# Product data sheet
## Characteristics

# ABE7H16S21
passive connection sub-base ABE7 - 16 inputs or outputs - Led - isolator



## Main

| | |
|---|---|
| Range of product | Modicon ABE7 |
| Product or component type | Passive discrete I/O sub-base |
| Sub-base type | I/O sub-base |
| [Us] rated supply voltage | 19...30 V conforming to IEC 61131-2 |
| Number of channels | 16 |
| Number of terminal per channel | 2 |
| Connections - terminals | Screw type terminals, 1 x 0.09...1 x 1.5 mm² (28 AWG...16 AWG) flexible with cable end<br>Screw type terminals, 1 x 0.14...1 x 2.5 mm² (26 AWG...12 AWG) solid<br>Screw type terminals, 1 x 0.14...1 x 2.5 mm² (26 AWG...14 AWG) flexible without cable end<br>Screw type terminals, 2 x 0.09...2 x 0.75 mm² (28 AWG...20 AWG) flexible with cable end<br>Screw type terminals, 2 x 0.2...2 x 2.5 mm² (24 AWG...14 AWG) solid |
| Channel additional information | 1 switch disconnector per channel |

## Complementary

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|---|---|
| Supply circuit type | DC |
| Number of horizontal rows | 2 |
| Status LED | 1 LED per channel (green) channel status<br>1 LED (green) power ON |
| Polarity distribution | 0 V or 24 V |
| Short-circuit protection | 2 A internal fuse, 5 x 20 mm, fast blow (PLC end) |
| Connector type | HE-10 |
| Pin number | 20 pins |
| Fixing mode | By clips (35 mm symmetrical DIN rail)<br>By screws (solid plate with fixing kit) |
| Maximum supply current | 1.8 A |
| Current per channel | 0.5 A |
| Maximum current per output common | 1.8 A |
| Voltage drop on power supply fuse | 0.3 V |
| [Ui] rated insulation voltage | 2000 V |
| Installation category | II conforming to IEC 60664-1 |
| Tightening torque | 0.6 N.M with flat Ø 3.5 mm screwdriver |
| Width | 125 Mm |
| Net weight | 0.375 Kg |

## Environment

| | |
|---|---|
| Product certifications | GL[RETURN]CSA[RETURN]UL[RETURN]DNV[RETURN]EAC |
| IP degree of protection | IP2X conforming to IEC 60529 |
| Resistance to incandescent wire | 750 °C conforming to IEC 60695-2-11 |
| Shock resistance | 15 gn for 11 ms conforming to IEC 60068-2-27 |
| Vibration resistance | 2 gn (f= 10…150 Hz) conforming to IEC 60068-2-6 |
| Resistance to electrostatic discharge | 4 KV (contact) level 3 conforming to IEC 61000-4-2<br>8 KV (air) level 3 conforming to IEC 61000-4-2 |
| Resistance to radiated fields | 10 V/M (26000000…1000000000 Hz) conforming to IEC 61000-4-3 level 3 |
| Resistance to fast transients | 2 KV level 3 conforming to IEC 61000-4-4 |
| Ambient air temperature for operation | -5…60 °C conforming to IEC 61131-2 |
| Ambient air temperature for storage | -40…80 °C conforming to IEC 61131-2 |
| Pollution degree | 2 conforming to IEC 60664-1 |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 7.100 Cm |
| Package 1 Width | 8.200 Cm |
| Package 1 Length | 13.700 Cm |
| Package 1 Weight | 358.000 G |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 9 |
| Package 2 Height | 15.000 Cm |
| Package 2 Width | 30.000 Cm |
| Package 2 Length | 40.000 Cm |
| Package 2 Weight | 3.562 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 6 |
| Total lifecycle Carbon footprint | 1 760 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 10.040528826755398 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 10 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.05345020747946783 |
| Carbon footprint of the distribution phase [A4] | 0.1 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.09479108954018754 |
| Carbon footprint of the installation phase [A5] | 0.1 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 1749.1248641439533 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 1 749 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.7706649834232512 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.8 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 1760 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| SCIP Number | 1bbe7d20-74c0-4e7e-b98b-d2946f4ab8b4 |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant By Exemption |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which |
| End of life manual availability | End Of Life Information |

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|---|---|
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |

## Contractual warranty

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|---|---|
| Warranty (in months) | 18 |

Product Life Status : Commercialised