



Busbar tap-off unit
for the busbar system BD2

- AKM 806
- AKM 96RMPN
- AKM 96PAMID
- AKM 103
- AKM 96RME
- AKM 96PA
- AKM 96PQL

Data sheet

DEVICE VIEWS

View – front and bottom

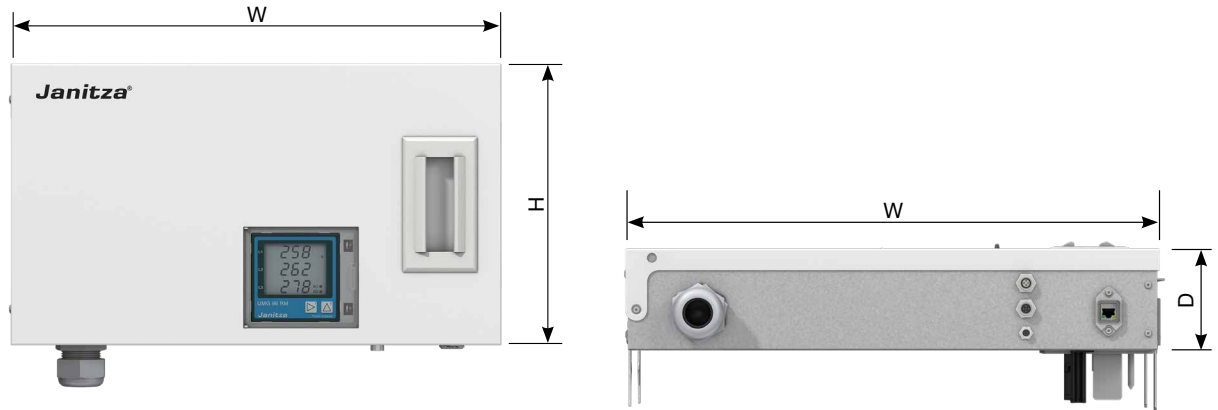


Fig.: Example AKM 96RME-125
(device views depending on the device type)

Dimensions

| Type | Width * (W in mm) | Height * (H in mm) | Depth * (D in mm) |
|--------------------|----------------------|-----------------------|----------------------|
| AKM xxx-125 | 530 | 305 | 105 |
| AKM xxx-250 | 662 | 406 | 202 |
| AKM xxx-400 | 862 | 406 | 202 |
| AKM xxx-530 | 862 | 406 | 352 |

* Specifications may vary slightly.

Interfaces

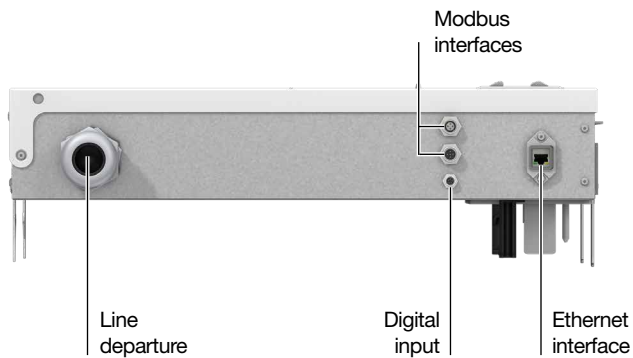


Fig.: Example AKM 96RME-125
(Interfaces depend on the device type and variant)

TECHNICAL DATA

| General | |
|--|---|
| Product designation | AKM tap-off unit for busbar trunking system BD2 |
| Type-approved according to | DIN EN 61439 |
| Protection against foreign matter and water | IP34 according to DIN EN 61439-1 |
| Operating voltage | Type AKM 806: max. 230 V / 400 V (+-10 %) Type AKM 96RME: max. 277 V / 480 V (+-10 %) Type AKM 96RMPN: max. 277 V / 480 V (+-10 %) Type AKM 96PA: max. 277 V / 480 V (+-10 %) Type AKM 96PAMID: max. 277 V / 480 V (+-10 %) Type AKM 96PQL: max. 277 V / 480 V (+-10 %) Type AKM 103: max. 277 V / 480 V (+-10 %) |
| Operating current (depending on device type) | Max. 125 A / 250 A / 400 A / 530 A |
| Ambient temperature range | -10 °C to +55 °C |
| Relative humidity | 0 to 75% RH |
| Operating elevation | 0 to 2000 m above sea level |
| Pollution degree | 2 |
| Mounting orientation | Vertical or horizontal |
| Total power dissipation | 97 W |
| Ventilation | No forced ventilation required |
| Mechanical structure length x width x height | See table „Dimensions“ on page 2 |

| Outgoing power feeder | |
|--|---|
| Voltage | Type AKM 806: max. 230 V / 400 V (+-10 %) Type AKM 96RME: max. 277 V / 480 V (+-10 %) Type AKM 96RMPN: max. 277 V / 480 V (+-10 %) Type AKM 96PA: max. 277 V / 480 V (+-10 %) Type AKM 96PAMID: max. 277 V / 480 V (+-10 %) Type AKM 96PQL: max. 277 V / 480 V (+-10 %) Type AKM 103: max. 277 V / 480 V (+-10 %) |
| Maximum permissible current (depending on the device type) | Max. 125 A / 250 A / 400 A / 530 A |
| Load factor, continuous (24 h) | 0.6 |
| Load factor, short-term(2 h) | 1.0 |
| Fuse protection (depending on device type) | 3x NH, max. 125 / 250 / 400 / 530 A |
| Number of conductors | 5 |
| Max. connection cross section | 125 A: 50 mm ² 250/400/530 A: 240 mm ² |
| Short-circuit resistance | Ensured by NH-fuse |

| Measurement device technical data | |
|---|---|
| Measurement device fuse protection | Motor circuit breaker 6.3 A according to DIN EN IEC 60947-4-1 |
| Further information on the measurement device | See data sheet of the measurement device |

| Digital input: Pulse detection (option) | |
|--|---|
| Type | Solid state relays, not short-circuit proof |
| Maximum counter frequency | 20 Hz |
| Input signal applied | 18 V .. 28 V DC (typically 4 mA) |
| Input signal not applied | 0 .. 5 V DC, current less than 0.5 mA |
| Connection | Socket M8, 3-pin |
| Cable length up to 30 m | Unshielded |
| Cable length greater than 30 m | Shielded |
| Pulse input supply | Power supply unit 24 VDC, max. 1.3 A |

| Temperature measurement | |
|--------------------------------|---|
| Probes | PT100 in close proximity to the NH fuse |

| Ethernet interface | |
|---------------------------|---|
| Connection | Han PushPull RJ45 |
| Protocols | AKM 806: Modbus/TCP, DHCP-Client, SNMP V2c AKM 96RME: TCP/IP, DHCP-Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP, Modbus RTU over Ethernet, FTP, SNMP AKM 96RMPN: TCP/IP, Modbus/TCP (Port 502), CMP (Ping), NTP, Modbus RTU over Ethernet (Port 8000), FTP ProfiNet (SNMP, DCP, MRP, LLDP, DCOM, RPC ...) AKM 96PA: TCP/IP, DHCP-Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP AKM 96PAMID: TCP/IP, DHCP-Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP AKM 96PQL: TCP/IP, DHCP-Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP AKM 103: Modbus RTU/Slave |

| Serial interface | |
|---------------------------|--|
| RS-485 - Modbus RTU/Slave | 9.6 / 19.2 / 38.4 / 57.6 / 115.2 kbps |
| Connection | M12, 4-pin, A-coded; 1x each socket and plug |

| Residual current detection | |
|-----------------------------------|--|
| Monitoring device | Internal RCM input of the measurement device; See data sheet of the measurement device |
| Residual current transformer | AKM xxx-125 --> CT-AC RCM 35N AKM xxx-250 --> CT-AC RCM 80N AKM xxx-400 --> CT-AC RCM 110N AKM xxx-530 --> CT-AC RCM 140N |
| Residual currents detected | Type A |

| Enhanced residual current detection (option) | |
|--|--|
| Monitoring device | RCM 202-AB |
| Residual current transformer | AKM xxx-125 --> CT-AC RCM 35N AKM xxx-250 --> CT-AC RCM 80N AKM xxx-400 --> CT-AC RCM 110N AKM xxx-530 --> CT-AC RCM 140N |
| Residual currents detected | Type A / B / B+ |

 INFORMATION

There are many variants of the busbar tap-off units and they can be purchased with different items of equipment and installations.

Consequently, please note the **technical data** in all usage information which belongs to the installed measurement devices and components!

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