

variable speed drive, Altivar 12, 0.55kW, 0.75hp, 200 to 240V, 1 phase, on base plate, lot of 14

ATV12P055M2TQ

Discontinued on: Nov 24, 2021

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Main

Range Of Product	Altivar 12
Product Or Component Type	Variable speed drive
Product Specific Application	Simple machine
Mounting Mode	Cabinet mount
Communication Port Protocol	Modbus
Supply Frequency	50/60 Hz +/- 5 %
[Us] Rated Supply Voltage	200240 V - 1510 %
Nominal Output Current	3.5 A
Motor Power Hp	0.75 hp
Motor Power Kw	0.55 kW
Motor Power Hp	0.75 hp
Emc Filter	Integrated
Ip Degree Of Protection	IP20

Complementary

Discrete Input Number	4
Discrete Output Number	2
Analogue Input Number	1
Analogue Output Number	1
Relay Output Number	1
Physical Interface	2-wire RS 485
Connector Type	1 RJ45
Continuous Output Current	3.5 A at 4 kHz
Method Of Access	Server Modbus serial
Speed Drive Output Frequency	0.5400 Hz
Speed Range	120
Sampling Duration	20 ms, tolerance +/- 1 ms for logic input 10 ms for analogue input
Linearity Error	+/- 0.3 % of maximum value for analogue input
Frequency Resolution	Analog input: converter A/D, 10 bits Display unit: 0.1 Hz

Time Constant	20 ms +/- 1 ms for reference change
Transmission Rate	9.6 kbit/s 19.2 kbit/s 38.4 kbit/s
Transmission Frame	RTU
Number Of Addresses	1247
Data Format	8 bits, configurable odd, even or no parity
Communication Service	Read holding registers (03) 29 words Write single register (06) 29 words Write multiple registers (16) 27 words Read/write multiple registers (23) 4/4 words Read device identification (43)
Type Of Polarization	No impedance
4 Quadrant Operation Possible	False
Asynchronous Motor Control Profile	Sensorless flux vector control Quadratic voltage/frequency ratio Voltage/frequency ratio (V/f)
Maximum Output Frequency	4 kHz
Transient Overtorque	150170 % of nominal motor torque depending on drive rating and type of motor
Acceleration And Deceleration Ramps	Linear from 0 to 999.9 s S U
Motor Slip Compensation	Adjustable Preset in factory
Switching Frequency	216 kHz adjustable 416 kHz with derating factor
Nominal Switching Frequency	4 kHz
Braking To Standstill	By DC injection
Brake Chopper Integrated	False
Line Current	8.0 A at 100 V (heavy duty) 6.7 A at 120 V (heavy duty)
Maximum Input Current	6.7 A
Maximum Output Voltage	240 V
Apparent Power	at 240 V (heavy duty)
Network Frequency	5060 Hz
Relative Symmetric Network Frequency Tolerance	5 %
Prospective Line Isc	1 kA
With Safety Function Safely Limited Speed (Sls)	False
With Safety Function Safe Brake Management (Sbc/Sbt)	False
With Safety Function Safe Operating Stop (Sos)	False
With Safety Function Safe Position (Sp)	False
With Safety Function Safe Programmable Logic	False
With Safety Function Safe Speed Monitor (Ssm)	False
With Safety Function Safe Stop 1 (Ss1)	False
With Sft Fct Safe Stop 2 (Ss2)	False
With Safety Function Safe Torque Off (Sto)	False

False Line supply overvoltage Line supply undervoltage Overcurrent between output phases and earth Overheating protection Short-circuit between motor phases Against input phase loss in three-phase Thermal motor protection via the drive by continuous calculation of I²t 0.8 N.m
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Thermal motor protection via the drive by continuous calculation of I²t
0.8 N m
0.0 Hall
Electrical between power and control
Set of 1
72 mm
143 mm
102.2 mm
0.7 kg
> 10002000 m with current derating 1 % per 100 m <= 1000 m without derating
Vertical +/- 10 degree
NOM
CSA
C-Tick
UL
GOST
RCM
KC
CE
UL 508C
UL 618000-5-1
EN/IEC 61800-5-1
EN/IEC 61800-3
On base plate
Electrical fast transient/burst immunity test level 4 conforming to EN/IEC 61000-4-4
Electrostatic discharge immunity test level 3 conforming to EN/IEC 61000-4-2
Immunity to conducted disturbances level 3 conforming to EN/IEC 61000-4-6
Radiated radio-frequency electromagnetic field immunity test level 3 conforming to
EN/IEC 61000-4-3
Surge immunity test level 3 conforming to EN/IEC 61000-4-5
Voltage dips and interruptions immunity test conforming to EN/IEC 61000-4-11
Class 3C3 according to IEC 60721-3-3
Class 3S2 according to IEC 60721-3-3

fast transient/burst immunity test level 4 conforming to EN/IEC 61000-4-4 atic discharge immunity test level 3 conforming to EN/IEC 61000-4-2 to conducted disturbances level 3 conforming to EN/IEC 61000-4-6 radio-frequency electromagnetic field immunity test level 3 conforming to 11000-4-3 munity test level 3 conforming to EN/IEC 61000-4-5 lips and interruptions immunity test conforming to EN/IEC 61000-4-11
3 according to IEC 60721-3-3 2 according to IEC 60721-3-3
at 11 ms
it 13200 Hz
it 213 Hz
e PID regulator
o

Ambient Air Temperature For Operation Ambient Air Temperature For Storage
Ambient Air Transport Temperature
Pollution Degree
Noise Level
Relative Humidity
Shock Resistance
Vibration Resistance

Number Of Units In Package 1