

CHARGING POLE eMC3

MASTER+ WITH CHARGING SOCKETS

44 kW

The weights and measures compliant charging pole eMC3 has been developed especially for public applications and complies with application rules VDE-AR-N 4101 and VDE-AR-N 4102. The 3P4412 has two charging points in the form of Type 2 sockets with a charging capacity of 22 kW each. Its two-coat, powder coated metal housing is extremely weatherproof and includes a pre-installed domestic power distribution box. Nonglare LED lights make the charging pole's operating status clearly visible, even from afar. An RFID module provides easy access. Backend communication via OCCP for electrical energy consumption accounting is already integrated. The charging pole is pre-configured for use as a Master+ unit. The Master/Slave system is suitable for group solutions that are billed via a back end system.



General information

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|------------------------------|--|
| Model | eMC3 |
| Model number | 3P4412 |
| EAN number | 4011721175065 |
| Commodity code | 85371091 |
| Packaging unit (PU) | 1 unit |
| Packaging (dimensions LxWxH) | Shipped in carton on disposable pallet, 1,790 × 670 × 470 mm |
| Components included | Charging pole, printed instruction manual, installation kit |

Input/mains supply

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|-----------------------|---|
| External power supply | for supply cable sizes up to 5 × 95 mm ² , AL/CU |
| Rated voltage | 230 / 400 V |
| Rated current | 63 A |
| Rated frequency | 50 Hz |
| Upstream fuse | 63 A |
| Domestic junction box | NH00 63 A of max. 95 mm ² |

Output/vehicle connection

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|---|---|
| Connection system per charge point | Lockable Type 2 charging socket, 32 A, in acc. with IEC62196-2, automatic unlocking in case of grid connection loss |
| Output voltage per charge point | 230 / 400 V |
| Maximum charging current per charge point | 32 A |
| Maximum charging output per charge point | 22 kW |
| Load management | SBC |

Protection/integrated components

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|--------------------------------------|---|
| MCB per charge point | 32 A, 4-pole, C characteristic |
| RCCB per charge point | RCCB, Type B, 30 mA |
| Energy meter per charge point | MID compliant |
| Compliance module | Logging Gateway (LGW) |
| Load switching | Installation contactor, 4-pole, 40 A |
| Weld detection | Contacting welding trips RCD |
| Temperature monitoring | internal, charging current reduction or shut down |
| Domestic electricity meter | eHZ adapter, 35 A upstream fuse |
| Lightning and overvoltage protection | Type 1 + Type 2 combined arrester |
| Shut down (Standby) | all poles |

Charging monitor/status indicators

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| Operating status indicator | LED |
| Access control | RFID card, QR code or smartphone app |
| Communication EV | in acc. with IEC 61851-1 Mode 3 |
| Master/Slave communication | RS485 |
| Backend communication | LTE - OCPP 1.6 and 1.5, transport via SOAP or WebSockets |

Standards/guidelines

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|-----------------------------|
| IEC 61851-1 |
| IEC 61439-7 ACSEV |
| in acc. with MessEV Modul B |

Operating conditions

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| Storage temperature | -30 to 85°C |
| Operating temperature | -25 to 40°C in acc. with DIN EN 61851-1 -30 to 50°C with integrated derating function |
| Relative humidity | 5 to 95%, no condensation |
| Class of protection | I (complies with class II requirements) |
| Overvoltage category | III |
| Degree of pollution | 3 |
| IP rating | IP44/IP54 (plugged/unplugged) |
| Impact strength | IK10 |
| Maximum elevation | ≤ 2,000 m AMSL |
| Power dissipation | 14 W |

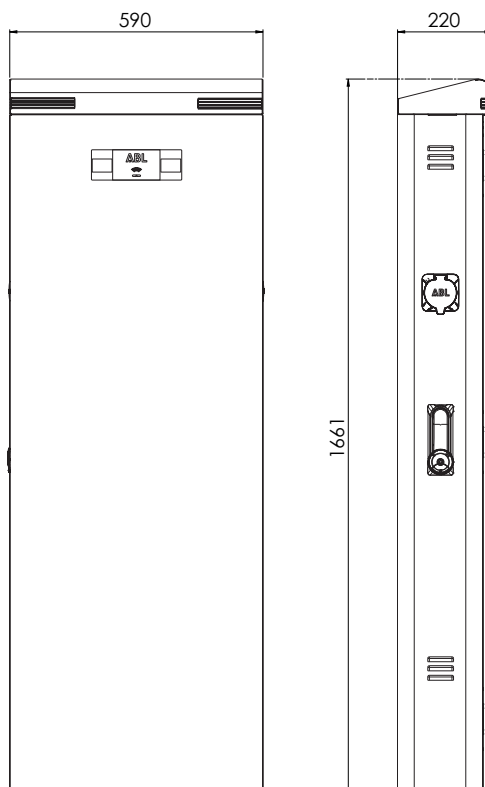
Housing

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|--------------------------|---|
| Type | Mounting pole |
| Fixing type | Screw fixings for installation on prefabricated concrete foundation (with or without plinth, both available separately) |
| Material (housing/cover) | Steel |
| Housing color | Powder coated DB703 |
| Cover color | Powder coated DB701 |
| Locking mechanism | Grip handle, prepared for the installation of a profile cylinder lock |
| Pole dimensions (HxWxD) | 1,661 × 590 × 220 mm |
| Weight | approx. 90 kg |

Accessories

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|---|---|
| Type 2 charging cable | LAK32A3, 32 A 240 / 415 V, length approx. 4 m |
| Type 2 charging cable | LAKC222, 20 A 240 / 415 V, length approx. 7 m |
| Type 2 to Type 1 adapter cable | LAKK2K1, 32 A 230 V AC, length approx. 4 m |
| Prefabricated foundation | EMC9999 |
| Plinth 160 mm | EMC9996 |
| Plinth 100 mm | EMC9994 |
| RFID card | E017869, 5 pcs |
| see website at www.ablmobility.de | |

Dimensioned drawing



Subject to change: All performance characteristics, technical and other specifications are subject to change without prior notice.