Product data sheet
Characteristics

VW3A4551
line/motor choke - 10 mH - 4 A - 3 phases - 45 W - for variable speed drive



The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Main

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

Range Compatibility	Altivar 61 Altivar 312 Altivar Process ATV900 Altivar 32 Altivar 312 Solar Altivar Process ATV600 Altivar 31C Lexium 62 Easy Altivar 310 Altivar Machine ATV340 Altivar Machine ATV320 Altivar 71 Altivar 12 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 mm² / 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 60 s)
Maximum voltage drop at rated load	5 %
Electrical Insulation Class	Class F
Minimum clearance distance	0.22 in (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 IEC 60076 (with HD398) EN 50178
IP Degree of Protection	Choke IP00 Terminals IP20
Environmental characteristic	3B1 IEC 721-3-3 3C2 IEC 721-3-3 3S1 IEC 721-3-3
Pollution degree	2 EN 50178
Vibration resistance	1 gn 13…200 Hz)IEC 60068-2-6 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) 32…113 °F (0…45 °C) without current derating)
Ambient Air Temperature for Storage	-13…158 °F (-25…70 °C)
Operating altitude	<= 3280.84 ft (1000 m) without current derating 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	3389118066014
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.45 in (24.000 cm)
Package 1 Width	8.07 in (20.500 cm)
Package 1 Length	5.91 in (15.000 cm)
Package 1 Weight	4.62 lb(US) (2.097 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	10
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	67.24 lb(US) (30.500 kg)

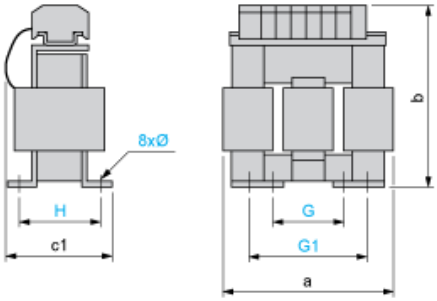
Offer Sustainability

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 www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes

Contractual warranty

Warranty	18 months

Dimensions



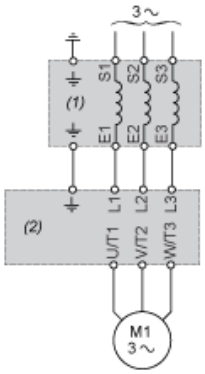
Dimensions in mm

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

Dimensions in in.

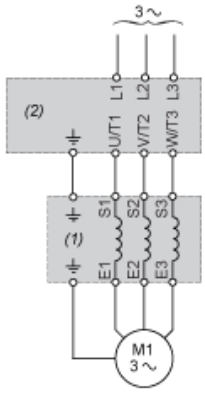
a	b	c1	G	G1	H	Ø
3.94	5.31	2.36	1.57	2.36	1.65	0.24 x 0.35

Recommended Schema - Line Choke



(1) Line Choke
(2) Drive

Recommended Schema - Motor Choke



(1) Motor Choke
(2) Drive