# Product data sheet

Specifications

To be discontinued

## active infeed converter - 340 kW - 380...480 V

VW3A7255

To be discontinued on: Dec 31, 2024

To be end-of-service on: Dec 31, 2032

## Main

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|---|---|
| **Device Short Name** | AIC |
| **Network Number Of Phases** | 3 phases |
| **[Us] Rated Supply Voltage** | 380...480 V +/- 10 % |
| **Network Frequency** | 50/60 Hz |
| **Rated Power In W** | 340 kW |
| **Range Compatibility** | Altivar 71<br>Altivar 61 |
| **Product Specific Application** | Component of the Active Front End<br>Energy regeneration<br>Low harmonics |
| **Product Compatibility** | ATV61HC31N4D 380...440 V AC with one variable speed drive<br>ATV71HC25N4D 380...440 V AC with one variable speed drive<br>ATV61HC31N4D 480 V AC with one variable speed drive<br>ATV71HC25N4D 480 V AC with one variable speed drive<br>ATV61H075N4...C63N4D DC with several variable speed drive on a common DC bus<br>ATV71H075N4...C50N4D DC with several variable speed drive on a common DC bus |
| **Assembly Style** | Built-in unit |
| **Type Of Cooling** | Forced convection |

## Complementary

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|---|---|
| **Line Current** | 495 A at 400 V<br>495 A at 480 V |
| **Input Power** | 342 kW at 400 V<br>396 kW at 480 V |
| **Continuous Output Current** | 517 A at 400 V<br>517 A at 480 V |
| **Output Voltage** | 650 V DC - supply: 380...400 V AC<br>720 V DC - supply: 440 V AC<br>770 V DC - supply: 480 V AC |
| **Thermal Losses** | 5800 W |
| **Max Current** | 1.20 x nominal current (duration = 60 s)<br>1.35 x nominal current (duration = 2 s) |
| **Maximum Voltage Drop At Rated Load** | <30 % at 380...400 V, <= 60 s<br><40 % at 440 V, <= 60 s<br><40 % at 480 V, <= 60 s |
| **Communication Port Protocol** | Modbus<br>CANopen |

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| **Connector Type** | 1 RJ45 for Modbus<br>Male SUB-D 9 on RJ45 for CANopen |
| **Option Card** | Communication bridge |
| **Operating Position** | Vertical +/- 10 degree |
| **Height** | 950 mm |
| **Width** | 585 mm |
| **Depth** | 377 mm |
| **Net Weight** | 140 kg |

## Environment

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|---|---|
| **Environmental Characteristic** | 3K3 conforming to EN/IEC 60721-3-3<br>3C2 conforming to EN 60721-3-3<br>3S2 conforming to EN 60721-3-3 |
| **Relative Humidity** | 0…95 % |
| **Ambient Air Temperature For Operation** | 45…60 °C (with current derating of 2 % per °C)<br>-10…45 °C |
| **Ambient Air Temperature For Storage** | -25…70 °C |
| **Operating Altitude** | <= 1000 m without derating<br>1000...3000 m with current derating 1 % per 100 m |
| **Pollution Degree** | 2 conforming to EN 61800-5-1 |
| **Vibration Resistance** | 1.5 mm (f= 3…10 Hz) conforming to EN/IEC 60068-2-6<br>0.6 gn (f= 10…200 Hz) conforming to EN/IEC 60068-2-6 |
| **Shock Resistance** | 4 gn for 11 ms conforming to EN/IEC 60721-3-3 |
| **Air Flow Surface** | 1000 cm² |
| **Volume Of Cooling Air** | 1200 m3/h for power circuit<br>330 m3/h for control circuit |
| **Ip Degree Of Protection** | IP00 |
| **Standards** | EN/IEC 61800-5-1 |
| **Product Certifications** | UL (pending)<br>CSA (pending)<br>CE |

## Packing Units

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 53.0 cm |
| **Package 1 Width** | 64.0 cm |
| **Package 1 Length** | 129.0 cm |
| **Package 1 Weight** | 160.0 kg |

## Contractual warranty

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

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

## Well-being performance

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|---|---|
| Mercury Free | |
| Rohs Exemption Information | Yes |

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Pro-active compliance (Product out of EU RoHS legal scope) |
| **China Rohs Regulation** | China RoHS declaration |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |