GENERAL SPECIFICATIONS

Specification	Value
Range of Product	Altistart 22
Product or Component Type	Soft starter
Product destination	Asynchronous motors
Product Specific Application	Pumps and fans
Component name	ATS22
Phase	3 phase
[Us] rated supply voltage	230...440 V - 15...10 %
Motor power kW	110 kW 400 V 110 kW 440 V 55 kW 230 V
Factory setting current	195 A
Power dissipation in W	117 W for standard applications
Utilisation category	AC-53A
Type of start	Start with torque control (current limited to 3.5 In)
IcL starter rating	210 A connection in the motor supply line for standard applications
IP Degree of Protection	IP00

COMPLEMENTARY SPECIFICATIONS

Specification	Value
Assembly style	With heat sink
Function Available	Internal bypass
Supply voltage limits	195...484 V
Supply frequency	50...60 Hz - 10...10 %
Network Frequency	45...66 Hz
Device connection	To the motor delta terminals In the motor supply line
[Uc] control circuit voltage	230 V - 15...10 % 50/60 Hz
Control circuit consumption	20 W
Discrete output number	2
Discrete output type	Relay outputs R1 230 V running, alarm, trip, stopped, not stopped, starting, ready C/O Relay outputs R2 230 V running, alarm, trip, stopped, not stopped, starting, ready C/O
Minimum switching current	100 mA 12 V DC relay outputs
Maximum switching current	5 A 250 V AC resistive 1 relay outputs 5 A 30 V DC resistive 1 relay outputs 2 A 250 V AC inductive 0.4 20 ms relay outputs 2 A 30 V DC inductive 7 ms relay outputs
Discrete input number	3
Discrete input type	LI1, LI2, LI3 logic, 5 mA 4.3 kOhm
Discrete input voltage	24 V <= 30 V

COMPLEMENTARY SPECIFICATIONS

Specification	Value
Discrete input logic	Positive logic LI1, LI2, LI3 < 5 V <= 2 mA > 11 V, >= 5 mA
Output current	0.4...1 IcL adjustable
PTC probe input	750 Ohm
Communication Port Protocol	Modbus
Connector Type	1 RJ45
Communication data link	Serial
Physical interface	RS485 multidrop
Transmission Rate	4800, 9600 or 19200 bps
Installed device	31
Protection type	Phase failure line Thermal protection motor Thermal protection starter
Marking	CE
Type of cooling	Forced convection
Operating position	Vertical +/- 10 degree
Height	16.7 in (425 mm)
Width	8.1 in (206 mm)
Depth	11.8 in (299 mm)
Net Weight	72.8 lb(US) (33 kg)
Motor power range AC-3	55...100 kW 200...240 V 3 phase 110...220 kW 380...440 V 3 phase
Motor starter type	Soft starter

ENVIRONMENT SPECIFICATIONS

Specification	Value
Electromagnetic compatibility	Conducted and radiated emissions level A conforming to IEC 60947-4-2 Damped oscillating waves level 3 conforming to IEC 61000-4-12 Electrostatic discharge level 3 conforming to IEC 61000-4-2 Immunity to electrical transients level 4 conforming to IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3 Voltage/current impulse level 3 conforming to IEC 61000-4-5
Standards	IEC 60947-4-2
Product Certifications	CCC UL GOST CSA C-tick
Vibration resistance	1 gn (f=13...200 Hz) conforming to IEC 60068-2-6 1.5 mm (f=2...13 Hz) conforming to IEC 60068-2-6
Shock resistance	15 gn 11 ms IEC 60068-2-27
Noise level	56 dB

ENVIRONMENT SPECIFICATIONS

Specification	Value
Pollution degree	Level 2 IEC 60664-1
Relative humidity	0...95 % without condensation or dripping water IEC 60068-2-3
Ambient air temperature for operation	14...104 °F (-10...40 °C) (without derating) 104...140 °F (40...60 °C) (with current derating 2.2 % per °C)
Ambient Air Temperature for Storage	-13...158 °F (-25...70 °C)
Operating altitude	<= 3280.84 ft (1000 m) without derating > 3280.84...< 6561.68 ft (>1000...<2000 m) with current derating of 2.2 % per additional 100 m

PACKING UNITS SPECIFICATIONS

Specification	Value
Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	(46.000 cm)
Package 1 Width	(40.000 cm)
Package 1 Length	(60.100 cm)
Package weight(Lbs)	(24.500 kg)
Warranty (in months)	18

PACKING UNITS SPECIFICATIONS

