

AMTRON®

4Business 710 22 C2

For charging electric vehicles in semi-public areas



MENNEKES
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Equipment features

General

- Mode 3 charging (IEC 61851-1)
- Plugs and sockets according to IEC 62196-2
- Prepared for ISO 15118
- Maximum charging power: 22 kW
- Connection: 1-phase / 3-phase
- Max. charging power configurable by qualified electrician
- Calibrated energy meter, readable from outside (MID-compliant for three-phase supply network connection only)
- LED status indicator
- Switching of charging modes via button on the wallbox
- Proximity sensor
- Bottom lighting
- Energy saving mode for reduced standby consumption
- Permanently connected charging cable with type 2 (7.5 m)
- Integrated cable hanger
- Interchangeable Front Cover
- Color: midnight black

APP

- AMTRON® 4Drivers app for the end customer (available free of charge)
 - For authorization, control and visualization of charging processes
 - Display of the charged energy quantity and energy costs
 - Data export of all charging processes in PDF and CSV format
 - User and RFID management
- AMTRON® 4Installers app for the installer (available free of charge)
 - For easy installation of the charging station

Authorisation options

- Autostart (without authorisation)
- AMTRON® 4Drivers App
- RFID (ISO / IEC 14443 A/B)
Compatible with MIFARE classic and MIFARE DESFire
- Via a backend system

Networking options

- Connection to a network via LAN / Ethernet (RJ45)
- Connection to a network via WLAN / WiFi

Options for connecting to a backend system

- Via LAN / Ethernet (RJ45) and an external router
- Support for OCPP 1.6j communication protocols

Options for local load management

- Reduction of the charging current using an external switching contact (downgrade input)
- Static load management
- Dynamic load management for up to 100 charging points
- Reduction of the charging current in case of uneven phase load (unbalanced load limitation)
- Solar charging via an upstream, external energy meter
 - Solar charging for charging powers of 4,2 - 22 kW
- Local blackout by connecting an external Modbus TCP energy meter

Options for connecting to an external energy management system (EMS)

- Via Modbus TCP
- Via EEBus
- Dynamic control of the charging current via an OCPP system (smart charging)

Integrated protective devices

- DC residual current monitoring > 6 mA in accordance with IEC 62955
- Residual current circuit breaker must be installed upstream
- Circuit breaker must be installed upstream
- Optional retrofittable type 2 surge protection
- Switching output for controlling an external shunt release, in order to disconnect the charging point voltage from the mains in case of a fault (welded load contact, welding detection)

Technical data

AMTRON® 4Business 710 22 C2		1347012205BK
Max. charging power Mode 3 [kW]	Charging point 1	22
Connection	Charging point 1	1-phase / 3-phase
Rated current I_{nA} [A]		32
Rated current of a Mode 3 I_{nC} charging point [A]		32
Rated voltage U_N [V] AC $\pm 10\%$		230 / 400
Rated frequency f_N [Hz]		50
Max. back-up fuse [A]		32
Rated insulation voltage U_i [V]		500
Rated impulse withstand voltage U_{imp} [kV]		4
Conditional rated short-circuit current I_{cc} [kA]		1.8
Rated diversity factor RDF		1
Types of system earthing		TN/TT
EMC classification		A+B
Protection class		I
IP rating		IP54
Overvoltage category		III
Mechanical impact protection with Front Cover		IK10
Mechanical impact protection without Front Cover		IK8
Contamination rating		3
Installation		open air, interior
Stationary / Mobile		fixed
Use (according to IEC 61439-7)		ACSEV
External design		wall mounting
Dimensions H x W x D [mm]		402.2 x 226.3 x 168.2
Weight [g]		6800
Standard		IEC 61851, IEC 61439-7

The specific standards according to which the product was tested can be found in the declaration of conformity for the product.

Technical data

Permissible ambient conditions

	Min.	Max.
Ambient temperature [°C] (without direct sunlight)	-30	50
Average temperature over 24 hours period [°C]		35
Altitude [m above sea level]		2000
Relative humidity [%]		95

Technical data

Supply line terminal strip

Number of terminals	5	
Conductor material	Copper	
	Min.	Max.
Clamping range - rigid [mm ²]	0.2	10
Clamping range - flexible [mm ²]	0.2	10
Clamping range with ferrule [mm ²]	0.2	6
Tightening torque [Nm]	0.8	1.6

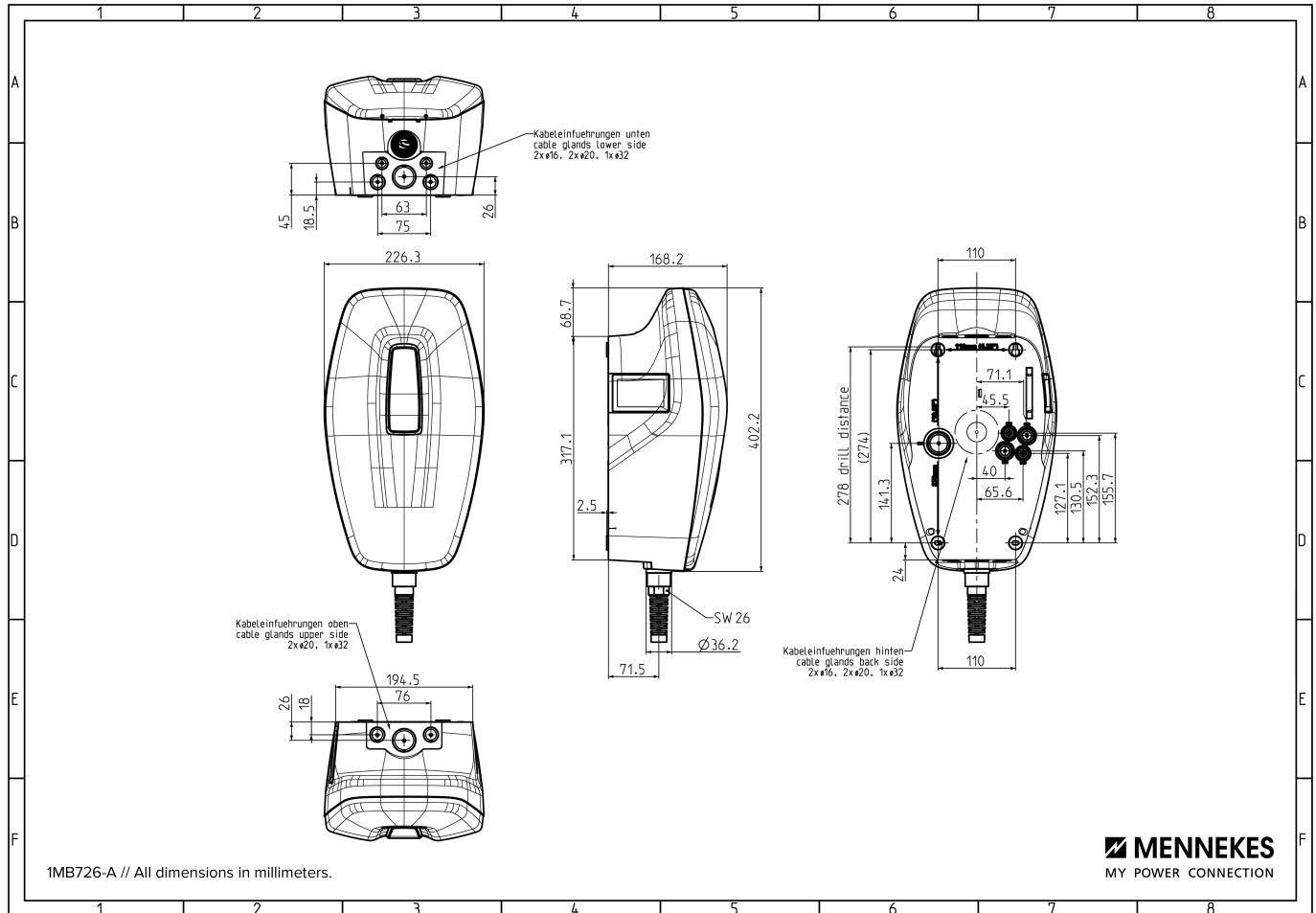
Downgrade input terminals

Number of terminals	-	
Specification of the external switching contact	Potential-free (NO/NC)	
	Min.	Max.
Clamping range - rigid [mm ²]	0.5	4
Clamping range - flexible [mm ²]	0.5	4
Clamping range with ferrule [mm ²]	0.5	2.5
Tightening torque [Nm]	-	-

Switching output für shunt release terminals

Number of terminals	2	
Max. switching voltage [V] AC	230	
Max. switching voltage [V] DC	24	
Max. switching current [A]	1	
	Min.	Max.
Clamping range - rigid [mm ²]	0.5	4
Clamping range - flexible [mm ²]	0.5	4
Clamping range with ferrule [mm ²]	0.5	2.5
Tightening torque [Nm]	-	-

Dimensional drawing



Example

