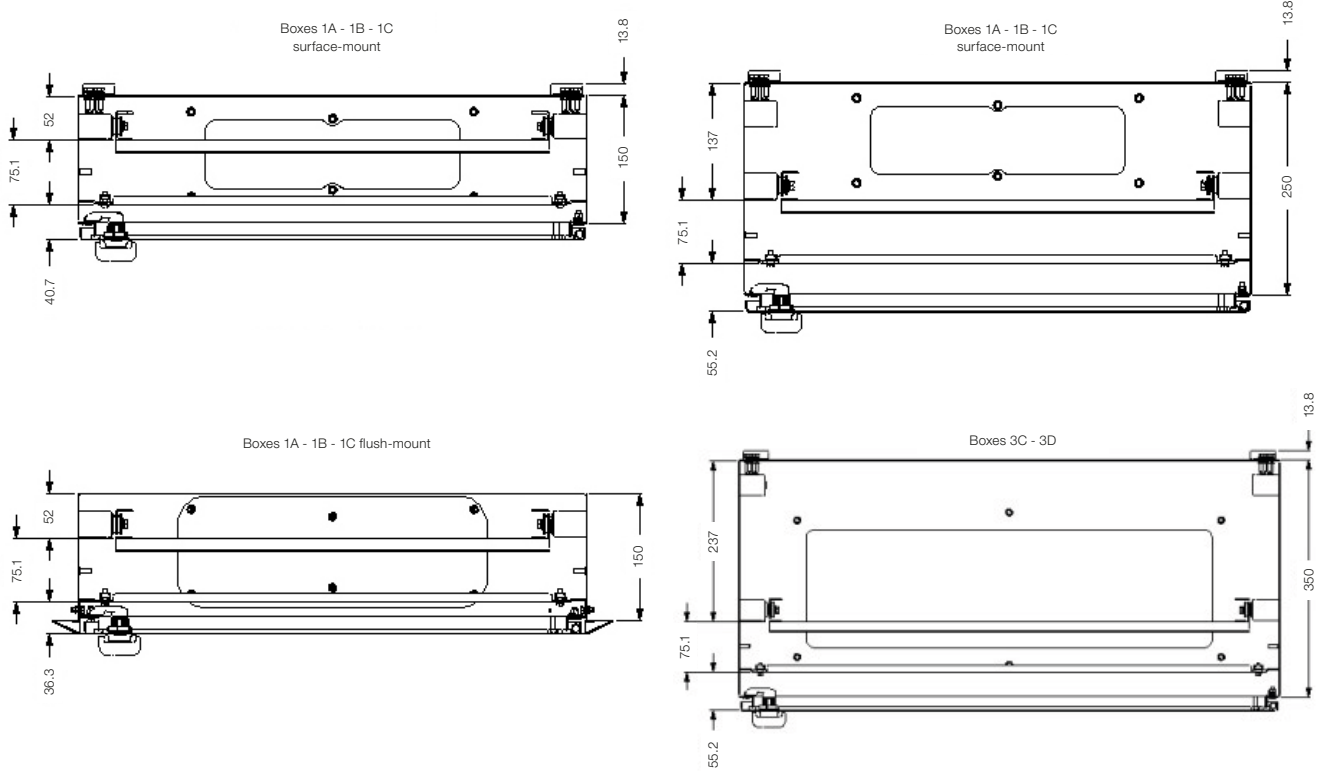


Box 3C

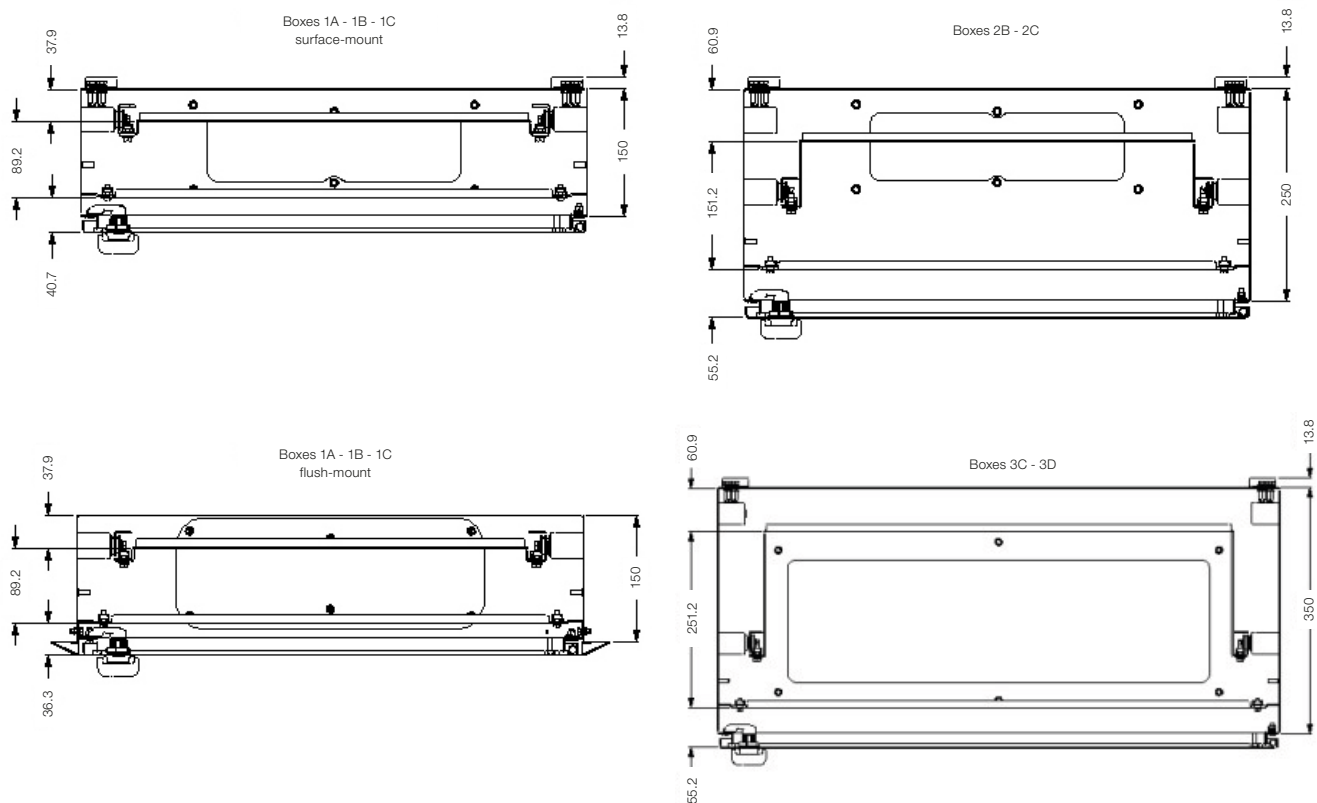


Dimensions

Top view with dimensions between door, cover plate, rack, board back (dimensions in mm)

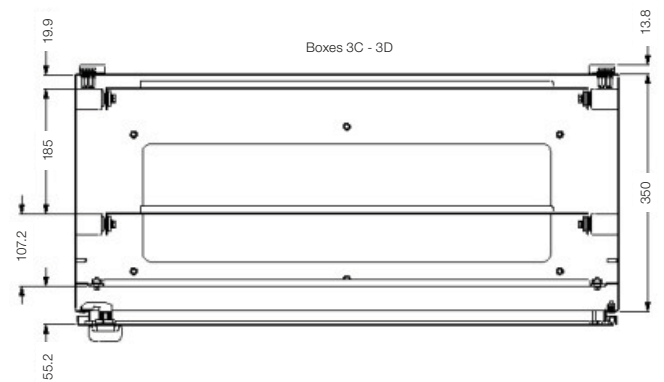
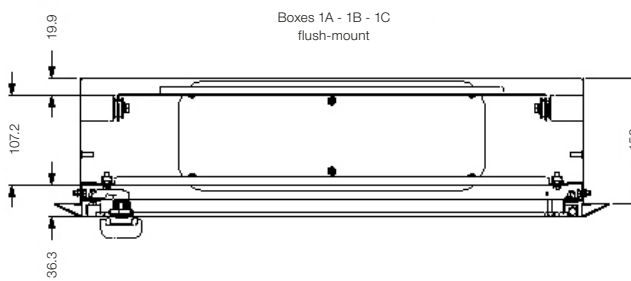
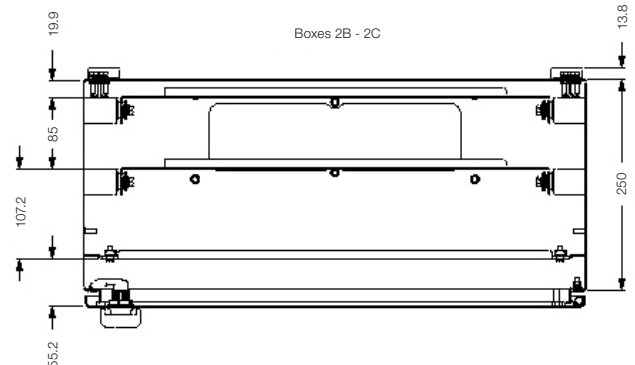
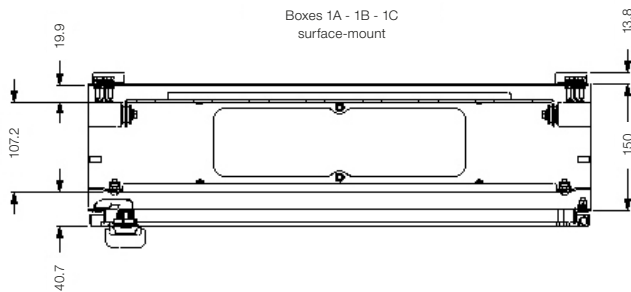


Top views with dimensions between door, cover plate, segmented blank plate and board back (dimensions in mm)

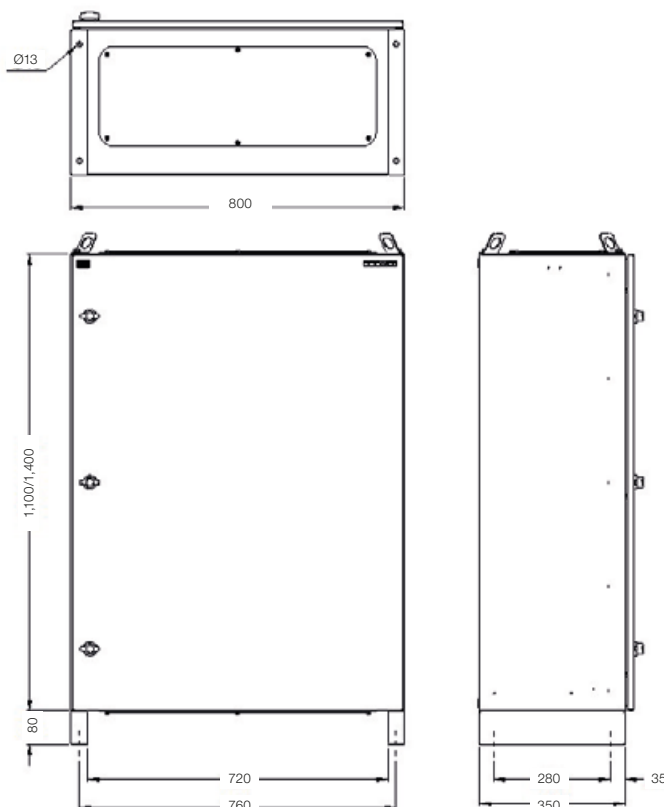


Dimensions

Top view with dimensions between door, cover plate, one-piece plate, board back (dimensions in mm)



Floor mounting base kit - TTW01-QD3 optional



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is essential, as much as understanding your needs.

Global Presence

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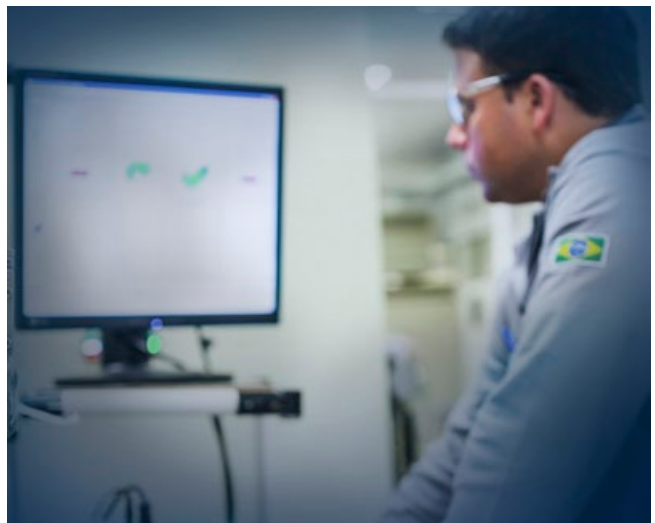
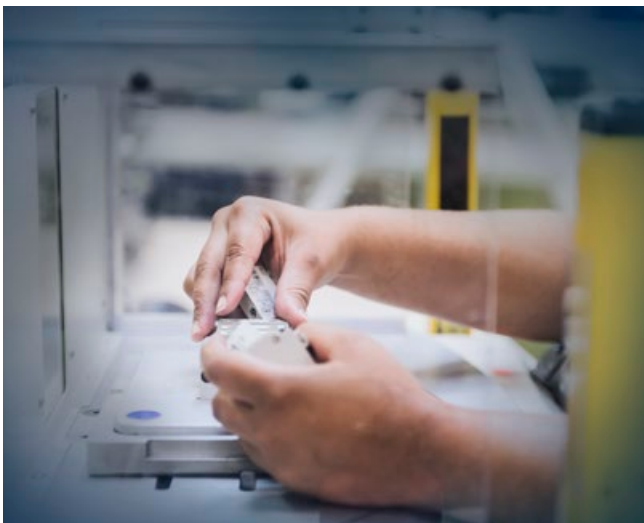
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The values shown are subject to change without prior notice.
The information contained is reference values.