Product datasheet

Specifications

Green Premium™

standard power module , Altivar Process Modular, 110...160kW, 380…480V, IP00

APM1A0C16N401

Main

Range of product	Altivar Process Modular
Product or component type	Power module
Device short name	APM
Product destination	Synchronous motors Asynchronous motors
Mounting mode	Cabinet mount
Kit composition	1 power module 1 mains unit 3 fuse holder 2 brackets with nuts screws and washers for fuse
EMC filter	Integrated with 300 m conforming to EN/IEC 61800-3 category C3
IP degree of protection	IP00 conforming to IEC 61800-5-1 IP00 conforming to IEC 60529
Supply frequency	50...60 Hz - 5...5 %
Network number of phases	3 phases
[Us] rated supply voltage	380...480 V - 10...10 %
Motor power kW	160 kW at 400 V (normal duty) 132 kW at 400 V (heavy duty)
Motor power hp	250 hp at 480 V normal duty

Complementary

Prospective line Isc	50 kA
Apparent power	223 kVA at 480 V normal duty 181 kVA at 480 V heavy duty
Continuous output current	302 A at 2.5 kHz for normal duty 250 A at 2.5 kHz for heavy duty
Switching frequency	2.5...8 kHz with derating factor 2...8 kHz adjustable
Permissible temporary current boost	1.1 x In during 60 s (normal duty) 1.5 x In during 60 s (heavy duty)
Electrical connection	Control: removable screw terminals 0.5...1.5 mm²/AWG 20...AWG 16 Line side: screw terminal Motor: M10 x 2 bars
Width	230 mm
Height	1705 mm

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Depth	510 mm
Product weight	155 kg
Isolation	Between power and control terminals
Marking	CE

Environment

Insulation resistance	> 1 MOhm 500 V DC for 1 minute to earth
Operating position	Vertical +/- 10 degree
Maximum THDI	<48 % full load conforming to IEC 61000-3-12
Electromagnetic compatibility	Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6
Pollution degree	2 conforming to EN/IEC 61800-5-1
Vibration resistance	1.5 mm peak to peak (f= 2…13 Hz) conforming to IEC 60068-2-6 0.5 gn (f= 13…200 Hz) conforming to IEC 60068-2-6
Shock resistance	7 gn for 11 ms conforming to IEC 60068-2-27
Relative humidity	5…95 % without condensation conforming to IEC 60068-2-3
Ambient air temperature for operation	-10…40 °C (without derating) 40…50 °C (with derating factor)
Ambient air temperature for storage	-40…70 °C
Operating altitude	<= 1000 m without derating 1000...4800 m with current derating 1 % per 100 m
Environmental characteristic	Chemical pollution resistance class 3C3 conforming to EN/IEC 60721-3-3 Dust pollution resistance class 3S3 conforming to EN/IEC 60721-3-3
Standards	EN/IEC 61800-3 EN/IEC 61800-5-1 IEC 61000-3-12 IEC 60721-3 IEC 61508 IEC 13849-1
Product certifications	TÜV

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	69.0 cm
Package 1 Width	75.0 cm
Package 1 Length	136.0 cm
Package 1 Weight	189.0 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile

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Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Recommended replacement(s)