

# VW3A4551

line/motor choke - 10 mH - 4 A - 3 phases - 45  
W - for variable speed drive



## Main

| Range of product          | Altivar  |
|---------------------------|--|
| Product or component type | Line/motor choke   |
| Product compatibility     | <p>ATV12H018F1 - motor choke - 1 per drive</p> <p>ATV12H018M2 - motor choke - 1 per drive</p> <p>ATV12H018M3 - motor choke - 1 per drive</p> <p>ATV12H037F1 - motor choke - 1 per drive</p> <p>ATV12H037M2 - motor choke - 1 per drive</p> <p>ATV12H037M3 - motor choke - 1 per drive</p> <p>ATV12H055M2 - motor choke - 1 per drive</p> <p>ATV12P037F1 - motor choke - 1 per drive</p> <p>ATV12P037M2 - motor choke - 1 per drive</p> <p>ATV12P037M3 - motor choke - 1 per drive</p> <p>ATV12P055M2 - motor choke - 1 per drive</p> <p>ATV312H018M3 - line choke - 1 per drive</p> <p>ATV312H037M3 - line choke - 1 per drive</p> <p>ATV312H037N4 - line choke - 1 per drive</p> <p>ATV312H055M3 - line choke - 1 per drive</p> <p>ATV312H055N4 - line choke - 1 per drive</p> <p>ATV312H075M3 - line choke - 1 per drive</p> <p>ATV312H075N4 - line choke - 1 per drive</p> <p>ATV312H075S6 - line choke - 1 per drive</p> <p>ATV312HU11N4 - line choke - 1 per drive</p> <p>ATV312HU15N4 - line choke - 1 per drive</p> <p>ATV312HU15S6 - line choke - 1 per drive</p> <p>ATV32H037N4 - line choke - 1 per drive</p> <p>ATV32H055N4 - line choke - 1 per drive</p> <p>ATV32H075N4 - line choke - 1 per drive</p> <p>ATV32HU11N4 - line choke - 1 per drive</p> <p>ATV32HU15N4 - line choke - 1 per drive</p> <p>ATV61H075M3 - line choke - 1 per drive</p> <p>ATV61H075N4 - line choke - 1 per drive</p> <p>ATV61HU15N4 - line choke - 1 per drive</p> <p>ATV61HU30Y - line choke - 1 per drive</p> <p>ATV61W075N4 - line choke - 1 per drive</p> <p>ATV61W075N4C - line choke - 1 per drive</p> <p>ATV61WU15N4 - line choke - 1 per drive</p> <p>ATV61WU15N4C - line choke - 1 per drive</p> <p>ATV71H037M3 - line choke - 1 per drive</p> <p>ATV71H075M3 - line choke - 1 per drive</p> <p>ATV71H075N4 - line choke - 1 per drive</p> <p>ATV71HU15N4 - line choke - 1 per drive</p> <p>ATV71HU22Y - line choke - 1 per drive</p> <p>ATV71HU30Y - line choke - 1 per drive</p> <p>ATV71P075N4Z - line choke - 1 per drive</p> <p>ATV71PU15N4Z - line choke - 1 per drive</p> <p>ATV71W075N4 - line choke - 1 per drive</p> <p>ATV71WU15N4 - line choke - 1 per drive</p> <p>ATV61HU22S6X - line choke - 1 per drive</p> <p>ATV71HU15S6X - line choke - 1 per drive</p> <p>ATV71HU22S6X - line choke - 1 per drive</p> <p>ATV31C037N4 - line choke - 1 per drive</p> <p>ATV31C055N4 - line choke - 1 per drive</p> <p>ATV31C075N4 - line choke - 1 per drive</p> <p>ATV31CU11N4 - line choke - 1 per drive</p> <p>ATV31CU15N4 - line choke - 1 per drive</p> <p>Variable speed drive ATV310 0.37 kW - line choke - 1 per drive</p> <p>Variable speed drive ATV310 0.75 kW - line choke - 1 per drive</p> <p>Variable speed drive ATV340 0.75 kW 380...480 V - line choke - 1 per drive</p> <p>Variable speed drive ATV340 1.5 kW 380...480 V - line choke - 1 per drive</p> <p>Variable speed drive ATV320 0.37 kW 380...500 V - three phase - line choke - 1 per drive</p> <p>Variable speed drive ATV320 0.55 kW 380...500 V - three phase - line choke - 1 per drive</p> <p>Variable speed drive ATV320 0.75 kW 380...500 V - three phase - line choke - 1 per drive</p> <p>Variable speed drive ATV320 1.1 kW 380...500 V - three phase - line choke - 1 per drive</p> <p>Variable speed drive ATV320 1.5 kW 380...500 V - three phase - line choke - 1 per drive</p> <p>Variable speed drive ATV320 0.18 kW 200...240 V - three phase - line choke - 1 per drive</p> <p>Variable speed drive ATV320 0.37 kW 200...240 V - three phase - line choke - 1 per drive</p> <p>Variable speed drive ATV320 0.55 kW 200...240 V - three phase - line choke - 1 per drive</p> <p>Variable speed drive ATV320 0.75 kW 200...240 V - three phase - line choke - 1 per drive</p> |

|                       |   |
|-----------------------|---|
| Range compatibility   | Altivar 61<br>Altivar 312<br>Altivar Process ATV900<br>Altivar 32<br>Altivar 312 Solar<br>Altivar Process ATV600<br>Altivar 31C<br>Lexium 62<br>Easy Altivar 310<br>Altivar Machine ATV340<br>Altivar Machine ATV320<br>Altivar 71<br>Altivar 12<br>Easy Altivar 310L |
| Device application    | Reduction of current harmonics  |
| Value of inductance   | 10 mH   |
| Line Rated Current    | 4 A   |
| Thermal losses        | 45 W  |
| Electrical connection | Terminal 2.5 mm <sup>2</sup> / AWG 12, 3.54...5.31 lbf.in (0.4...0.6 N.m)   |

### Complementary

|                                    |  |
|------------------------------------|--|
| Power supply frequency             | 50...60 Hz                               |
| Max current                        | 1.65 x nominal current (duration = 60 s) |
| Maximum voltage drop at rated load | 5 %                                      |
| Electrical insulation class        | Class F                                  |
| Minimum clearance distance         | 5.5 mm IEC 60664                         |
| Leakage distance                   | 0.45 in (11.5 mm) IEC 60664              |
| Net Weight                         | 3.31 lb(US) (1.5 kg)                     |
| Width                              | 3.94 in (100 mm)                         |
| Height                             | 5.31 in (135 mm)                         |
| Depth                              | 2.36 in (60 mm)                          |

### Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | VDE 0160 level 1<br>IEC 60076 (with HD398)<br>EN 50178  |
| IP degree of protection               | Choke IP00<br>Terminals IP20  |
| Environmental characteristic          | 3B1 conforming to IEC 721-3-3<br>3C2 conforming to IEC 721-3-3<br>3S1 conforming to IEC 721-3-3                     |
| Pollution degree                      | 2 conforming to EN 50178  |
| Vibration resistance                  | 1 gn 13...200 Hz)IEC 60068-2-6<br>1.5 mm peak to peak 3...13 Hz)IEC 60068-2-6                                       |
| Shock resistance                      | 15 gn 11 ms IEC 60068-2-27  |
| Relative humidity                     | 0...95 %  |
| Ambient air temperature for operation | 113...131 °F (45...55 °C) with current derating of 2 % per °C)<br>32...113 °F (0...45 °C) without current derating) |
| Ambient air temperature for storage   | -13...158 °F (-25...70 °C)  |
| Operating altitude                    | <= 1000 m without current derating<br>3280.84...9842.52 ft (1000...3000 m) with current derating 1 % per 100 m      |

### Ordering and shipping details

|                       |  |
|-----------------------|--|
| Category              | 18305 - MOTION CONTROL CONNECTORS & ACCESS |
| Discount Schedule     | PC51                                       |
| GTIN                  | 00785901061038                             |
| Nbr. of units in pkg. | 1  |
| Package weight(Lbs)   | 4.14 lb(US) (1.88 kg)                      |
| Returnability         | No   |
| Country of origin     | FR   |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Package 1 Height             | 7.56 in (19.2 cm)        |
| Package 1 width              | 8.35 in (21.2 cm)        |
| Package 1 Length             | 7.64 in (19.4 cm)        |
| Unit Type of Package 2       | CAR                      |
| Number of Units in Package 2 | 1                        |
| Package 2 Weight             | 4.00 lb(US) (1.816 kg)   |
| Package 2 Height             | 9.84 in (25 cm)          |
| Package 2 width              | 8.27 in (21 cm)          |
| Package 2 Length             | 6.69 in (17 cm)          |
| Unit Type of Package 3       | S06                      |
| Number of Units in Package 3 | 20                       |
| Package 3 Weight             | 108.73 lb(US) (49.32 kg) |
| Package 3 Height             | 28.94 in (73.5 cm)       |
| Package 3 width              | 23.62 in (60 cm)         |
| Package 3 Length             | 31.50 in (80 cm)         |

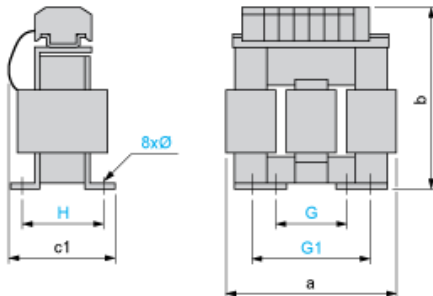
## Offer Sustainability

|                            |   |
|----------------------------|---|
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>  |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |

## Contractual warranty

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

Dimensions



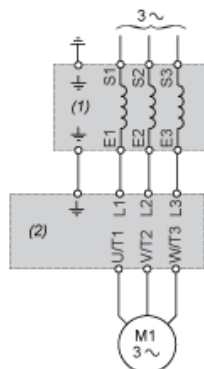
Dimensions in mm

| a   | b   | c1 | G  | G1 | H  | Ø     |
|-----|-----|----|----|----|----|-------|
| 100 | 135 | 60 | 40 | 60 | 42 | 6 x 9 |

Dimensions in in.

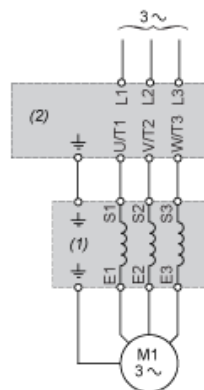
| a    | b    | c1   | G    | G1   | H    | Ø           |
|------|------|------|------|------|------|-------------|
| 3.94 | 5.31 | 2.36 | 1.57 | 2.36 | 1.65 | 0.24 x 0.35 |

Recommended Schema - Line Choke



- (1) Line Choke
- (2) Drive

Recommended Schema - Motor Choke



- (1) Motor Choke
- (2) Drive