Product data sheet

Specifications



Braking Unit for ATV900, APM, Single Drive, 400 V, 500 kW

MODBUOC50Q4APM

Main

Range of product	Altivar Process Modular
Product or component type	Control module
[Us] rated supply voltage	400 V
Maximum current Irms	247.0 A during braking phase 176.0 A over whole braking sequence 198.0 A for continuous operation
Nominal power	500 kW

Complementary

Permanent braking power	600.0 kW (5 % (12 s)) 352.0 kW (50 % (120 s)) 225.0 kW (100 %)
Tightening torque	243 lb.in 27.5 N.m
Power factor	100
Network number of phases	3 phases
Electrical connection	Resistor PA1, PA2, PA3, PB1, PB2, PB3: screw terminal 6 x 120 mm²/6 x 300 kcmil
Kit composition	1 Control unit 1
Cycle time	240 s

Environment

IP degree of protection	IP21 conforming to IEC 61800-5-1 IP54 conforming to IEC 61800-5-1 IP21 conforming to IEC 60529 IP54 conforming to IEC 60529
Operating altitude	0...4800 m with current derating above 1000m
Ambient air temperature for operation	-10…40 °C (without derating) 40…50 °C (with derating factor)
Ambient air temperature for storage	-40…70 °C
Standards	EN/IEC 61800-3 EN/IEC 61800-5-1 IEC 61000-3-12 IEC 60721-3 IEC 61508 IEC 13849-1 UL 61800-5-1
Product certifications	TÜV cUL
Marking	CE

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

Environmental characteristic	3C3 conforming to IEC 60721-3-3
Pollution degree	2 conforming to IEC 61800-5-1
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
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
Noise level	69 dB conforming to 86/188/EEC
Insulation resistance	For 1 minute, between supply and earth terminals: > 1 MOhm at 500 V DC
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

Contractual warranty

Warranty (in months)	18