

Product datasheet

Specifications



standard power module , Altivar
Process Modular, 450 kW, 500...
690V, IP00, liquid cooled

APM1L0C45Y6

EAN Code: 3606481012753

Main

Range of product	Altivar Process Modular
Product or component type	Power module
Product destination	Synchronous motors Asynchronous motors
Mounting mode	Cabinet mount
EMC filter	Without EMC filter conforming to IEC 61800-3 category C3
IP degree of protection	IP00 conforming to IEC 61800-5-1 IP21 (for cabinet integration) conforming to IEC 61800-5-1 IP66 (for cabinet integration) conforming to IEC 61800-5-1
Supply frequency	50...60 Hz - 5...5 %
Network number of phases	3 phases
[Us] rated supply voltage	500...690 V - 10...10 %
Motor power kW	450 kW at 500...690 V (normal duty) 355 kW at 500...690 V (heavy duty)
Motor power hp	500 hp at 600 V normal duty 400 hp at 600 V heavy duty

Complementary

Degree of protection	UL type 1 conforming to UL 61800-5-1 (cabinet integration) UL type 12 conforming to UL 61800-5-1 (cabinet integration)
Prospective line Isc	50 kA
Apparent power	372 kVA at 500 V normal duty 298 kVA at 500 V heavy duty 439 kVA at 600 V normal duty 353 kVA at 600 V heavy duty 533 kVA at 690 V normal duty 429 kVA at 690 V heavy duty
Continuous output current	480 A at 2.5 kHz for normal duty 370 A at 2.5 kHz for heavy duty
Switching frequency	2...4.9 kHz adjustable with derating factor
Width	232 mm
Height	1018 mm
Depth	526 mm
Net weight	82.5 kg
Marking	CE

Environment

Rates duty January 2016

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

Insulation resistance	> 1 MOhm 500 V DC for 1 minute to earth
Operating position	Vertical integrated in cabinet
Maximum THDI	<48 % full load at 6-pulse supply <9 % full load at 12-pulse supply
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 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	4 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)
Coolant temperature for operation	5...55 °C
Ambient air temperature for storage	-40...70 °C
Operating altitude	<= 4800 m with current derating above 1000m
Environmental characteristic	Chemical pollution resistance class 3C3 conforming to IEC 60721-3-3 Dust pollution resistance class 3S3 conforming to IEC 60721-3-3
Standards	UL 61800-5-1 IEC 61800-3 IEC 61800-5-1 IEC 61000-3-12 IEC 60721-3 IEC 61508 IEC 13849-1
Product certifications	TÜV cULus

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	75.000 cm
Package 1 Width	63.000 cm
Package 1 Length	122.000 cm
Package 1 Weight	102.500 kg

Environmental Data

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.eq.CO2 per CR, Total Life cycle)	177610
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Be2c2d5e-06c0-4656-a3aa-423d15b54c40
REACH Regulation	REACH Declaration

Use Again

Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins