

# AML-SPC-STD-001 - Switchgear and controlgear assembly



1051048

<https://www.phoenixcontact.com/us/products/1051048>

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Standardized and modularly expandable switchgear and controlgear assembly to for efficient machine and system automation. Basic version with functional safety and cloud connection. Supports various communication protocols (e. g. PROFINET, OPC UA).

Similar figure

## Product description

The AML-SPC (SPC = Smart-Control-Cabinet) switchgear and controlgear assemblies are standardized and modularly expandable control solutions for the automation of decentralized machines and systems. The modular concept and use of smart services based on PLCnext Technology enable fast startup and a reliable production sequence. The range of functions varies depending on the type of product, so that different tasks ranging from simple monitoring through to complex system controls can be implemented. In the context of Industrie 4.0, the AML-SPC switchgear and controlgear assemblies can be implemented in a variety of industry sectors. Applications, for example, include: the automotive industry (controlling, monitoring, and diagnosing punching and bending machines, welding machines, and similar assembly and production machinery), logistics (controlling, monitoring, and diagnosing electric monorail systems, conveyor belts, and small warehouses)

## Your advantages

- Various possible applications in automated production processes, thanks to a modularly expandable control cabinet concept
- Efficient system operation, thanks to use of smart services as part of predictive maintenance and big data analyses
- Use of traditional and modern programming languages thanks to PLCnext Technology
- Fast commissioning, thanks to standardized control solutions with extensive software packages

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1051048       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DTHDAA        |
| GTIN                                 | 4055626670263 |
| Weight per piece (including packing) | 24.1 kg       |
| Weight per piece (excluding packing) | 24.1 kg       |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                       |  |
|-----------------------|--|
| Product type          | Switchgear and controlgear assembly        |
| Installation location | Indoor use, no exposure to direct sunlight |

### Insulation characteristics

|                  |   |
|------------------|---|
| Protection class | I |
|------------------|---|

### Electrical properties

|   |                     |
|---|---------------------|
| Maximum power dissipation for nominal condition | 40 W                |
| Control voltage                                 | 24 V DC             |
| Nominal current control voltage                 | max. 10 A           |
| Nominal voltage $U_N$                           | 400 V AC (50 Hz)    |
| Nominal current $I_N$                           | 3x 0.5 A (400 V AC) |
| Nominal power                                   | 274 VA              |

### Fuse

|                          |                                 |
|--------------------------|---------------------------------|
| Recommended backup fuse: | 16 A (Characteristic B, 3-pos.) |
| Fuse                     | 10 A (Characteristic B, 3-pos.) |

### Output data

|                |                           |
|----------------|---------------------------|
| Output voltage | 2x 24 V DC (Load circuit) |
| Output current | 2x 3 A (Load circuit)     |

### Interfaces

#### Wireless

|                            |   |
|----------------------------|---|
| Interface description      | WLAN in accordance with IEEE 802.11 a/b/g/n |
| Operating mode             | Access point / client adapter / repeater    |
| Frequency range            | 2.4 GHz ... 5 GHz                           |
| Transmit capacity, maximum | max. 20 dBm                                 |
| Number                     | 2   |
| Connection method          | permanently installed                       |

### Dimensions

#### External dimensions

|                        |  |
|------------------------|--|
| Width / Height / Depth | 500 mm / 500 mm / 210 mm                   |
|                        | 500 mm / 605 mm / 250 mm (with extensions) |

### Material specifications

|                  |   |
|------------------|---|
| RAL color        | 7035  |
| Material Housing | Sheet steel (dip-primed, powder-coated on the outside, textured finish) |

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## Cable/line

### Cable entry

|                     |                          |
|---------------------|--------------------------|
| Type of cable entry | Cable gland              |
| Connection method   | 1 Plug M12               |
|                     | 2 Connector D25-HEAVYCON |

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection                    | IP54   |
| Ambient temperature (operation)         | 0 °C ... 38 °C   |
|   | 0 °C ... 40 °C (at max. 7 A output current on power supply unit) |
| Ambient temperature (storage/transport) | 0 °C ... 40 °C   |

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121100 |
|-------------|----------|

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## Environmental product compliance

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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