

# Product data sheet

Specifications



Closed toroid A type, VigiPacT,  
Vigilohm, MA120, inner diameter  
120mm, rated current 250A

50440

Product availability: Stock - Normally stocked in distribution facility

## Main

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                          | VigiPacT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Device short name              | MA120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Product or Component Type      | Earth leakage current sensor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Device Application             | Equipment monitoring and control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Range compatibility            | VigiPacT RH10M residual current protection relay<br>VigiPacT RH10P residual current protection relay<br>VigiPacT RH21M residual current protection relay<br>VigiPacT RH21P residual current protection relay<br>VigiPacT RH68M residual current protection relay<br>VigiPacT RH86M residual current protection relay<br>VigiPacT RH86P residual current protection relay<br>VigiPacT RH99M residual current protection relay<br>VigiPacT RH99P residual current protection relay<br>VigiPacT RH197M residual current protection relay<br>VigiPacT RH197P residual current protection relay<br>VigiPacT RHU residual current protection relay<br>VigiPacT RHUs residual current protection relay<br>VigiPacT RMH residual current protection relay |
| current sensor type            | A type closed toroid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [Ie] rated operational current | 250 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Complementary

|                                          |                                                                                                                         |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Transformer ratio                        | 1/1000                                                                                                                  |
| Network Frequency                        | 50/60 Hz<br>400 Hz                                                                                                      |
| [Icw] rated short-time withstand current | 85 kA 0.5 s                                                                                                             |
| Residual short-circuit withstand current | 85 kA / 0.5 s IEC 60947-2                                                                                               |
| [Ui] Rated Insulation Voltage            | 1000 V                                                                                                                  |
| Overvoltage category                     | IV                                                                                                                      |
| [Uimp] rated impulse withstand voltage   | 12 kV                                                                                                                   |
| Mounting mode                            | Fixed cables)<br>Fixed plain backplate)<br>Fixed profiled sheet metal)<br>Fixed slotted backplate)<br>Clip-on DIN rail) |
| Calorific value                          | 3.89 MJ                                                                                                                 |
| Connections - terminals                  | Screw connection 0.0003...0.004 in² (0.22...2.5 mm²)                                                                    |
| Diameter                                 | Inner 4.6 in (118 mm)                                                                                                   |
| Product Weight                           | 0.99 lb(US) (0.45 kg)                                                                                                   |
| Height                                   | 6.5 in (164 mm)                                                                                                         |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|       |                 |
|-------|-----------------|
| Width | 7.5 in (190 mm) |
| Depth | 1.5 in (39 mm)  |

## Environment

|                                       |                                                                                                                                                                                           |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP Degree of Protection               | Body IP30<br>Connectors IP20                                                                                                                                                              |
| Environmental characteristic          | Exposure to damp heat in servicecategory C2 48 hours IEC 60068-2-56<br>Exposure to damp heat not in service 25...55 °C, RH 95 %) 28 cycles IEC 60068-2-30<br>Salt mistKb/2 IEC 60068-2-52 |
| Pollution degree                      | Level 3 IEC 60664-1                                                                                                                                                                       |
| Ambient air temperature for operation | -31...158 °F (-35...70 °C)                                                                                                                                                                |
| Ambient Air Temperature for Storage   | -67...185 °F (-55...85 °C)                                                                                                                                                                |
| Standards                             | IEC 60947-2                                                                                                                                                                               |
| Product Certifications                | CE                                                                                                                                                                                        |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US10DE201078  |
| Discount Schedule | 0DE2          |
| GTIN              | 3303430504405 |
| Returnability     | Yes           |
| Country of origin | US            |

## Packing Units

|                              |                            |
|------------------------------|----------------------------|
| Unit Type of Package 1       | PCE                        |
| Number of Units in Package 1 | 1                          |
| Package 1 Height             | 2.17 in (5.500 cm)         |
| Package 1 Width              | 6.97 in (17.700 cm)        |
| Package 1 Length             | 7.95 in (20.200 cm)        |
| Package 1 Weight             | 17.989 oz (510.000 g)      |
| Unit Type of Package 2       | S04                        |
| Number of Units in Package 2 | 26                         |
| Package 2 Height             | 11.81 in (30.000 cm)       |
| Package 2 Width              | 15.75 in (40.000 cm)       |
| Package 2 Length             | 23.62 in (60.000 cm)       |
| Package 2 Weight             | 30.777 lb(US) (13.960 kg)  |
| Unit Type of Package 3       | P12                        |
| Number of Units in Package 3 | 104                        |
| Package 3 Height             | 19.69 in (50.000 cm)       |
| Package 3 Width              | 31.50 in (80.000 cm)       |
| Package 3 Length             | 47.24 in (120.000 cm)      |
| Package 3 Weight             | 147.798 lb(US) (67.040 kg) |

# Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

| Environmental footprint                        |                                               |
|------------------------------------------------|-----------------------------------------------|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 6                                             |
| Environmental Disclosure                       | <a href="#">Product Environmental Profile</a> |

Use Better

| Materials and Substances               |                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recycled metal content at CR level     | 0                                                                                                                                                                                                                                                                                                                                  |
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                                                                                                |
| Packaging without single use plastic   | Yes                                                                                                                                                                                                                                                                                                                                |
| <a href="#">EU RoHS Directive</a>      | Compliant                                                                                                                                                                                                                                                                                                                          |
| SCIP Number                            | 78b0d24c-0e62-4f91-9397-1958e4735328                                                                                                                                                                                                                                                                                               |
| REACH Regulation                       | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                                                                  |
| California proposition 65              | WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

Use Again

| Repack and remanufacture |                                                                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                                                                                                          |
| Take-back                | No                                                                                                                                                                                                               |
| WEEE                     |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Technical Illustration

Assembly's dimensions

