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
Network number of phases	3 phases
[Us] rated supply voltage	230...440 V - 15...10 %
Motor power kW	30 kW 230 V 55 kW 400 V 55 kW 440 V
Factory setting current	100 A
Power dissipation in W	73 W for standard applications
Utilisation category	AC-53A
Type of start	Start with torque control (current limited to 3.5 In)
IcL starter rating	110 A for connection in the motor supply line for standard applications
IP degree of protection	IP20

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	In the motor supply line To the motor delta terminals
[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 at 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 at State 0: < 5 V and <= 2 mA at State 1: > 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	356 mm
Width	150 mm
Depth	229.5 mm
Net weight	18 kg
Motor power range AC-3	30...50 kW at 200...240 V 3 phases 55...100 kW at 380...440 V 3 phases
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	UL CSA GOST C-Tick CCC
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 for 11 ms conforming to IEC 60068-2-27

ENVIRONMENT SPECIFICATIONS

Specification	Value
Noise level	56 dB
Pollution degree	Level 2 conforming to IEC 60664-1
Relative humidity	0...95 % without condensation or dripping water conforming to IEC 60068-2-3
Ambient air temperature for operation	-10...40 °C (without derating) 40...60 °C (with current derating 2.2 % per °C)
Ambient air temperature for storage	-25...70 °C
Operating altitude	<= 1000 m without derating > 1000...< 2000 m with current derating of 2.2 % per additional 100 m

PACKING UNITS SPECIFICATIONS

Specification	Value
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	25.000 cm
Package 1 Width	33.000 cm
Package 1 Length	41.000 cm
Package 1 Weight	12.744 kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	64.472 kg
Warranty (in months)	18

PACKING UNITS SPECIFICATIONS

