EVSE OEM Range

GEWISS

Ed. 02
2022

integrity

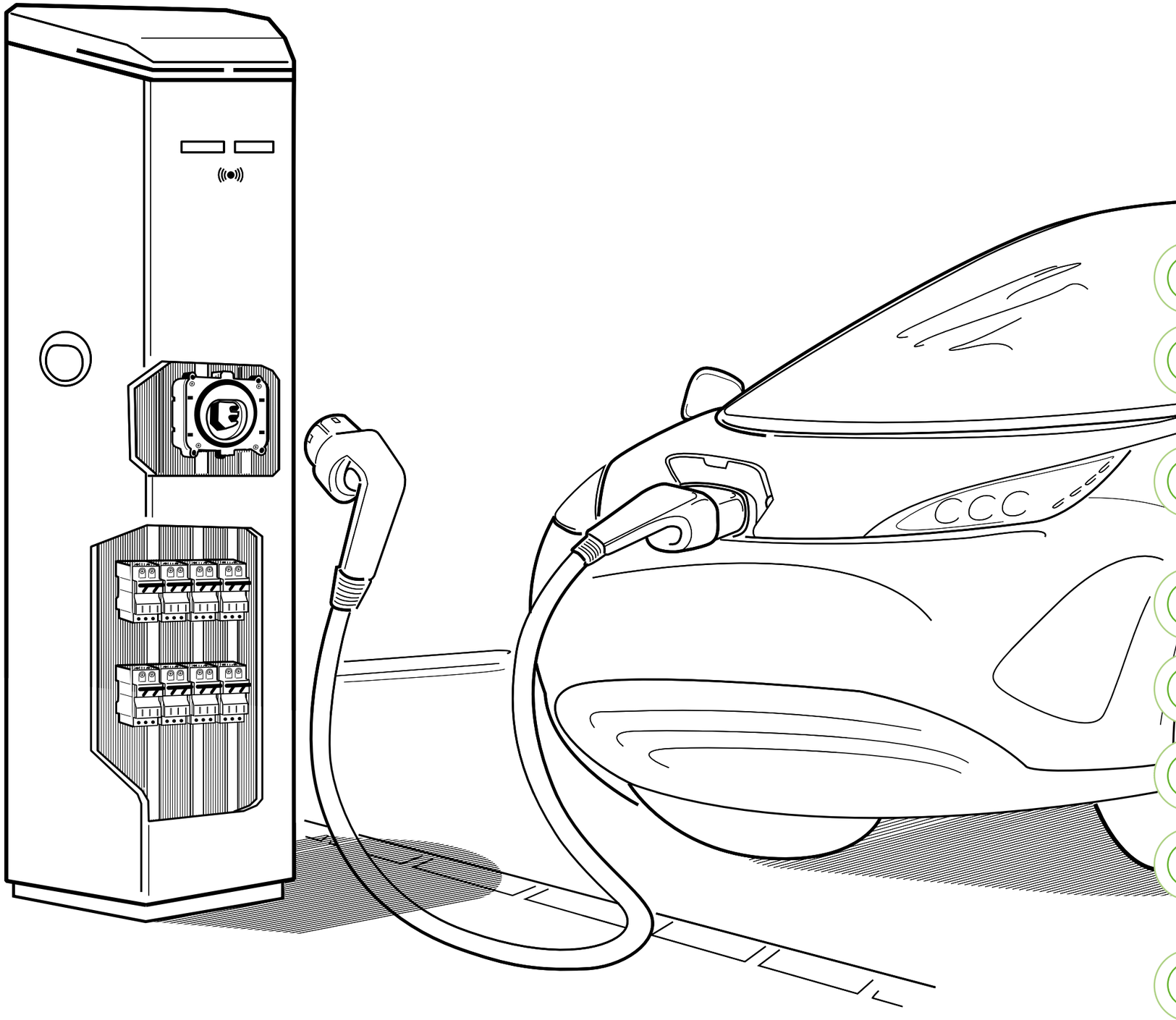
We create value for our customers by offering innovative and scalable solutions for every type of context, connecting people and things, constantly **improving safety and quality of life.** We are guided every day by **strong integrity,** an innate **culture of excellence** and a propensity for **sustainability.**

excellence

GEWISS' story is a long entrepreneurial journey that stems from **brilliant product ideas** and is based on the ability to interpret contemporaneity and **foresee the future**. Everyday creating something better **than the day before** exploring innovative solutions and maximizing every single potential. This is our **culture of excellence**.

sustainability

We work to reduce waste and **efficiently manage human, natural and financial resources**. We aim to give this value to our people, our customers, communities and future generations.



The OEM range

T2 sockets and mobile sockets

new

T2 vandal-proof sockets

Type 2 sockets, complying with EN 62196-1 and EN 62196-2 and suitable for use on EV charging units according to EN 61851, equipped with a safety shutter (IPXXD protection), and an anti-vandal system implemented by means of lock gates to prevent any access to active parts by an unauthorised user.

T2 mobile socket

Type 2 mobile sockets with cable, complying with the EN 62196-1 and EN 62196-2 standards and suitable for use on EV charging units according to EN 61851, equipped with overmolded rubber at the bottom of the handle in order to increase grip and ease of handling.

T2 charging cable

Type 2 charging cables, responsive to EN 62196-1 and EN standards 62196-2 and suitable for recharging electric vehicles according to EN 61851. Handle socket and plug made with special technopolymers obtained from the recovery of nylon.

DIN rail modular devices

EV type RCCBs

Residual current circuit breakers available in both 2-pole and 4-pole versions, complying with IEC 62955 standard and suitable for protection against smooth DC residual currents above 6 mA.

ReStart Automatic reclosing devices

In the event of circuit breaker tripping, the ReStart devices, after checking the status of the system, restore power supply ensuring maximum continuity of service in total safety. The range is distinguished by the Autotest function, with periodic and automatic control of the residual current protection.

Modular devices

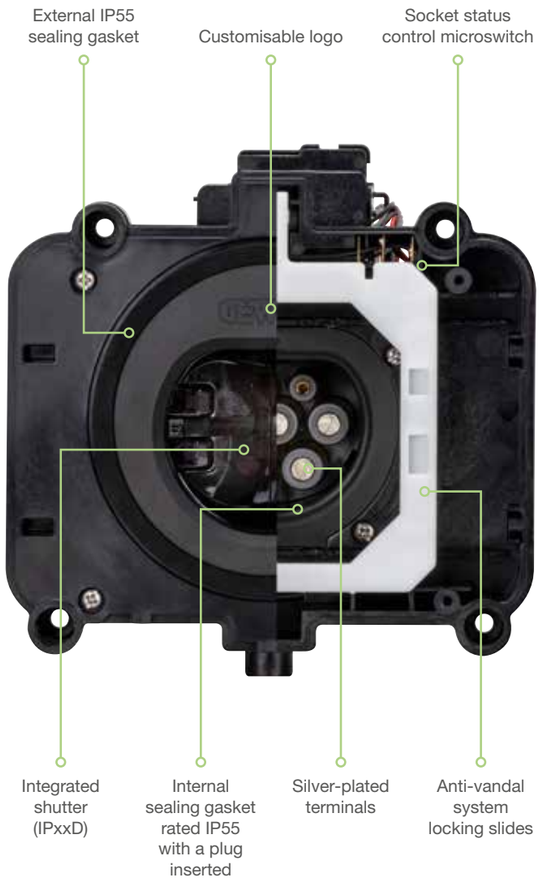
For all requirements relating to electric vehicle charging, the product offer is complete with:

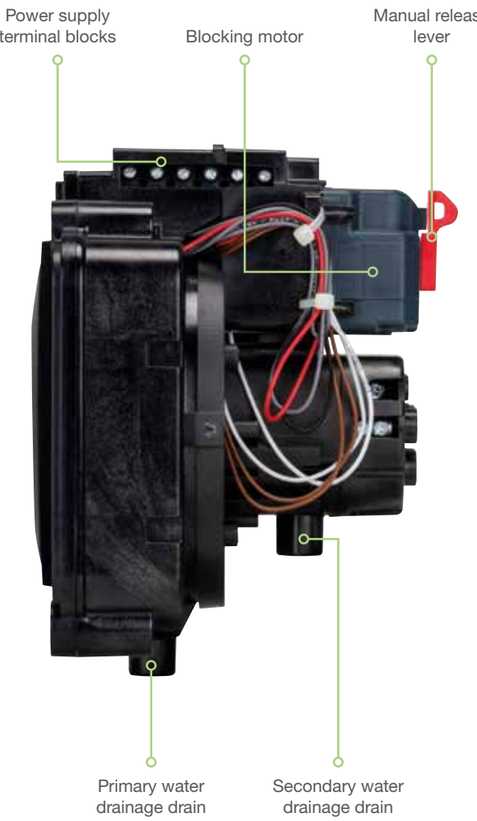
- MCBs (curves C and D)
- Type A and type B RCCBs
- Contactors (2NO and 4NO)
- Switch disconnectors up to 125A
- MID energy meters (single-phase and three-phase).

T2 vandal-proof sockets

Type 2 sockets **with IP55** degree of protection both plugged and unplugged, complying with the EN 62196-1 and EN 62196-2 standards, equipped with a safety **shutter** (IPXXD protection), a double drain for water drainage and an anti-vandal system implemented by means of shutters that still permit the "**one-hand** charging" function, thus making it possible to connect the charging plug using a single hand.

The socket is equipped with 3 micro-contacts to detect the status of the shutters (open or closed) and the status of the block (active or inactive).
There are also versions available with integrated LEDs: 1) intermittent: which signal the activation of the socket; 2) RGB, which indicate its status: free (green light), in use (blue light), error (red light).



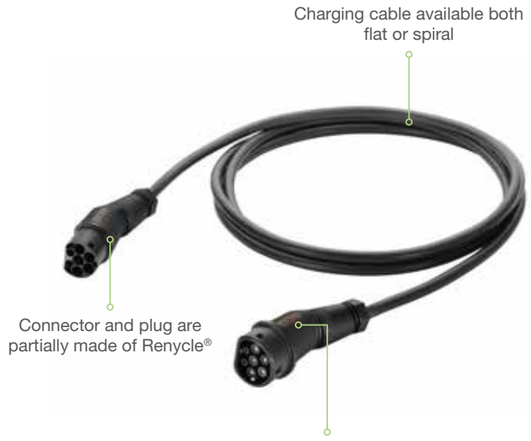


T2 mobile charging connectors

Type 2 mobile sockets with cable, complying with the EN 62196-1 and EN 62196-2 standards and suitable for use on EV charging units according to EN 61851, equipped with **overmolded rubber** at the bottom of the handle in order to increase grip and ease of handling.
The products are equipped with a rubber cable gland for maintaining the **IP55 degree of protection** between the handle and the cable. The special design of the inclined mobile connector is designed to increase the **ease of inserting** the connector and reduce its space on the outside when it is inserted into the vehicle or stored in the charging station holder.

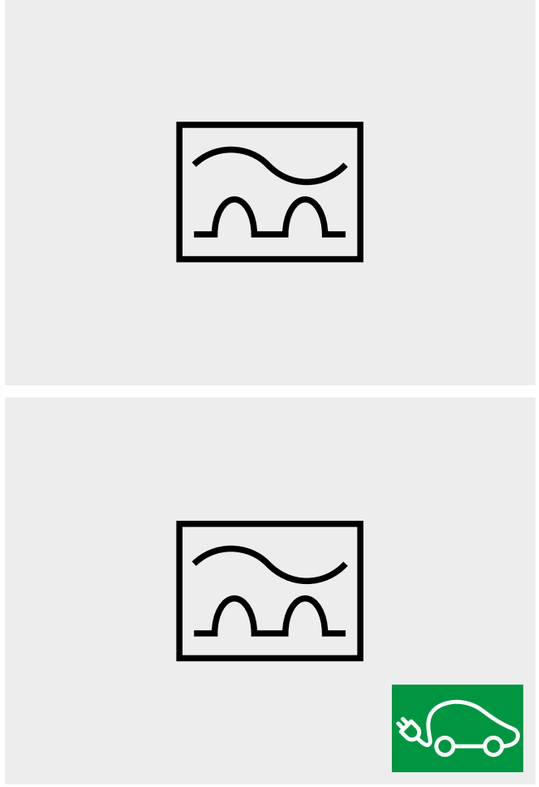
T2 charging cables

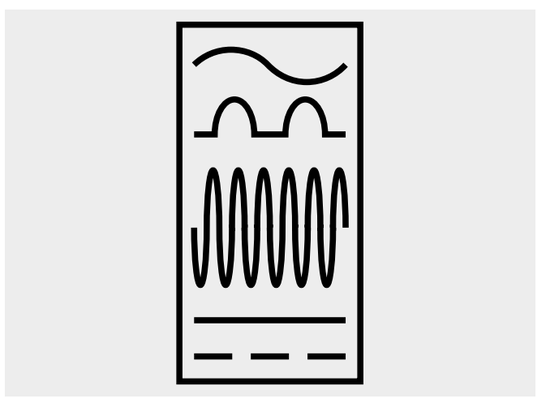
Type 2 charging cables, compliant with EN 62196-standards 1 and EN 62196-2 and suitable for charging electric vehicles according to EN 61851, available in flat versions or spiral, single-phase and three-phase. Handle socket and plug made with special technopolymers obtained from the recovery of nylon.
The products are equipped with a rubber stopper to maintain the **IP55 degree of protection**. The special design of the handles is studied to ensure the same ergonomics between socket and plug. The handle can be customized with a logo of the company through pad printing. Meet the criteria of **sustainability**, thanks to the use in part of materials of recovery from nylon and to a design which allows the replacement of components during the life cycle and complete **disassembly** and consequent **disposal**, according to current regulations, at the **end of its life**.



Residual current circuit breakers

For ground fault protection at charging points, Gewiss offers a wide choice of residual current circuit breakers, to be chosen according to the residual current waveform (from sinusoidal to smooth DC currents) and as a function of the distribution system.





TYPE A

Tripping of the residual current circuit breaker is ensured for leakage currents:

- sinusoidal
- pulsating
- pulsating with DC component

RCCBs Impulse Resistant types are available, too. They are identified by the initials IR and they have greater resistance against the causes of the untimely trips of circuit breaker. Moreover, type A[IR] is resistant to the blinding phenomenon of residual current protection, a risk that can happen if the cumulative earth leakage exceeds the requirement of 6mA stated by the IEC/EN 61008-1 standard, i.e. in the case of multiple charging points protected upstream by a single RCCB type A.

TYPE EV

Tripping of the residual current circuit breaker is ensured for leakage currents:

- as for type A
- smooth DC above 6mA

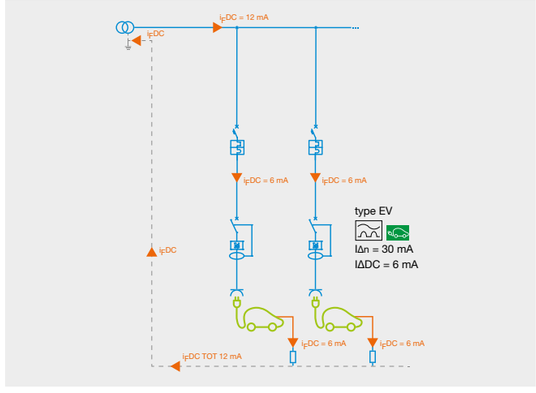
This type of circuit breaker meets the requirements of IEC 62955 standard by combining, in a single product, type A characteristics and residual direct current monitoring device, which is required for the protection of electric vehicle charging infrastructure.

TYPE B

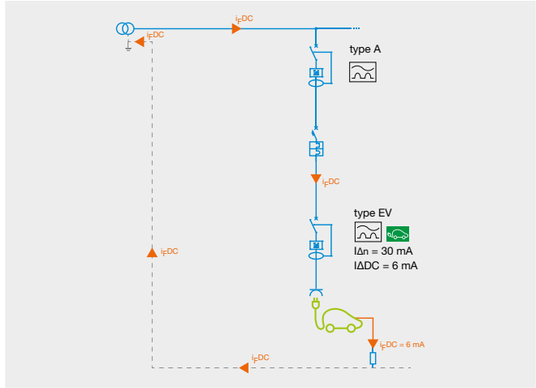
Tripping of the residual current circuit breaker is ensured for leakage currents:

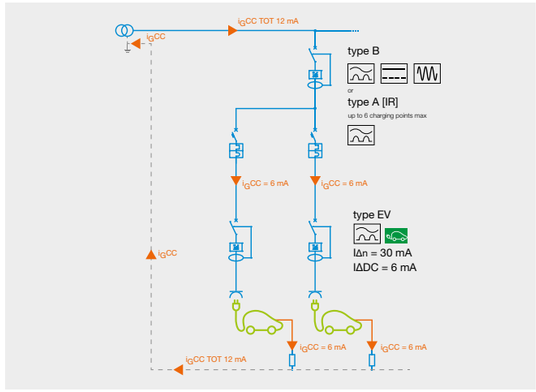
- as for type A
- multi-frequency up to 1 kHz
- smooth DC greater than 2xIdn

TN Distribution system



TT Distribution system





EXAMPLE 1

In this situation, it is enough each socket to be protected by a single EV type RCCB.
The main upstream RCCB of the charging points is not necessary even in the case of a charging device powered by two dedicated circuits.

EXAMPLE 2

The presence of the main RCCB is always necessary. If an EV type is installed at the charging point, it guarantees the effectiveness of any main type A RCCB already present upstream, thus avoiding replacement. It is suggested to install upstream charging point a RCCB type A[IR] in order to avoid untimely trips due to insertion of load downstream.

EXAMPLE 3

In the case of multiple charging points, each socket must be protected by an EV type RCCB. The main RCCB upstream can be type B or type A[IR] (up to 6 charging points max). This is to allow for continuity of service downstream, even in the presence of smooth DC residual currents greater than 6mA, given by the sum of the leakage currents of all charging points. The resistance of blinding phenomenon against DC smooth earth leakage of RCCB type A[IR] is 36mA.

Automatic reclosing devices

The range of automatic reclosing devices:

- ensure continuity of service with ReStart solutions. In the event of a nuisance trip, ReStart reclose RCCB, only once it has checked that there are no leakage currents.
- ReStart AUTOTEST solutions provide the highest level of safety, by performing a periodic automatic test of the RCCB, without cutting off power to the system.

ReStart, when installed inside the electric vehicle charging units, ensures the continuity of refuelling operations, avoiding annoying power outages*.
ReStart and ReStart Autotest can also be installed in unmanned systems, where they can ensure continuity of service and a significant reduction in maintenance costs.

* The use of automatic reclosing devices within the charging units must comply with the local regulations of the country of installation.

The exclusive benefits of ReStart

SERVICE CONTINUITY WITH INSULATION CONTROL

ReStart guarantees automatic reclosing in the event of untimely circuit breaker tripping after checking there are no faults, thereby avoiding inconvenience and possible damage.

NETWORKED DEVICES

ReStart devices can be integrated into a MODBUS RS485 data network, by connecting with the GEWISS BUS interface, to centrally manage all functions of the ReStart devices on the network.

QUICK RECLOSING

ReStart is even faster: all the versions guarantee system control and circuit breaker reclosing in just 10 seconds.

The key benefits of ReStart Autotest

TESTING THE RESIDUAL CURRENT WITH NO LOSS OF VOLTAGE

ReStart Autotest is the only device on the market that can carry out periodic safety testing on the residual current, without disconnecting voltage to the system. This function is guaranteed by special GEWISS-patented bypass contacts.

FREQUENCY OF THE AUTOMATIC TESTING

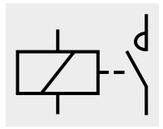
ReStart Autotest automatically tests the residual current every 28 days, guaranteeing maximum safety for the user and total efficiency of the protective device.

VAST RANGE

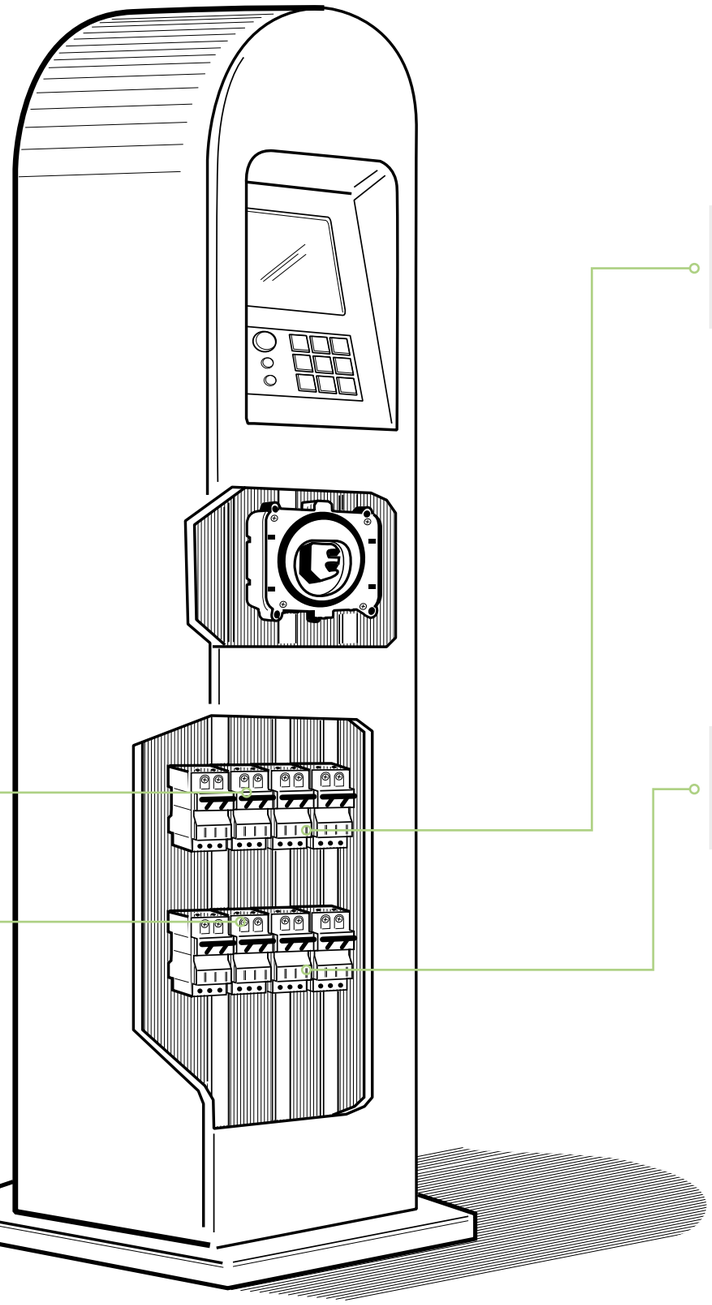
In order to ensure the maximum of safety, ReStart Autotest is also available for RCCBs type B both 2P and 4P for single-phase and three-phase distribution systems.

Other DIN rail modular devices

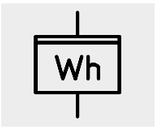
Contactors
Controlled by an electronic board, allow power to be supplied to the socket, thus allowing for the charging of the vehicle once the plug has been inserted into the socket.



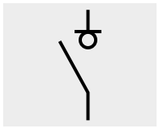
Miniature circuit breakers
Indispensable for protecting charging units from possible fault caused by short circuit or overload. They are available up to 63A with 2 different time-current characteristics (curves C and D).



Energy meters
Allowing for the measurement of the power and energy supplied during the charging operation. All meters comply with European MID regulation for tax measurement applications.



Switch disconnectors
Characterised by a red control lever. They are easily recognisable within the charging unit as main device for opening and closing of downstream circuits.



Technical and dimensional characteristics

CHARGING SOCKET TYPE 2 FOR ELECTRIC VEHICLES

VANDAL-PROOF TYPE 2 CHARGING SOCKETS

CHARGING SOCKET TYPE 2 VANDAL-PROOF WITH SHUTTER - IP55

IP 55 **IK** 10 **GWT** 960°C **UL94** V0

Code	Sockets Type	No. of Poles	Current Max.	Power Max.	Shutter Locking system
Cable entry orientation: REAR					
GWJ 5001 B	Type 2	L1 - N- PE - CC - CP	32A	7.4 kW	YES
GWJ 5002 B	Type 2	L1/L2/L3 - N- PE - CC - CP	32A	22 kW	YES
GWJ 5003 B	Type 2	L1 - N- PE - CC - CP	32A	7.4 kW	NO
GWJ 5004 B	Type 2	L1/L2/L3 - N- PE - CC - CP	32A	22 kW	NO
Cable entry orientation: RADIAL					
GWJ 5011 B	Type 2	L1 - N- PE - CC - CP	32A	7.4 kW	YES
GWJ 5012 B	Type 2	L1/L2/L3 - N- PE - CC - CP	32A	22 kW	YES
GWJ 5013 B	Type 2	L1 - N- PE - CC - CP	32A	7.4 kW	NO
GWJ 5014 B	Type 2	L1/L2/L3 - N- PE - CC - CP	32A	22 kW	NO

CHARACTERISTICS:Charging sockets complying with international standard IEC 62196-2. GWJ50x3B and GWJ50x4B codes without gate block, indicated for creating charging stations without controlled access (example AUTOSTART configuration).
EQUIPMENT:: Locking motor to avoid interruptions during the charging process, internal water drainage system, 3 microswitches to check the exact status and position of the charging socket.
NOTES:Actuator connector for Type 2 socket wiring to be purchased separately (code GWJ5901).

TYPE 2 CHARGING SOCKET, VANDAL-PROOF WITH SHUTTER AND LED SYSTEM - IP55

IP 55 **IK** 10 **GWT** 960°C **UL94** V0

Code	Sockets Type	No. of Poles	Current Max.	Power Max.	Shutter Locking system
Cable entry orientation: REAR					
GWJ 5001 G	Type 2	L1 - N- PE - CC - CP	32A	7.4 kW	YES
GWJ 5002 G	Type 2	L1/L2/L3 - N- PE - CC - CP	32A	22 kW	YES
Cable entry orientation: RADIAL					
GWJ 5011 G	Type 2	L1 - N- PE - CC - CP	32A	7.4 kW	YES
GWJ 5012 G	Type 2	L1/L2/L3 - N- PE - CC - CP	32A	22 kW	YES

CHARACTERISTICS:Charging sockets complying with international standard IEC 62196-2.
EQUIPMENT:: Locking motor to avoid interruptions during the charging process, internal water drainage system, 3 microswitches to check the exact status and position of the charging socket.
Equipped with an internal INTERMITTENT LED lighting system to facilitate insertion of the mobile connector by the Driver/user.
NOTES:Actuator connector for Type 2 socket wiring to be purchased separately (code GWJ5901).

TYPE 2 CHARGING SOCKET, VANDAL-PROOF WITH SHUTTER AND RGB LED SYSTEM - IP55

IP 55 **IK** 10 **GWT** 960°C **UL94** V0

Code	Sockets Type	No. of Poles	Current Max.	Power Max.	Shutter Locking system
Cable entry orientation: REAR					
GWJ 5002 L	Type 2	L1/L2/L3 - N- PE - CC - CP	32A	22 kW	YES
GWJ 5004 L	Type 2	L1/L2/L3 - N- PE - CC - CP	32A	22 kW	NO
Cable entry orientation: RADIAL					
GWJ 5012 L	Type 2	L1/L2/L3 - N- PE - CC - CP	32A	22 kW	YES
GWJ 5014 L	Type 2	L1/L2/L3 - N- PE - CC - CP	32A	22 kW	NO

CHARACTERISTICS:Charging sockets complying with international standard IEC 62196-2.
EQUIPMENT:: "Locking motor to avoid interruptions during the charging process, internal water drainage system, 3 microswitches to check the exact status and position of the charging socket. Equipped with an internal RGB LED lighting system to identify the status of the socket.
Equipped with an internal INTERMITTENT LED lighting system to facilitate insertion of the mobile connector by the Driver/user.
NOTES:Actuator connector for Type 2 socket wiring to be purchased separately (code GWJ5901).

ACCESSORIES TYPE 2 VANDAL-PROOF SOCKETS

ACTUATOR CONNECTOR

Code	Sockets Type	Shutter Locking System
GWJ 5901	Actuator connector + crimp pins kit	Recharging Socket Type 2

TYPE 2 MOBILE CHARGING SOCKETS

TYPE 2 MOBILE CHARGING SOCKET WITH CABLE - IP55 WITH RELATED HOLDER

IP 55 **IK** 10

Code	Socket type	No. of Poles	Max. Current	Power Max.	Type / Cable length/
GWJ 5111 B	Type 2	L1 - N- PE - CC - CP	20 A	4.6 kW	Smooth / 5 metres
GWJ 5112 B	Type 2	L1 - N- PE - CC - CP	32 A	7.4 kW	Smooth / 5 metres
GWJ 5113 B	Type 2	L1/L2/L3 - N- PE - CC - CP	20 A	11 kW	Smooth / 5 metres
GWJ 5114 B	Type 2	L1/L2/L3 - N- PE - CC - CP	32 A	22 kW	Smooth / 5 metres

CHARACTERISTICS: Overmolded rubber inserts to improve grip handling. Cables of different types and lengths may be requested upon request. Per phase supply cable cross-section: max. 6 mm².
Guaranteed IP55 rating with coupling to a GWJ5912 holder to be purchased separately.

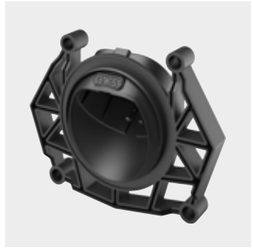
MOBILE CHARGING SOCKET TYPE 2 - IP55 WITH RELATED HOLDER

IP 55 **IK** 10

Code	Sockets Type	No. of Poles	Current Max.	Power Max.
GWJ 5101 B	Type 2	L1 - N- PE - CC - CP	32 A	7.4 kW
GWJ 5102 B	Type 2	L1/L2/L3 - N- PE - CC - CP	32 A	22 kW

CHARACTERISTICS: Overmolded rubber inserts to improve grip handling. Cables of different types and lengths may be requested upon request. Per phase supply cable cross-section: max. 6 mm². Guaranteed IP55 rating with coupling to a GWJ5912 holder to be purchased separately.

TYPE 2 MOBILE CHARGING SOCKETS ACCESSORIES



HOLDER FOR TYPE 2 MOBILE SOCKETS

Code	Installation	Inclination
GWJ 5912	Flush mounting enclosures	40°

CHARACTERISTICS: Can be integrated into charging infrastructure to replace the mobile connector. Its incline reduces the external bulk of the connector + stored cable.

RESTART AUTOTEST 2 POLES - VERSIONS COUPLED WITH RCCB'S

AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CHECK OF THE INSULATION AND AUTOMATIC TEST OF THE RESIDUAL CURRENT CIRCUIT BREAKER - PRO VERSION

Code	Rated current	Idn	Type of RCCB	Rated voltage	No. of modules EN 50022	Conf. Imb.
GW 90 901 N	25 A	30 mA	A[IR]	230 V	5	1/4
GW 90 902 N	40 A	30 mA	A[IR]	230 V	5	1/4
GW 90 913	63 A	30 mA	A[IR]	230 V	5	1/4
GW 90 911 B	25 A	30 mA	B	230 V	7	1/2
GW 90 912 B	40 A	30 mA	B	230 V	7	1/2
GW 90 913 B	63 A	30 mA	B	230 V	7	1/2

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation prior to the automatic reclosure. In the event of a fault (earth leakage), ReStart will not reset the circuit breaker but will continue to monitor the circuit every 2 minutes reclosing the circuit breaker when safe to do so. In the meantime the integrated configurable auxiliary contact will change state to indicate that the automatic reset did not take place.
Compatible with:
-GWD0953 WiFi Interface Module
-GW90992 ModBus RS485 interface module.
NOTE: the Autotest function automatically and periodically (every 28 days) tests the RCCB, without interrupting the electric power supply, thus maintaining the performance of the residual current protection over time.
230 V ac power supply, phase-neutral.
RCCB's type B and A[IR] Impulse Resistant presents greater resistance to untimely tripping in comparison to standard residual current circuit breakers. Immunity level 8/20μs: 3000A for IR type, 250A for standard type.

RESTART AUTOTEST 4 POLES - VERSIONS COUPLED WITH RCCB'S

AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CHECK OF THE INSULATION AND AUTOMATIC TEST OF THE RESIDUAL CURRENT CIRCUIT BREAKER - PRO VERSION

Code	Rated current	Idn	Type of RCCB	Rated voltage	No. of modules EN 50022	Conf. Imb.
GW 90 921	25 A	30 mA	A[IR]	400 V	7	1/2
GW 90 922	40 A	30 mA	A[IR]	400 V	7	1/2
GW 90 923	63 A	30 mA	A[IR]	400 V	7	1/2
GW 90 921 B	25 A	30 mA	B	400 V	7	1/2
GW 90 922 B	40 A	30 mA	B	400 V	7	1/2
GW 90 923 B	63 A	30 mA	B	400 V	7	1/2

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation prior to the automatic reclosure. In the event of a fault (earth leakage), ReStart will not reset the circuit breaker but will continue to monitor the circuit every 2 minutes reclosing the circuit breaker when safe to do so. In the meantime the integrated configurable auxiliary contact will change state to indicate that the automatic reset did not take place.
Compatible with:
-GW90954 WiFi Interface Module
-GW90992 ModBus RS485 interface module.
NOTE: the Autotest function automatically and periodically (every 28 days) tests the RCCB, without interrupting the electric power supply, thus maintaining the performance of the residual current protection over time.
RCCB's type B and A[IR] Impulse Resistant presents greater resistance to untimely tripping in comparison to standard residual current circuit breakers. Immunity level 8/20μs: 3000A for IR type, 250A for standard type.

RESTART RD 2 POLES - VERSIONS TO BE COUPLED WITH RCCB'S IDP TYPE A

AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CONTROL OF THE INSULATION - PRO VERSION

Code	Suitable for	Rated voltage	No. of modules EN 50022	Conf. Imb.
GW D0 976	IDP RCCBs - 2P up to 80 A - 30 mA	230 V	1	1/4

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation prior to the automatic reclosure. In the event of a fault (earth leakage), ReStart will not reset the circuit breaker but will continue to monitor the circuit every 2 minutes reclosing the circuit breaker when safe to do so.
Compatible with:
-GWD0951 auxiliary contact
-GWD0953 WiFi Interface Module
-GW90992 ModBus RS485 interface module (only if already coupled with GWD0951 auxiliary contact)
NOTES: cannot be used with 4P RCCBs in 3 modules and type B RCCBs. The ARD must be supplied at 230 Vac phase-neutral.

RESTART RD 4 POLES - VERSIONS TO BE COUPLED WITH RCCB'S IDP

AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CONTROL OF THE INSULATION - PRO VERSION

Code	Suitable for	Rated voltage	No. of modules EN 50022	Conf. Imb.
GW 90 967	IDP RCCBs - 2P up to 80 A e 4P up to 63 A - 30 mA	230 V	3	1/4

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation prior to the automatic reclosure. In the event of a fault (earth leakage), ReStart will not reset the circuit breaker but willcontinue to monitor the circuit every 2 minutes reclosing the circuit breaker when safe to do so. In the meantime the integrated configurable auxiliary contact will change state to indicate thatthe automatic reset did not take place.
Compatible with:
- GW90945 WiFi Interface Module
- GW90992 ModBus RS485 interface module.
NOTES: they cannot be used with 4P RCCBs in 3 modules. 230 V ac power supply, phase-neutral.

RESTART ACCESSORIES

ACCESSORIES FOR RESTART DEVICES

BUS RS485 COMMUNICATION INTERFACE MODULE

Code	Suitable for	No. of modules EN 50022	Conf. Imb.
GW 90 992	ReStart Autotest 2P-4P/ReStart Rd PRO 2P-4P	1	1

CHARACTERISTICS: the BUS module, by means software available on www.GEWISS.com website, allows to:
- monitor the status of circuit breaker coupled with ReStart
- control Autotest fuuction remotely
- manage automatic reclosing function remotely.
APPLICATION: it allows the installation of ReStart device in monitoring systems with BUS RS485 communication protocol.

IDP - A TYPE ISTANTANEOUS

RESIDUAL CURRENT CIRCUIT BREAKERS

Code	Rated current	Idn	Rated voltage	Auxiliaries compatibility	ReStart compatibility	No. of modules EN 50022	Conf. Imb.
No. of poles: 2P							
GW D4 012	25 A	30 mA	230 V	Yes	Yes	2	1/6
GW D4 032	40 A	30 mA	230 V	Yes	Yes	2	1/6
GW D4 052	63 A	30 mA	230 V	Yes	Yes	2	1/6
No. of poles: 4P							
GW D4 112	25 A	30 mA	400 V	Yes	Yes	4	1/3
GW D4 132	40 A	30 mA	400 V	Yes	Yes	4	1/3
GW D4 152	63 A	30 mA	400 V	Yes	Yes	4	1/3

IDP - A[IR] TYPE ISTANTANEOUS IMPULSE RESISTANT

RESIDUAL CURRENT CIRCUIT BREAKERS

Code	Rated current	Idn	Rated voltage	Auxiliaries compatibility	ReStart compatibility	No. of modules EN 50022	Conf. Imb.
No. of poles: 2P							
GW D4 202	25 A	30 mA	230 V	Yes	Yes	2	1/6
GW D4 205	40 A	30 mA	230 V	Yes	Yes	2	1/6
GW D4 208	63 A	30 mA	230 V	Yes	Yes	2	1/6
No. of poles: 4P							
GW D4 217	25 A	30 mA	400 V	Yes	Yes	4	1/3
GW D4 220	40 A	30 mA	400 V	Yes	Yes	4	1/3
GW D4 223	63 A	30 mA	400 V	Yes	Yes	4	1/3

IDP - A[EV] TYPE ISTANTANEOUS

RESIDUAL CURRENT CIRCUIT BREAKERS

Code	Rated current	Idn	Rated voltage	Auxiliaries compatibility	ReStart compatibility	No. of modules EN 50022	Conf. Imb.
No. of poles: 2P							
GW D4 562	40 A	30 mA	230 V	Si	Yes	4	1/3
No. of poles: 4P							
GW D4 567	40 A	30 mA	400 V	Si	Yes	4	1/3

APPLICATIONS: electric vehicle charging.

CHARACTERISTICS: type A[EV] trips in the event of fault currents with direct current components greater than 6mA. Type A[EV] presents greater resistance to mains disturbances and atmospheric discharges in comparison to standard residual current circuit breakers. Immunity level 8/20µs is 3000 A.

IDP - B TYPE

RESIDUAL CURRENT CIRCUIT BREAKERS

Code	Rated current	Idn	Rated voltage	Auxiliaries compatibility	ReStart compatibility	No. of modules EN 50022	Conf. Imb.
No. of poles: 2P							
GW D4 502	25 A	30 mA	230 V	Yes	Yes	4	1/3
GW D4 507	40 A	30 mA	230 V	Yes	Yes	4	1/3
GW D4 512	63 A	30 mA	230 V	Yes	Yes	4	1/3
No. of poles: 4P							
GW D4 527	25 A	30 mA	400 V	Yes	Yes	4	1/3
GW D4 532	40 A	30 mA	400 V	Yes	Yes	4	1/3
GW D4 537	63 A	30 mA	400 V	Yes	Yes	4	1/3

CHARACTERISTICS: type B presents greater resistance to mains disturbances and atmospheric discharges in comparison to standard residual current circuit breakers. Immunity level 8/20µs is 3000 A.

ELECTRICAL AUXILIARIES FOR RCCBs IDP

AUXILIARY CONTACTS FOR OPEN/CLOSED POSITION

Code	Suitable for	Contact rating in AC	Contact rating in DC	Type of contacts	No. of modules EN 50022	Pack Carton
GW D6 002	IDP 2P-4P	6 A (230 V) 3 A (400 V)	6 A (24 V) 2 A (60 V) 1,5 A (110 V) 1 A (250 V)	1 Changeover	0.5	1/16

APPLICATIONS: signals the position of circuit breaker contacts, when manually open or tripped.

MT 60 - C CURVE - 6000 A (EN 60898) - 10 KA (EN 60947-2)

MINIATURE CIRCUIT BREAKERS

BREAKING CAPACITY 1P			
230V	EN60898 Icn	EN60947-2 Icu	
In=1÷63 A	6000 A	10 kA	

BREAKING CAPACITY 2-3-4P			
230V	EN60898 Icn	EN60947-2 Icu	
In=1÷63 A	6000 A	20 kA	

BREAKING CAPACITY 2-3-4P			
400V	EN60898 Icn	EN60947-2 Icu	
In=1÷63 A	6000 A	10 kA	

Code	Rated current	Rated voltage	No. of modules EN 50022	Conf. Imb.
No. of poles: 1P				
GW 92 007	16 A	230 - 400 V	1	6/24
GW 92 008	20 A	230 - 400 V	1	6/24
GW 92 009	25 A	230 - 400 V	1	6/24
GW 92 010	32 A	230 - 400 V	1	6/24
GW 92 011	40 A	230 - 400 V	1	6/24
GW 92 012	50 A	230 - 400 V	1	6/24
GW 92 013	63 A	230 - 400 V	1	6/24
No. of poles: 2P				
GW 92 047	16 A	230 - 400 V	2	3/12
GW 92 048	20 A	230 - 400 V	2	3/12
GW 92 049	25 A	230 - 400 V	2	3/12
GW 92 050	32 A	230 - 400 V	2	3/12
GW 92 051	40 A	230 - 400 V	2	3/12
GW 92 052	50 A	230 - 400 V	2	3/12
GW 92 053	63 A	230 - 400 V	2	3/12
No. of poles: 3P				
GW 92 067	16 A	230 - 400 V	3	2/8
GW 92 068	20 A	230 - 400 V	3	2/8
GW 92 069	25 A	230 - 400 V	3	2/8
GW 92 070	32 A	230 - 400 V	3	2/8
GW 92 071	40 A	230 - 400 V	3	2/8
GW 92 072	50 A	230 - 400 V	3	2/8
GW 92 073	63 A	230 - 400 V	3	2/8
No. of poles: 4P				
GW 92 087	16 A	230 - 400 V	4	1/3
GW 92 088	20 A	230 - 400 V	4	1/3
GW 92 089	25 A	230 - 400 V	4	1/3
GW 92 090	32 A	230 - 400 V	4	1/3
GW 92 091	40 A	230 - 400 V	4	1/3
GW 92 092	50 A	230 - 400 V	4	1/3
GW 92 093	63 A	230 - 400 V	4	1/3

MT 60 - D CURVE - 6000 A (EN 60898) - 10 KA (EN 60947-2)

MINIATURE CIRCUIT BREAKERS

BREAKING CAPACITY 1P			
230V	EN60898 Icn	EN60947-2 Icu	
In=6÷40 A	6000 A	10 kA	

BREAKING CAPACITY 2-3-4P			
230V	EN60898 Icn	EN60947-2 Icu	
In=6÷40 A	6000 A	20 kA	

BREAKING CAPACITY 2-3-4P			
400V	EN60898 Icn	EN60947-2 Icu	
In=6÷40 A	6000 A	10 kA	

Code	Rated current	Rated voltage	No. of modules EN 50022	Conf. Imb.
No. of poles: 1P				
GW 92 407	16 A	230 - 400 V	1	6/24
GW 92 408	20 A	230 - 400 V	1	6/24
GW 92 409	25 A	230 - 400 V	1	6/24
GW 92 410	32 A	230 - 400 V	1	6/24
GW 92 411	40 A	230 - 400 V	1	6/24
No. of poles: 2P				
GW 92 447	16 A	230 - 400 V	2	3/12
GW 92 448	20 A	230 - 400 V	2	3/12
GW 92 449	25 A	230 - 400 V	2	3/12
GW 92 450	32 A	230 - 400 V	2	3/12
GW 92 451	40 A	230 - 400 V	2	3/12
No. of poles: 3P				
GW 92 467	16 A	230 - 400 V	3	2/8
GW 92 468	20 A	230 - 400 V	3	2/8
GW 92 469	25 A	230 - 400 V	3	2/8
GW 92 470	32 A	230 - 400 V	3	2/8
GW 92 471	40 A	230 - 400 V	3	2/8
No. of poles: 4P				
GW 92 487	16 A	230 - 400 V	4	1/3
GW 92 488	20 A	230 - 400 V	4	1/3
GW 92 489	25 A	230 - 400 V	4	1/3
GW 92 490	32 A	230 - 400 V	4	1/3
GW 92 491	40 A	230 - 400 V	4	1/3

ELECTRICAL AUXILIARIES FOR CIRCUIT BREAKERS MTC / MT / MTHP / MDC

AUXILIARY CONTACT OF OPEN/CLOSED POSITION

Code	Contact rating in AC	Contact rating in DC	Type of contacts	No. of modules EN 50022	Conf. Imb.
GW 96 001	6 A (230 V) 3 A (400 V)	6 A (24 V) 2 A (60 V) 1,5 A (110 V) 1 A (250 V)	1 Changeover	0.5	1/16

APPLICATIONS: signals the position of circuit breaker contacts, when manually open or tripped.

SWITCH DISCONNECTORS (EN 60947-3)

AC SWITCH DISCONNECTORS

Code	Rated current	No. of modules EN 50022	Rated voltage AC	Conf. Imb.
No. of poles: 2P				
GW 96 114	32 A	2	415 V	3/12
GW 96 115	40 A	2	415 V	3/12
GW 96 156	63 A	2	415 V	3/12
GW 96 157	80 A	2	415 V	3/12
GW 96 158	100 A	2	415 V	3/12
GW 96 159	125 A	2	415 V	3/12
No. of poles: 3P				
GW 96 124	32 A	3	415 V	2/8
GW 96 125	40 A	3	415 V	2/8
GW 96 166	63 A	3	415 V	2/8
GW 96 167	80 A	3	415 V	2/8
GW 96 168	100 A	3	415 V	2/8
GW 96 169	125 A	3	415 V	2/8
No. of poles: 4P				
GW 96 134	32 A	4	415 V	1/3
GW 96 135	40 A	4	415 V	1/3
GW 96 176	63 A	4	415 V	1/3
GW 96 177	80 A	4	415 V	1/3
GW 96 178	100 A	4	415 V	1/3
GW 96 179	125 A	4	415 V	1/3

NOTES: they can be combined ONLY with an auxiliary position contact GW96001.

CONTACTORS CTR

CONTACTORS

Code	Contacts	Control coil voltage (V)	No. of modules EN 50022	Conf. Imb.
Rated current (AC-1/AC-7a): 20 A - CTR20				
GW D6 703	2NA	230 ac	1	6/24
GW D6 709	4NA	230 ac	2	3/12
Rated current (AC-1/AC-7a): 25 A - CTR25				
GW D6 712	2NA	230 ac - 220 dc	2	3/12
GW D6 715	4NA	230 ac - 220 dc	2	3/12
Rated current (AC-1/AC-7a): 40 A - CTR40				
GW D6 721	2NA	230 ac - 220 dc	3	2/8
GW D6 724	4NA	230 ac - 220 dc	3	2/8
Rated current (AC-1/AC-7a): 63 A - CTR63				
GW D6 731	2NA	230 ac - 220 dc	3	2/8
GW D6 734	4NA	230 ac - 220 dc	3	2/8

APPLICATIONS: they are used for automatic control of electrical devices with high number of operations. The switching of contacts happens when the coil is both energized and de-energized. For other applications than AC-1/AC-7a utilization category, please consult the technical pages.
CHARACTERISTICS: they can be combined with auxiliary contacts and sealing terminal covers.
NOTE: it's suggested the use of a spacer insert between adjacent contactors to ensure optimum operation.

ACCESSORIES FOR CTR CONTACTORS AND RLM INSTALLATION RELAYS

AUXILIARY CONTACTS

Code	Contacts	Contact rating in AC-15	No. of modules EN 50022	Conf. Imb.
GW D6 761	2NA	6 A (230 V) 4 A (400 V)	0.5	1/12

APPLICATION: used in order to signal the contacts position (open or closed).
NOTE: each device can be associated with 1 auxiliary contact. Auxiliary contacts cannot be coupled with GWD6608 and GWD6610 installation relays.

ENERGY METERS

SINGLE-PHASE DIGITAL ENERGY METERS FOR DIRECT CONNECTION

Code	Type MID	Modbus integrated	Accuracy	I max (A)	Rated voltage (V)	No. of modules EN 50022	Conf. Imb.
GW D6 802	Yes	No	1	40 A	230 ac	1	1/5
GW D6 803	Yes	Yes	1	40 A	230 ac	1	1/5

APPLICATION: allow the measurement and visualisation on the display (N. digit: 5 units + 2 decimals) of the active energy values (exported and imported), istantaneous active power (exported and imported), voltage, current, power factor and frequency.
If GWD6802 is used with the MODBUS GWD6820 interface, the measured values can be sent on Modbus RS485.
GWD6803 does not need the use of MODBUS GWD6820 interface for the transmission of measured values on Modbus RS485.
CHARACTERISTICS: the energy meters have an impulse output for remote energy consumption control.

THREE-PHASE DIGITAL ENERGY METERS

Code	Type MID	Modbus integrated	Accuracy	Connection	Rated voltage (V)	No. of modules EN 50022	Conf. Imb.
GW D6 804	Yes	Yes	1 (active energy) 2 (reactive energy)	Direct (I max=80 A)	400 ac	4	1/2
GW D6 805	Yes	Yes	1 (active energy) 2 (reactive energy)	Using C.T./5 A	400 ac	4	1/2
GW D6 807	Yes	No	1 (active energy) 2 (reactive energy)	Direct (I max=80 A)	400 ac	4	1/2
GW D6 809	Yes	No	1 (active energy) 2 (reactive energy)	Using C.T./5 A	400 ac	4	1/2

APPLICATION: allow the measurement and the visualization on display (N. digit: 7 units + 2 decimals) of the active and reactive energy values (exported and imported), and instantaneous active and reactive power values (exported and imported), apparent power, voltage, current, power factor, frequency, voltage THD and current THD.
If GWD6807 and GWD6809 are used with the MODBUS GWD6820 interface, the measured values can be sent on Modbus RS485.
The energy meters GWD6804 and GWD6805 do not need the use of MODBUS GWD6820 interface.
CHARACTERISTICS: the energy meters have two impulse outputs for remote energy consumption control.

COMMUNICATION INTERFACES FOR SINGLE-PHASE AND THREE-PHASE ENERGY METERS

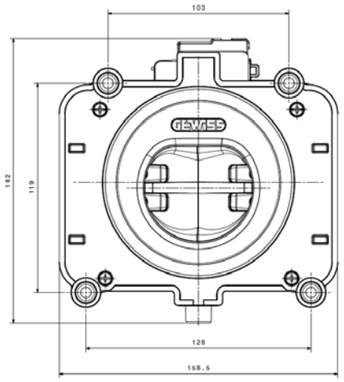
Code	Technology	No. of modules EN 50022	Conf. Imb.
GW D6 820	RS485 MODBUS	1	1/5

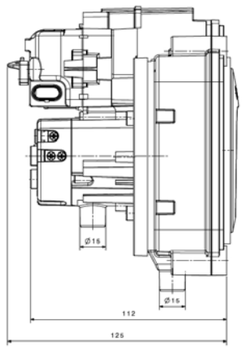
APPLICATION: use the MODBUS RS485 to send the values measured by the energy meters GWD6802, GWD6807 and GWD6809.
The interfaces are optically coupled with the energy meters if installed side-by-side.

SOCKET WITH REAR WIRING – TECHNICAL DATASHEET

CODE	GWJ 5001 B	GWJ 5002 B	GWJ 5003 B	GWJ 5004 B
Product type	Socket with rear wiring			
Socket type	Type 2, with vandal-proof locking system		Type 2, without vandal-proof locking system	
Standard and Regulations	IEC 62196-1, IEC 62196-2, IEC 61851-1, EV-Ready			
ELECTRICAL CHARACTERISTICS				
Power supply	Single Phase	Three Phases	Single Phase	Three Phases
Poles number (type)	5 (L, N, PE, CP, PP)	7 (L1, L2, L3, N, PE, CP, PP)	5 (L, N, PE, CP, PP)	7 (L1, L2, L3, N, PE, CP, PP)
Nominal current	32A			
Nominal voltage	200V-250V (L, N, PE) 30V (PP, CP)	380V-400V (L, N, PE) 30V (PP, CP)	200V-250V (L, N, PE) 30V (PP, CP)	380V-400V (L, N, PE) 30V (PP, CP)
Nominal frequency	50-60Hz			
Insulation voltage	500V			
Protections (grade)	Shutter (IPXXD)			
MECHANICAL CHARACTERISTICS				
Colore	Black			
IP protection	IP55 (both plug inserted or not)			
Water draining system	Double draining system			
Impact protection	IK10			
Glow Wire Test	850°C (active parts) / 960°C (external parts)			
Thermo-pressure with ball test	125°C (active parts) / 80°C (passive parts)			
Working temperature	-30°C / +50°C			
Storage temperature	-40°C / +70°C			
Cabling input	Rear wiring input			
Maximum wire diameter teminals side	max. 6 mm² (power poles, with screws) - max. 2,5 mm² (control poles, with screws)			
Self-extinguishing external parts	V0 according to UL94			
MTTF	10'000 insertions, without load			
Lighting System				
Lighting system	NONE			
Lighting type	n/a			
OPTIONAL ACCESSORIES				
List of optional parts	GWJ 5901 Female connector for locking actuator			

Design and dimensional tables

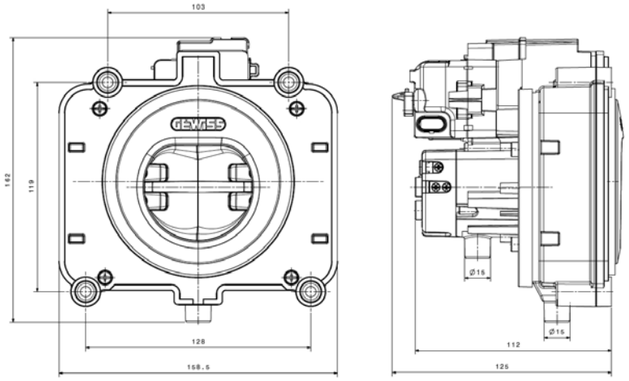




SOCKET WITH REAR WIRING AND LIGHTING SYSTEM – TECHNICAL DATASHEET

CODE	GWJ 5001 G	GWJ 5002 G	GWJ 5002 L	GWJ 5004 L
Product type	Socket with rear wiring			
Socket type	Type 2, with vandal-proof locking system	Type 2, with vandal-proof locking system	Type 2, with vandal-proof locking system	Type 2, without vandal-proof locking system
Standard and Regulations	IEC 62196-1, IEC 62196-2, IEC 61851-1, EV Ready			
ELECTRICAL CHARACTERISTICS				
Power supply	Single Phase	Three Phases	Three Phases	Three Phases
Poles number (type)	5 (L, N, PE, CP, PP)	7 (L1, L2, L3, N, PE, CP, PP)	7 (L1, L2, L3, N, PE, CP, PP)	7 (L1, L2, L3, N, PE, CP, PP)
Nominal current	32A			
Nominal voltage	200V-250V (L, N, PE) 30V (PP, CP)	380V-400V (L, N, PE) 30V (PP, CP)	380V-400V (L, N, PE) 30V (PP, CP)	380V-400V (L, N, PE) 30V (PP, CP)
Nominal frequency	50-60Hz			
Insulation voltage	500V			
Protections (grade)	Shutter (IPXXD)			
Supply for LED	12 V			
MECHANICAL CHARACTERISTICS				
Colour	Black			
IP protection	IP55 (both plug inserted or not)			
Water draining system	Double draining system			
Impact protection	IK10			
Glow Wire Test	850°C (active parts) / 960°C (external parts)			
Thermo-pressure with ball test	125°C (active parts) / 80°C (passive parts)			
Working temperature	-30°C / +50°C			
Storage temperature	-40°C / +70°C			
Cabling input	Cabling input Rear wiring input			
Maximum wire diameter teminals side	max. 6 mm² (power poles, with screws) - max. 2,5 mm² (control poles, with screws)			
Self-extinguishing external parts	V0 according to UL94			
MTTF	10'000 insertions, without load			
Lighting System				
Lighting system	YES			
Lighting type	Intermittent		RGB	
OPTIONAL ACCESSORIES				
List of optional parts	GWJ 5901 Female connector for locking actuator			

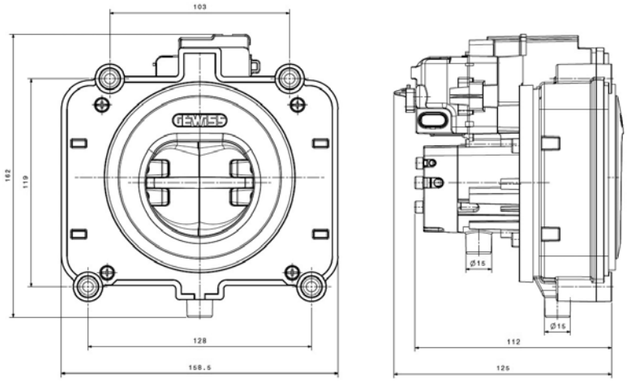
Design and dimensional tables



SOCKET WITH RADIAL WIRING – TECHNICAL DATASHEET

CODE	GWJ 5011 B	GWJ 5012 B	GWJ 5013 B	GWJ 5014 B
Product type	Socket with radial wiring			
Socket type	Type 2, with vandal-proof locking system		Type 2, without vandal-proof locking system	
Standard and Regulations	IEC 62196-1, IEC 62196-2, IEC 61851-1			
ELECTRICAL CHARACTERISTICS				
Power supply	Single Phase	Three Phases	Single Phase	Three Phases
Poles number (type)	5 (L, N, PE, CP, PP)	7 (L1, L2, L3, N, PE, CP, PP)	5 (L, N, PE, CP, PP)	7 (L1, L2, L3, N, PE, CP, PP)
Nominal current	32A			
Nominal voltage	200V-250V (L, N, PE) 30V (PP, CP)	380V-400V (L, N, PE) 30V (PP, CP)	200V-250V (L, N, PE) 30V (PP, CP)	380V-400V (L, N, PE) 30V (PP, CP)
Nominal frequency	50-60Hz			
Insulation voltage	500V			
Protections (grade)	Shutter (IPXXD)			
PROTECTIONS (GRADE)				
Colour	Black			
IP protection	IP55 (both plug inserted or not)			
Water draining system	Double draining system			
Impact protection	IK10			
Glow Wire Test	850°C (active parts) / 960°C (external parts)			
Thermo-pressure with ball test	125°C (active parts) / 80°C (passive parts)			
Working temperature	-30°C / +50°C			
Storage temperature	-40°C / +70°C			
Cabling input	Radial wiring input			
Maximum wire diameter teminals side	max. 6 mm² (power poles, with screws) - max. 2,5 mm² (control poles, with screws)			
Self-extinguishing external parts	V0 according to UL94			
MTTF	10'000 insertions, without load			
Lighting System				
Lighting system	NONE			
Lighting type	n/a			
OPTIONAL ACCESSORIES				
List of optional parts	GWJ 5901 Female connector for locking actuator			

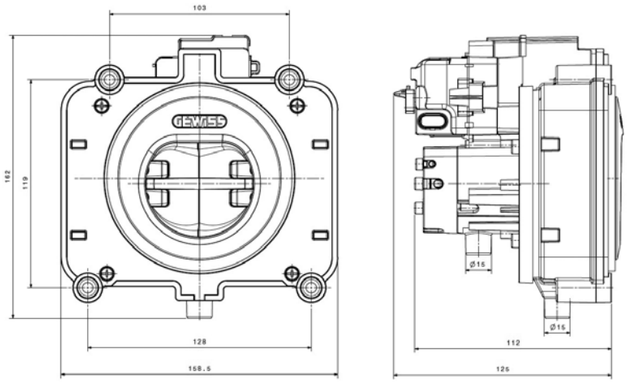
Design and dimensional tables



SOCKET WITH RADIAL WIRING AND LIGHTING SYSTEM – TECHNICAL DATASHEET

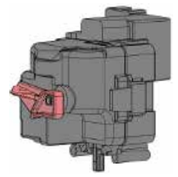
CODE	GWJ 5011 G	GWJ 5012 G	GWJ 5012 L	GWJ 5014 L
Product type	Socket with radial wiring			
Socket type	Type 2, with vandal-proof locking system	Type 2, with vandal-proof locking system	Type 2, with vandal-proof locking system	Type 2, without vandal-proof locking system
Standard and Regulations	IEC 62196-1, IEC 62196-2, IEC 61851-1			
ELECTRICAL CHARACTERISTICS				
Power supply	Single Phase	Three Phases	Three Phases	Three Phases
Poles number (type)	5 (L, N, PE, CP, PP)	7 (L1, L2, L3, N, PE, CP, PP)	7 (L1, L2, L3, N, PE, CP, PP)	7 (L1, L2, L3, N, PE, CP, PP)
Nominal current	32A			
Nominal voltage	200V-250V (L, N, PE) 30V (PP, CP)	380V-400V (L, N, PE) 30V (PP, CP)	380V-400V (L, N, PE) 30V (PP, CP)	380V-400V (L, N, PE) 30V (PP, CP)
Nominal frequency	50-60Hz			
Insulation voltage	500V			
Protections (grade)	Shutter (IPXXD)			
Supply for LED	12 V			
MECHANICAL CHARACTERISTICS				
Colour	Black			
IP protection	IP55 (both plug inserted or not)			
Water draining system	Double draining system			
Impact protection	IK10			
Glow Wire Test	850°C (active parts) / 960°C (external parts)			
Thermo-pressure with ball test	125°C (active parts) / 80°C (passive parts)			
Working temperature	-30°C / +50°C			
Storage temperature	-40°C / +70°C			
Cabling input	Radial wiring input			
Maximum wire diameter teminals side	max. 6 mm² (power poles, with screws) - max. 2,5 mm² (control poles, with screws)			
Self-extinguishing external parts	V0 according to UL94			
MTTF	10'000 insertions, without load			
Lighting System				
Lighting system	YES			
Lighting type	Intermittent		RGB	
OPTIONAL ACCESSORIES				
List of optional parts	GWJ 5901 Female connector for locking actuator			

Design and dimensional tables

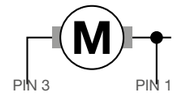


OPERATING PARAMETERS: LOCKING ACTUATORS

The single actuator that performs both the blocking of the gate valves and locks the plug in the socket is of the bistable type. Below are the operating parameters and the functional diagram.



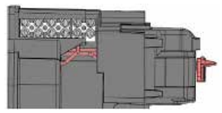
Nominal Voltage	12 V
Voltage range	9-15,5 V
Current Absorption Peak	3,2 A
Current without load	≤ 250 mA
Operating angle	<=78°
Intervention time	40 ms < t < 200 ms



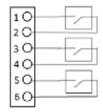
Unlocked	+	-
Locked	-	+

MICRO CONTACTS CONNECTIONS

Onboard electronics can check the actual state of the socket using the signals it receives from three equipped NO micro-contacts. Connection diagram of the micro-contacts and operating parameters are reported below.



Terminal Block
Clamping Capacity:
0,75 – 2,5 mm²



MICRO A: Deactivated Lock

MICRO B: Activated Lock

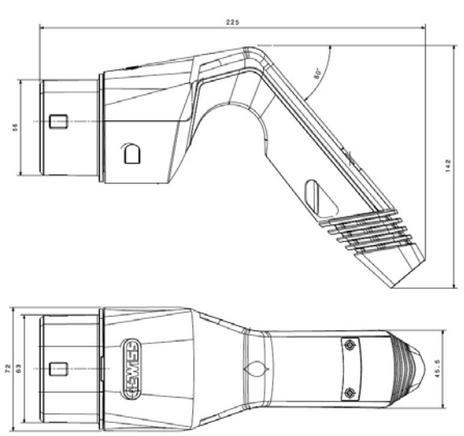
MICRO C: Open gate-valves

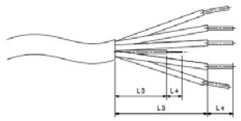
Technical Specification Micro-Contacts:
Maximum nominal Voltage: 125 Vac
Maximum nominal Current: 5A

T2 MOBILE SOCKET WITH CABLE – TECHNICAL DATASHEET

CODE	GWJ 5111 B	GWJ 5112 B	GWJ 5113 B	GWJ 5114 B
Product type	Type 2 connector with cable			
Standard and Regulations	IEC 62196-1, IEC 62196-2, IEC 61851-1			
ELECTRICAL CHARACTERISTICS				
Power supply	Single Phase		Three Phases	
Poles number (type)	5 (L, N, PE, CP, PP)		7 (L1, L2, L3, N, PE, CP, PP)	
Nominal current	20A	32A	16A	32A
Nominal voltage	230V AC		400V AC	
Nominal frequency	50-60Hz			
Insulation voltage	500V			
MECHANICAL CHARACTERISTICS				
Connector				
Handle colour	Light Grey RAL 7035			
Overmoulding colour	Dark Grey RAL 7016			
Socket and cable gland colour	Black			
IP protection	IP55 (with relative holder GWJ5912)			
Impact protection	IK10			
Glow Wire Test	850°C (active parts) / 650°C (external parts)			
Working Temperature	-30°C / +50°C			
Storage Temperature	-40°C / +70°C			
Maximum wire diameter teminals side	max. 6 mm² (power poles, with screws) - max. 2,5 mm² (control poles, with screws)			
Cable				
Type	Flat			
Length	5 mt. (custom sizes possible)			
Size	3x2,5 mm² + 1x0,5 mm²	3x6 mm² + 1x0,5 mm²	5x2,5 mm² + 1x0,5 mm²	5x6 mm² + 1x0,5 mm²
Terminals type	Without sheath, single wire with ferrule			
OPTIONAL ACCESSORIES				
List of optional parts	GWJ 5912 Recessed holder for type 2 connector			

Design and dimensional tables



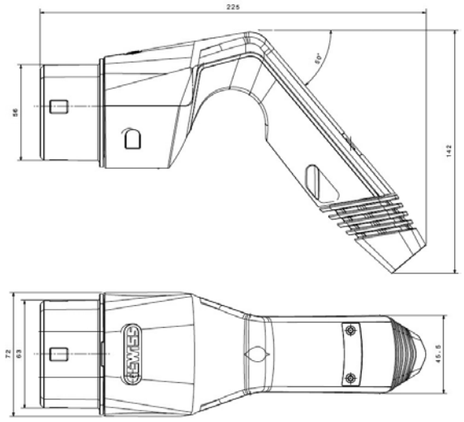


White	250	9

T2 MOBILE SOCKET WITHOUT CABLE CONNECTOR WITHOUT CABLE – TECHNICAL CHARACTERISTICS

CODE	GWJ 5101 B	GWJ 5102 B
Product type	Type 2 connector, without cable	
Standard and Regulations	IEC 62196-1, IEC 62196-2, IEC 61851-1	
ELECTRICAL CHARACTERISTICS		
Power supply	Single Phase	Three Phases
Poles number (type)	5 (L, N, PE, CP, PP)	7 (L1, L2, L3, N, PE, CP, PP)
Nominal current	32A	32A
Nominal voltage	230V AC	400V AC
Nominal frequency	50-60Hz	
Insulation voltage	500V	
MECHANICAL CHARACTERISTICS		
Connector		
Handle colour	Light Grey RAL 7035	
Overmoulding colour	Dark Grey RAL 7016	
Socket and cable gland colour	Black	
IP protection	IP55 (with relative holder GWJ5912)	
Impact protection	IK10	
Glow Wire Test	850°C (active parts) / 650°C (external parts)	
Working Temperature	-30°C / +50°C	
Storage Temperature	-40°C / +70°C	
Maximum wire diameter teminals side	max. 6 mm² (power poles, with screws) - max. 2,5 mm² (control poles, with screws)	
Cable		
Type	NONE	
Length	n/a	
Size	n/a	
OPTIONAL ACCESSORIES		
List of optional parts	GWJ 5912 Recessed holder for type 2 connector	

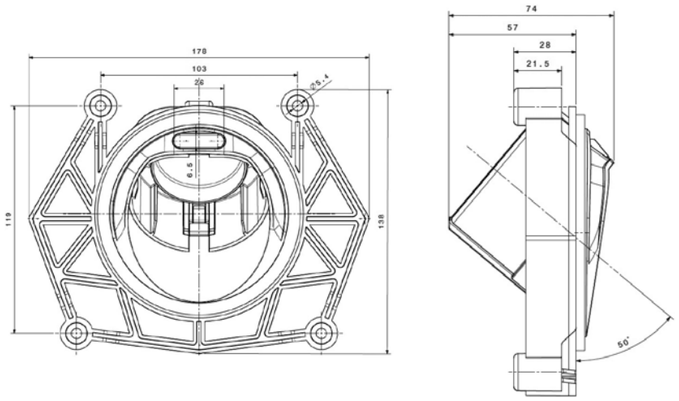
Design and dimensional tables



OPTIONAL ACCESSORIES FOR SOCKETS AND CONNECTORS – TECHNICAL CHARACTERISTICS

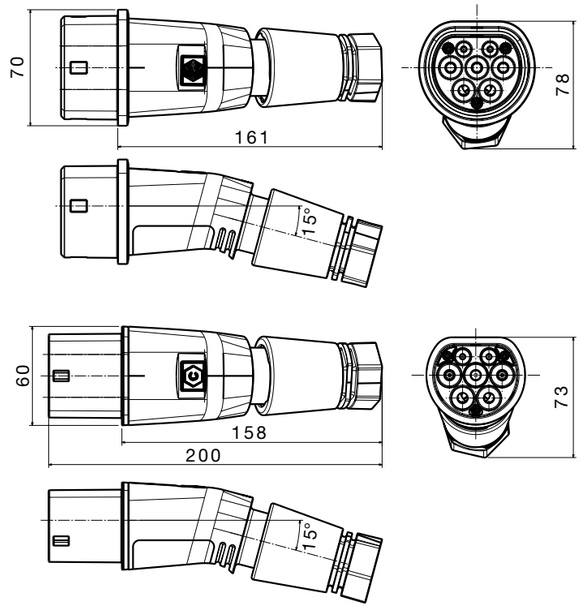
CODE	GWJ 5901	GWJ 5912
Product type	Female connector for locking actuator	Holder for Type 2 connector
Standard and Regulations	n/a	IEC 62196-1, IEC 62196-2
ELECTRICAL CHARACTERISTICS		
Power supply type	DC	n/a
Number of poles	3	n/a
Nominal current	13A max.	n/a
Nominal voltage	12V	n/a
MECHANICAL CHARACTERISTICS		
Colour	Nero	Black
Material	Nylon	Thermoplastic
IP protection	n/a	IP55 together with connector
Impact protection	n/a	IK10
Working temperature	-40°C / +125°C	-30°C / +50°C
Storage temperature	-40°C / +125°C	-40°C / +70°C
Wiring method	Crimp terminals	n/a
OTHER CHARACTERISTICS		
	• Crimp Terminals included (3) • Vandal-proof socket accessory • Provided with locking system • Compatible with AWG 20 wires	• Same fixing support as vandal-proof connector • 50° tilted down holder • With connector restraint system

Dimensional GWJ 5912



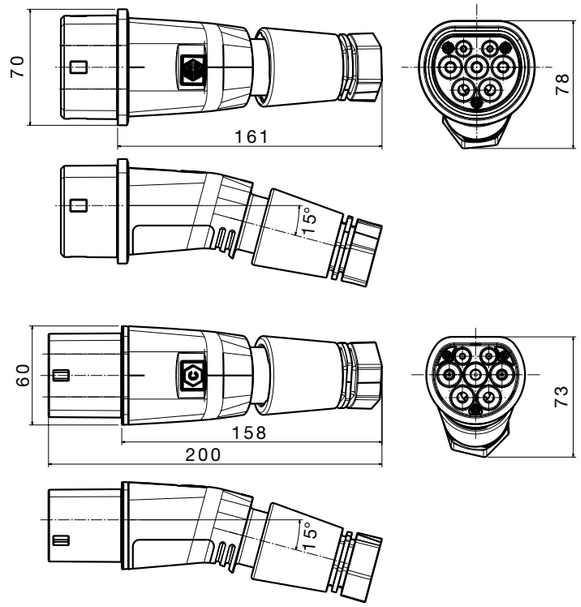
CORDSET SINGLE-PHASE - TECHNICAL CHARACTERISTICS

CODE	GWJ5815BL	GWJ5818BL	GWJ5815CL	GWJ5818CL
Product type	Charging cable Type 2 electric vehicles			
Standard and Regulations	2014/35/EU (LVD), 2014/30/EU (EMC), RoHS 2011/65/EU + 2015/863, RED 2014/53/EU, ERP 2009/125/EU, CPR 305/2011, MID 2014/32/EU, ATEX 2014/34/EU,"EN 62196-1: 2014, EN 62196-2: 2017			
ELECTRICAL CHARACTERISTICS				
Power supply type	Monophase			
Number of poles	L1 - N - PE - CC - CP			
Nominal current	20 A		32 A	
Maximum power	4,6 kW		7,4 kW	
Nominal voltage	230/250 V			
Nominal frequency	50-60 Hz			
MECHANICAL CHARACTERISTICS				
Connector				
Handle color	Black RAL 9004			
Plug and cable gland color	Black RAL 9004			
IP Degree	IP 55 with sheath or cap			
Mechanical resistance	IK10			
Glow Wire Test (according to EN 62196-2):	650 °C/850 °C			
Stocking temperature	-30°C / +50°C			
Cable				
Cable type	FLAT			
Cable length	5m	8m	5m	8m
Cable diameter	2,5 mm^2		6 mm^2	



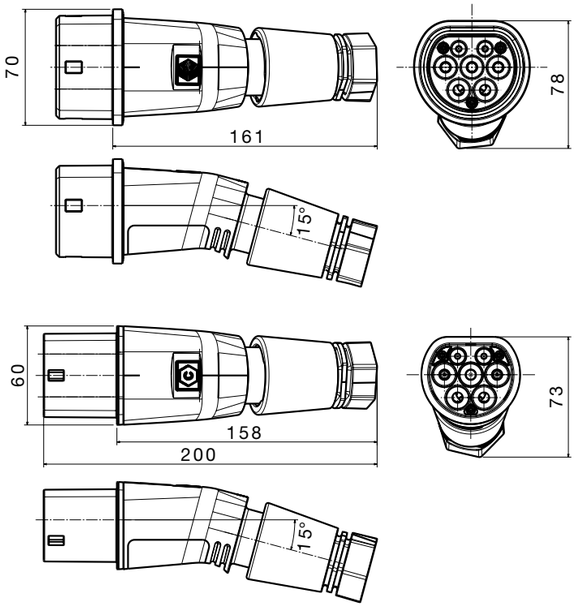
THREE-PHASE CORDSET - TECHNICAL CHARACTERISTICS

CODE	GWJ5835AL	GWJ5838AL	GWJ5835CL	GWJ5838CL
Product type	Charging cable Type 2 electric vehicles			
Standard and Regulations	2014/35/EU (LVD), 2014/30/EU (EMC), RoHS 2011/65/EU + 2015/863, RED 2014/53/EU, ERP 2009/125/EU, CPR 305/2011, MID 2014/32/EU, ATEX 2014/34/EU,"EN 62196-1: 2014, EN 62196-2: 2017			
ELECTRICAL CHARACTERISTICS				
Power supply type	Three-phase			
Number of poles	L1/L2/L3 - N - PE - CC - CP			
Nominal current	16 A		32 A	
Maximum power	11 kW		22 kW	
Nominal voltage	380/480 V			
Nominal frequency	50-60 Hz			
MECHANICAL CHARACTERISTICS				
Connector				
Handle color	Black RAL 9004			
Plug and cable gland color	Black RAL 9004			
IP Degree	IP 55 with sheath or cap			
Mechanical resistance	IK10			
Glow Wire Test (according to EN 62196-2):	650 °C/850 °C			
Stocking temperature	-30°C / +50°C			
Cable				
Cable type	FLAT			
Cable length	5m	8m	5m	8m
Cable diameter	2,5 mm²		6 mm²	



THREE-PHASE SPIRAL CORDSET - TECHNICAL CHARACTERISTICS

CODE	GWJ5835AL	GWJ5838AL
Product type	Charging cable Type 2 electric vehicles	
Standard and Regulations	2014/35/EU (LVD), 2014/30/EU (EMC), RoHS 2011/65/EU + 2015/863, RED 2014/53/EU, ERP 2009/125/EU, CPR 305/2011, MID 2014/32/EU, ATEX 2014/34/EU,"EN 62196-1: 2014, EN 62196-2: 2017	
ELECTRICAL CHARACTERISTICS		
Power supply type	Monophase	Triphase
Number of poles	L1/L2/L3 - N - PE - CC - CP	L1/L2/L3 - N - PE - CC - CP
Nominal current	32 A	32 A
Maximum power	7,4 kW	22 kW
Nominal voltage	230/250 V	380/480 V
Nominal frequency	50-60 Hz	50-60 Hz
MECHANICAL CHARACTERISTICS		
Connector		
Handle color	Black RAL 9004	
Plug and cable gland color	Black RAL 9004	
Degree of protection	IP 55 with sheath or cap	IP 55 with sheath or cap
Impact resistance	IK10	IK10
Glow Wire Test (according to EN 62196-2):	650 °C/850 °C	650 °C/850 °C
Stocking temperature	-30°C / +50°C	-30°C / +50°C
Cable		
Cable type	SPIRAL	SPIRAL
Cable length	4 m	4 m
Cable diameter	6 mm²	6 mm²



RESTART AUTOTEST

TECHNICAL DATA		
TYPE		**ReStart Autotest PRO**
		
Electrical characteristics		
Standards:		**IEC EN 63024, IEC EN 61008-1**
Distribution system:		TT - TN-S
Rated operational voltage (Ue):	**(V)**	230 a.c. [1] 400 a.c.
Minimum operating voltage (min Ue)	**(V)**	85% Ue
Maximum operating voltage (max Ue):	**(V)**	110% Ue
Rated insulation voltage (Ui):	**(V)**	500
Dielectric strength test voltage between pole and earth:	**(V)**	2500 AC for 1 minute
Rated impulse withstand voltage (Uimp):	**(kV)**	4
Overvoltage category:		III
Rated frequency:	**(Hz)**	50
Residual making and breaking capacity (IΔm):	**(A)**	630
Rated conditional residual short-circuit current with fuse (IΔc):	**(A)**	Type A[IR] 10000 (gL 63A) for In=25-40A 10000 (gL 80A) for In=63A Type B 10000 (gL 63A) for In=25-40-63A
Number of poles:		2 - 4
Type of associated residual current circuit breaker:		A[IR] - B
Rated current (In):	**(A)**	25 - 40 - 63
Rated residual operating current (IΔn):	**(mA)**	30
Rated non-operating resistance between live parts and earth (Rdo):	**(kΩ)**	8
Rated operating resistance between live parts and earth (Rd):	**(kΩ)**	16
Power loss at In:	**(W)**	2,2 (25A) 5,4 (40A) 6,2 (63A) for 2P 3,5 (25A) 6 (40A) 12 (63A) for 4P
Off-load absorbed power:	**(VA)**	4 (cosφ=0,2)
Power absorbed during automatic reclosing:	**(VA)**	41 (cosφ=0,5)
Power supply:		from above
Mechanical characteristics		
Width in DIN modules:		Type A[IR]: 5 for 2P Type A[IR]: 7 for 4P Type B: 7
Reclosing time:	**(s)**	10
Autotest cycle time:	**(s)**	7
Maximum operational frequency:	**(man/h)**	30
Max mechanical endurance (total no. operations):		4000
Maximum no. of consecutive automatic reclosure operations [2]:		3
Counter reset time no. of consecutive automatic reclosure operations:	**(s)**	60
Section of circuit breaker terminals:	**(mm²)**	flexible cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10 rigid cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10
Rated tightening torque:	**(Nm)**	2
Mounting position:		any
Degree of protection:		IP20 (terminals) - IP40 (front)
Pollution degree:		2
Operating temperature:	**(°C)**	-25 +60 [3]
Stocking temperature:	**(°C)**	-40 +70
Tropicalization:		55°C - UR 95%
Auxiliary contact characteristics		
Type of contact:		Photomos (potential free contact)
Operating voltage:	**(V)**	5÷230 a.c. / d.c.
Operating current:	**(mA)**	0,6 (min) - 100 cosφ=1 (max)
Operating frequency:	**(Hz)**	50
Category of use:		AC12
Operating mode:		NA / NC / NC + impulse[4]
Terminal section:	**(mm²)**	≤ 2,5
Rated tightening torque:	**(Nm)**	0,4
Autotest function		
Regular and automatic RCCB test:		•
Light signalling for autotest cycle in progress:		•
Light signalling for any device anomaly:		•
ReStart function		
Automatic reclosure for untimely tripping:		•
Earth leakage check:		•
Continuous system check:		•
Interruption of reclosure operation in the event of a fault:		•
Signalling of reclosure operation in progress:		•
Light signalling of failure:		•
Activation / exclusion of ReStart function:		•
Auxiliary contact for remote operating status access:		•
Compatible with WiFi/ModBus interface module:		•
Internal electrical protection:		PTC

[1] Alimentazione 230V fase-neutro [2] In assenza di guasto nell'impianto [3] Temperatura media giornaliera ≤ +35°C
[4] Impostando la modalità NC+impulso, il contatto ausiliario commuta per 100ms alla fine di ogni ciclo di Autotest eseguito con esito positivo.

TECHNICAL DATA			
TYPE		**ReStart Rd PRO 2P**	**ReStart Rd PRO 4P**
			
Electrical characteristics			
Standards:		**IEC EN 63024**	
Sistema di distribuzione:		TT - TN-S	
Rated operational voltage (Ue):	**(V)**	230 a.c. [1]	
Minimum operating voltage (min Ue)	**(V)**	85% Ue	
Maximum operating voltage (max Ue):	**(V)**	110% Ue	
Rated insulation voltage (Ui):	**(V)**	500	
Dielectric strength test voltage between pole and earth:	**(V)**	2500 AC for 1 minute	
Rated impulse withstand voltage (Uimp):	**(kV)**	4	
Overvoltage category:		III	
Rated frequency:	**(Hz)**	50/60	50
Residual making and breaking capacity (IΔm):	**(A)**	IΔm of the associated circuit breaker	
Rated conditional residual short-circuit current with fuse (IΔc):	**(A)**	(A) IΔc of the associated circuit breaker	
Number of poles:		2	4
Type of IDP RCCB:		AC - A - A[IR] - A[S] - F - EV - B	
Rated current (In):	**(A)**	25 - 40 - 63 - 80	
Rated residual operating current (IΔn):	**(mA)**	30 - 100 - 300 - 500	
Rated non-operating resistance between live parts and earth (Rdo):	**(kΩ)**	8 (30mA) - 2,5 (100/300/500mA)	
Rated operating resistance between live parts and earth (Rd):	**(kΩ)**	16 (30mA) - 5 (100/300/500mA)	
Power loss at In:	**(W)**	Power loss of the associated circuit breaker	
Off-load absorbed power:	**(VA)**	3 (cosφ=0,4)	4 (cosφ=0,2)
Power absorbed during automatic reclosing:	**(VA)**	18 (cosφ=0,5)	45 (cosφ=0,5)
Mechanical characteristics			
Width in DIN modules:		1	3
Reclosing time:	**(s)**	10	
Maximum operational frequency:	**(man/h)**	30	
Max mechanical endurance (total no. operations):		4000	
Maximum no. of consecutive automatic reclosure operations [2]:		3	
Maximum no. of consecutive automatic reclosure operations	**(s)**	60	
Section of circuit breaker terminals:	**(mm²)**	flexible cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10 cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10	
Circuit breaker rated tightening torque:	**(Nm)**	3 (IDP) - 2 (IDP NA)	
Mounting position:		any	
Circuit breaker degree of protection:		IP20 (terminals) - IP40 (front)	
Pollution degree:		2	
Operating temperature:	**(°C)**	-5 +60 [3]	-25 +60 [3]
Stocking temperature:	**(°C)**	-40 +70	
Tropicalization:		55°C - UR 95%	
Auxiliary contact characteristics			
Can be fitted with auxiliary:		yes (with GWD0951)	already integrated in the ReStart
Type of contact:		Photomos (potential free contact)	
Operating voltage:	**(V)**	5÷230 a.c. / d.c.	
Operating current:	**(mA)**	0,6 (min) - 100 cosφ=1 (max)	
Operating frequency:	**(Hz)**	50	
Category of use:		AC12	
Operating mode:		NO\NC\NO as signal of handle position	
Terminal section:	**(mm²)**	≤ 2,5	
Rated tightening torque:	**(Nm)**	0,4	
ReStart function			
Automatic reclosure for untimely tripping:		•	•
Earth leakage check:		•	•
Continuous system check:		•	•
Interruption of reclosure operation in the event of a fault:		•	•
Signalling of reclosure operation in progress:		•	•
Light signalling of failure:		•	•
Activation / exclusion of ReStart function:		•	•
Auxiliary contact for remote operating status access:		•	•
Compatible with WiFi/ModBus interface module:		•	•
Internal electrical protection:		PTC	PTC

GW D6 761

MT - MCB

TECHNICAL DATA						
TYPE					**MT**	
Standards					**IEC EN 60898-1**	**IEC EN 60947-2**
Rated current (In)				**(A)**	16-63	
Utilization category					A	
Rated operational voltage (Ue)				**(V)**	230/400 - 240/415	
Minimum operating voltage (Ue min)				**(V)**	12 a.c. / d.c.	
Maximum operating voltage (Ue max)				**(V)**	440 a.c. / 250 d.c.	
Insulation voltage (Ui)				**(V)**	500	
Rated frequency				**(Hz)**	50/60	
Rated impulse withstand voltage (Uimp)				**(kV)**	4	
Overvoltage category:					III	
Number of poles					1, 1+N	2,3,4
Energy limiting class (B and C curve):					3	3
Breaking capacity						
Alternating current	**IEC/EN 60898-1**	**Icn**		**(A)**	6000	
		Ics		**(A)**	1 Icn	
	IEC/EN 60947-2	**Icu**	**230/240 V**	**(kA)**	10	20
			400/415 V	**(kA)**	-	10
		Ics		**(kA)**	75% Icu	
Direct current	**IEC/EN 60947-2**	**Icu (1 pole)**	**72 V**	**(kA)**	10	
		Ics			10	
		Icu (2 poles in series)	**125 V**	**(kA)**	10	
		Ics			6	
		Icu (4 poles in series)	**250 V**	**(kA)**	10	
		Ics			10	
Wiring		**cable section (mm²)**	**rigid**		≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10	
			flexible		≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10	
Screwdriver suggested:					PZ2	
Electrical endurance:					10000	
Mechanical endurance:					20000	
Max. no. of usable modular accessories					2	
Upline/downline power supply:					yes	
ON/OFF status displayed:					yes	
Mounting position:					any	
Type of residual current device:					Add-on RCD BD	
Rated tightening torque:				**(Nm)**	2	
Degree of protection:		**terminals**			IP20	
		front			IP40	
Pollution degree:					2	
Tropicalization:					55°C - UR 95%	
Reference temperature:				**(°C)**	30	
Operating temperature:				**(°C)**	-25 +60 [1]	
Stocking temperature:				**(°C)**	-40 +70	
Double connection (cable+fork busbar)					yes (only downstream terminals)	
Weight:				**(g)**	145 (per pole)	
Curve					C	D
Rated currents available In:				**(A)**	16	16
					20	20
					25	25
					32	32
					40	40
					50	-
					63	-

[1] With temperatures greater than 30°C, derating of the rated current In is expected

RCCB - IDP

TECHNICAL DATA			
TYPE			**IDP**
Standard			**IEC EN 61008-1 IEC EN 61008-2-1 IEC 62955 (Type EV) IEC EN 62423 (Type B) EN 62423 (Type B)**
Rated current (In)		**(A)**	25-63
Rated operational voltage (Ue)		**(V a.c.)**	230/400 - 240/415
Insulation voltage (Ui)		**(V)**	500
Rated impulse withstand voltage (Uimp)		**kV**	4
Overvoltage category			III
Rated frequency		**(Hz)**	50/60
Number of poles			2, 4
Number of modules			2 (2P) 4 (4P) 4 (2P/4P) for Type EV e B
Rated residual operating current (IΔn)		**(mA)**	
	A		30
	A (IR)		30
	A (EV)		30
	B		30
Level of immunity (8/20μs)		**(A)**	250 (for A type) 3000 (for A[IR], A[EV] and B types)
Resistance to blinding phenomenon of smooth DC residual currents		**(mA)**	6 (A type) 36 (A[IR] type)
Residual making and breaking capacity (Idm)		**(A)**	10xIn (500A min)
Making and breaking capacity (Im)		**(A)**	10xIn (500A min)
Voltage independent working			yes
Wiring	**Cable section (mm²) rigid**		≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10
	flexible		≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10
Electrical endurance			10000
Mechanical endurance			20000
Upline/Downline power supply			yes
Mounting position			any
Rated tightening torque		**(Nm)**	3
Screwdriver suggested			PZ2
Pollution degree			2
Fire resistance			Glow wire Test IEC 60695-2-11 according with IEC 61008-1
IP degree (inside the distribution board)			IP40
Tropicalization			55°C - UR 95%
Installation altitude		**(m)**	≤ 2000
Operating temperature (average daily temperature ≤35°C)	**(°C)**		-25 +60 [1]
Operating temperature (average daily temperature ≤35°C)		**(°C)**	-40 +70
Double connection (cable + fork busbar)			yes (only upper and lower terminals)
Signalization of the relay tripping			yes

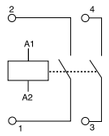
[1] With temperatures greater than 40°C, derating of the rated current In is expected

CONTACTORS

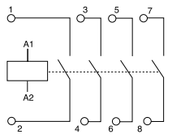
ELECTRICAL CHARACTERISTICS					
Contactor type:		**CTR 20**	**CTR 25**	**CTR 40**	**CTR 63**
Standard:		EN 61095, EN 60947-4-1, EN60947-5-1			
Rated current AC-1/AC-7a (In):	**(A)**	20	25	40	63
Rated operational voltage (Ue):	**(V)**	400 AC			
Rated insulation voltage (Ui):	**(V)**	440 AC			
Rated impulse withstand voltage (Uimp):	**(kV)**	4			
Rated conditional short-circuit current with fuse:	**(kA)**	3 (gL 20)	3 (gL 25)	3 (gL 63)	3 (gL 80)
Rated frequency:	**(Hz)**	50/60			
No. of modules:		1 (2NA) 2 (4NA)	2	3	
Power loss per pole:	**(W)**	1.7	2.2	4	8
Mechanical endurance (no. of operations):		3×10^6	10×10^6		
Operating temperature:	**(°C)**	-25…+70			
Storage temperature:	**(°C)**	-40…+80			
Max number of contactors (side-by-side): [1]		3 (≤ 40 °C) 2 (40 - 55 °C) 1 (55 - 70 °C)			
Rated tightening torque:	**(Nm)**	1.2		3.5	
Terminal screw type:		M3.5		M5	
Screwdriver suggested:		PZ1		PZ2	
Cable section:	**rigid (mm²)**	1...10		1.5…25	
	flexible (mm²)	1...6		1.5…16	
Weight:	**(g)**	130	250	420	
CONTROL COIL CHARACTERISTICS					
Control coil voltage (Uc):	**(V)**	230 AC			
Min operating coil voltage:	**(V)**	85% Uc			
Max operating coil voltage:	**(V)**	110% Uc			
Frequency:	**(Hz)**	50/60 [2]			
Switch-on coil consumption:	**(VA / W)**	12 / 10	2.6 / 2.6	5 / 5	
Operation coil consumption:	**(VA / W)**	2.8 / 1.2	2.6 / 2.6	5 / 5	
Rated tightening torque:	**(Nm)**	0.6			
Terminal screw type:		M3			
Screwdriver suggested:		PZ1			
Cable section:	**rigid (mm²)**	1…2.5			
	flexible (mm²)	1…2.5			
AUXILIARY CONTACT CHARACTERISTICS					
Rated operational voltage (Ue):	**(V)**	230 - 400 AC			
Rated insulation voltage (Ui):	**(V)**	500			
Rated impulse withstand voltage (Uimp):	**(kV)**	4			
Rated current AC-15 (In):	**(A)**	6 (230V) - 4 (400V)			
No. of modules:		0.5			
Power loss per pole (AC-15):	**(W)**	0.3			
Mechanical endurance (no. of operations):		3×10^6			
Electrical endurance (no. of operations):		50.000			
Rated tightening torque:	**(Nm)**	0.8			
Terminal screw type:		M3			
Screwdriver suggested:		PZ1			
Cable section:	**rigid (mm²)**	1…2.5			
	flexible (mm²)	1…2.5			
Weight:	**(g)**	35			

[1] It is suggested the use of a spacer insert (GWD6766) to limit the heating between max number of adjacent contactors indicated in table.
[2] The contactors' coils for 25, 40 and 63A versions can be controlled by AC voltage with frequency from 40 to 500Hz.

CIRCUIT DIAGRAMS CONTACTORS

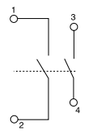


GW D6 703
GW D6 712
GW D6 721
GW D6 731



GW D6 709
GW D6 715
GW D6 724
GW D6 734

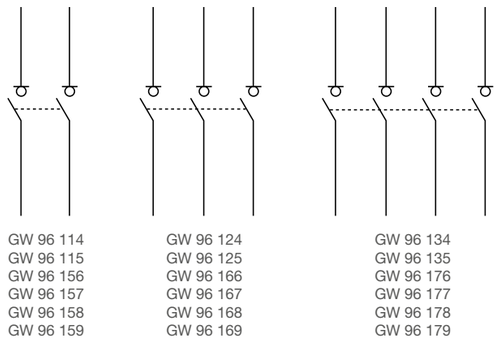
CIRCUIT DIAGRAMS AUXILIARY CONTACTS



GW D6 761

AC SWITCH DISCONNECTORS

TECHNICAL DATA									
			In<63A			**In≥63A**			
Standard:			EN 60947-3			EN 60947-3			
Rated operating voltage (Ue):	**(V)**		415 a.c.			415 a.c.			
Rated insulation voltage (Ui):	**(V)**		500 a.c.			500 a.c.			
Rated impulse withstand voltage (Uimp):	**(kV)**		4			4			
Rated frequency:	**(Hz)**		50 / 60			50 / 60			
Rated current (In):	**(A)**		32	40		63	80	100	125
Utilization category:			AC-23B			AC-22A			
Rated short-time current (Icw):	**(A)**		12 x In			12 x In			
Power loss per pole:	**(W)**		0,8	1,5		2	3,2	5	6
Electrical endurance			5000			3000 (up to 100A) and 2000 (to 125A)			
Mechanical endurance			20000			20000			
Screwdriver suggested:			PZ2			Philips			
Rated tightening torque:		**(Nm)**	2			2,5			
Connection:	**cable**	**rigid**	≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10			≤ 1x50 - ≤ 2x25 - ≤ 3x16			
	section (mm²)	**flexible**	≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10			≤ 1x70 - ≤ 2x35 - ≤ 2x25+1x16			
Degree of protection:			IP20			IP20			
Operating temperature:		**(°C)**	-5…+40			-5…+40			
Suitable accessory:			GW 96 001 (position contact)			GW 96 001 (position contact)			
Upline/downline power supply:			YES			YES			
Double connection (cable + fork busbar):			YES (only downstream)			YES (upstream and downstream)			



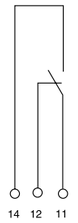
GW 96 114
GW 96 115
GW 96 156
GW 96 157
GW 96 158
GW 96 159

GW 96 124
GW 96 125
GW 96 166
GW 96 167
GW 96 168
GW 96 169

GW 96 134
GW 96 135
GW 96 176
GW 96 177
GW 96 178
GW 96 179

ACCESSORIES AND AUXILIARIES FOR MODULAR CIRCUIT BREAKER

TECHNICAL DATA			AUX CONTACTS FOR MT - IDP
Code:			**GW96001 - GWD6002**
DIN modules:			0,5
Rated operating voltage (Ue):	**AC - 50 Hz**	**(V)**	24 ÷ 400
	DC	**(V)**	24 ÷ 250
Aux contact type:			1 CO
Insulation voltage (Ui):		**(V)**	500
Overvoltage category:			III
Rated impulse withstand voltage (Uimp):		**(kV)**	4
Conditional short-circuit current:		**(A)**	1,000 (fuse Gg 6A 10,3x38 500V)
Frequency:		**(Hz)**	50
Rated operating current (Ie):	**AC12 - 230V**	**(A)**	6
	AC12 - 400V	**(A)**	3
	DC12 - 24V	**(A)**	6
	DC12 - 60V	**(A)**	2
	DC12 - 110V	**(A)**	1,5
	DC12 - 250V	**(A)**	1
Minimum operating current:		**(mA)**	5
Rated tightening torque:		**(Nm)**	0,6
Beam stripping cable recommended:		**(mm)**	6
Screwdriver suggested:			Philips 1
Operating temperature:		**(°C)**	-25 ÷ 60
Max cable section (flexible/rigid):		**(mm²)**	2,5

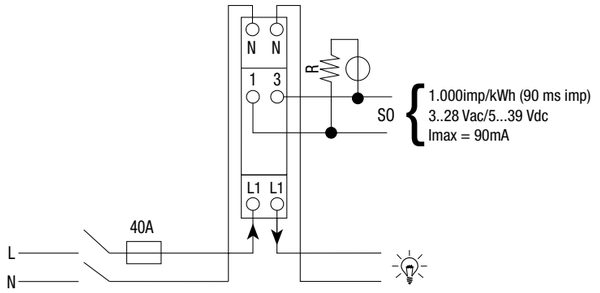


GW 96 001
GW D6 002

SINGLE-PHASE DIGITAL ENERGY METER

TECHNICAL DATA			
Code:		**GW D6 802**	**GW D6 803**
Type MID:		YES	
Integrated Modbus:		NO	YES
Standards:		EN 50470-1-3, EN 62053-31	
DIN modules:		1	
Reference voltage Un:	**(V)**	230 AC	
Minimum operating voltage (Un min):	**(V)**	184 AC	
Maximum operating voltage (Un max):	**(V)**	276 a.c. (continuous)	
		300 a.c. (momentary 1s)	
Activation:		direct	
Measured values:		active energy (exported and imported) active power (exported and imported) voltage, current, power factor, frequency	
Reference frequency:	**(Hz)**	50	
Minimum current measured NOT in Class (Ist):	**(A)**	0,02	
Minimum current measured in Class (Imin):	**(A)**	0,25	
Base current (Ib):	**(A)**	5	
Maximum current (Imax):	**(A)**	40 (continuous)	
		960 (momentary 1s)	
Precision class:		1	
Reading resolution:	**(kWh)**	0,1	
Absorbed power:	**(VA)**	8	
Remote signalling contact:		1 NA	
Max. output current with pulse:	**(A)**	0,09 (max 230V AC/DC)	
Pulse output contact operating voltage:	**(V)**	5÷230 AC	
		5÷300 DC	
Output pulse frequency:	**(imp/kWh)**	1000	
Output pulse duration:	**(ms)**	90	
Display:		LCD (N° 7 digits)	
Digits displayed:		999 999.9	
Degree of protection:		IP20	
Operating temperature:	**(°C)**	-25...+55	
Storage temperature:	**(°C)**	-25...+70	
Maximum cable section:	**(mm²)**	16	
Screwdriver suggested for main terminals:		PZ1	
Maximum cable section for output contact:	**(mm²)**	4	
Screwdriver suggested for output contact:		PZ1	
Resetting of energy count:		NO	
Sealing:		YES	
Suitable accessory:		with RS485 Modbus GWD6820* interface	NO

*Interface communicates on RS485 Modbus the values measured by energy meters.
Interface is optically coupled with energy meter (the two devices have to be installed side-by-side).



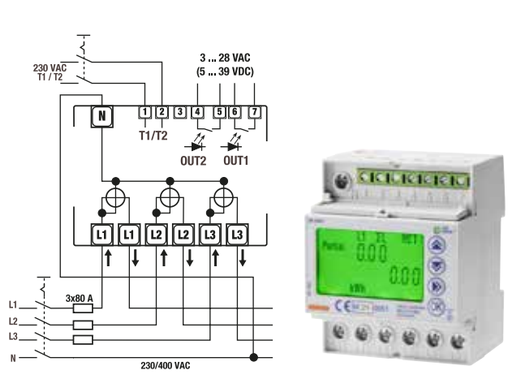
RS485 Modbus interface

Energy meter

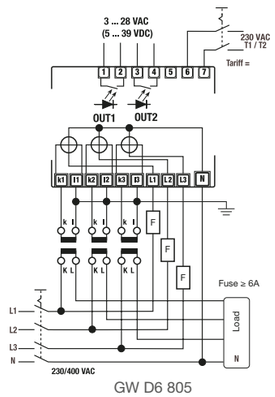
THREE-PHASE DIGITAL ENERGY METERS

TECHNICAL DATA					
Code:		**GW D6 804**	**GW D6 807**	**GW D6 805**	**GW D6 809**
Type MID:		yes		yes	
Modbus integrated:		yes	no	yes	no
Norme di riferimento:		EN 50470-1-3, EN 62059-32-1		EN 50470-1-3, EN 62059-32-1	
Inserzione:		direct		by means C.T.	
DIN modules:		4		4	
Reference voltage (Un):	**(V)**	230 AC Phase-Neutral		230 AC Phase-Neutral	
Connection:		single phase line (2 cables) single phase line (4 cables)		three-phase line (4 cables)	
Minimum operating voltage (Un min):	**(V)**	92 AC (F-N) 160 AC (F-F)		92 AC (F-N) 160 AC (F-F)	
Maximum operating voltage (Un max):	**(V)**	F-N: 276 AC (continuous) 300 AC (momentary 1s) F-F: 480 AC (continuous) 800 AC (momentary 1s)		F-N: 276 AC (continuous) 300 AC (momentary 1s) F-F: 480 AC (continuous) 800 AC (momentary 1s)	
Measured values:		active power (exported and imported), active energy (exported and imported), voltage, current, power factor, frequency, THD voltage, THD current		active power (exported and imported), active energy (exported and imported), voltage, current, power factor, frequency, THD voltage, THD current	
Reference frequency	**(Hz)**	50		50	
Minimum current measured NOT in Class (Ist):	**(A)**	0,015		0,001	
Minimum current measured in Class (Imin):	**(A)**	0,25		0,01	
Base current (Ib):	**(A)**	5		1	
Maximum current (Imax):	**(A)**	80 (continuous) 2400 (momentary 10ms)		6 (continuous) 120 (momentary 0,5s)	
Precision class:		1 (active energy) 2 (reactive energy)		1 (active energy) 2 (reactive energy)	
Absorbed power:	**(VA)**	2		2	
Remote signalling contact:		2 adjustable contacts for active and reactive, imported and exported energy		2 adjustable contacts for active and reactive, imported and exported energy	
Tariffs:		n° 2 tariffs for active and reactive energy		n° 2 tariffs for active and reactive energy	
Max. output current with pulse:	**(A)**	0,09		0,09	
Pulse output contact operating voltage:	**(V)**	3÷28 AC 5÷39 DC		3÷28 AC 5÷39 DC	
Output pulse frequency:	**(imp/kWh)** **(imp/kvar)**	adjustable from 1 to 200		adjustable from 1 to 10000 depending on CT ratio	
Pulse duration:	**(ms)**	adjustable from 30 to 100		adjustable from 30 to 100	
Display:		LCD (N° 9 digits)		LCD (N° 9 digits)	
Degree of protection:		IP40		IP40	
Operating temperature:	**(°C)**	-25...+55		-25...+55	
Storage temperature:	**(°C)**	-25...+70		-25...+70	
Maximum cables section:	**(mm²)**	35 (also with terminal cable)		4 (also with terminal cable)	
Screwdriver suggested for main terminals:		PZ2		PZ1	
Maximum cable pulse output contact:	**(mm²)**	4 (2,5 with terminal cable)		2,5 (also with terminal cable)	
Screwdriver suggested for output impulse contact:		shear (0,8x3,5)		shear (0,8x3,5)	
Resetting of energy count:		yes (only for partial energy values)		yes (only for partial energy values)	
Sealing:		yes		yes	
Suitable accessory:		no	with RS485 Modbus GWD6820* interface	no	with RS485 Modbus GWD6820* interface

*Interface communicates on RS485 Modbus the values measured by energy meters.
Interface is optically coupled with energy meter (the two devices have to be installed side-by-side).



GW D6 804
GW D6 807



GW D6 805
GW D6 809

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