Product data sheet
Characteristics

ATS130N2C11LT
Altivar Soft Starter ATS130, 105A, 200 to 480V AC, control supply 24V DC



Main

Range of product	Altivar Soft Starter ATS130
Product or component type	Soft starter
Product destination	Asynchronous motors
Product specific application	Simple machine
Device short name	ATS130
Network number of phases	3 phases
Utilisation category	AC-53A
[Us] rated supply voltage	200...480 V - 15...10 %
Supply frequency	50...60 Hz +/- 5 Hz
[Ie] rated operational current	105 A in line (at <40 °C)
Service factor	100
Torque control	False
IP degree of protection	IP20
Motor power kW	30 KW at 230 V normal duty 55 KW at 400 V normal duty 55 KW at 440 V normal duty
Motor power hp	30 Hp at 200 V normal duty 30 Hp at 208 V normal duty 40 Hp at 230 V normal duty 75 Hp at 460 V normal duty 75 Hp at 480 V normal duty

Complementary

Overload current	300 % Ie for 5 s
On-load factor	70 %
Operating rate	10 cyc/h
Minimum motor current	20 % Ie
Device connection	In line
[Uc] control circuit voltage	24 V DC +/- 10 %
Control power	21.6 W starting and stopping 3 W steady state
Integrated motor overload protection	False
Protection type	Phase failure: mains Thermal protection: starter Bypass error: starter Control voltage Us: starter
Rated current pwr loss specification	105 A
Power loss static current independent	3 W
Power loss per device current dependent	27 W
Power losses	703 W 300 % Ie

Standards	EN/IEC 60947-4-2 UL 60947-4-2 IEC 60664-1
Product certifications	CE[RETURN]UKCA[RETURN]CCC[RETURN]RCM[RETURN]EAC[RETURN]UL
Marking	CE CCC UKCA RCM EAC
[Uc] control circuit voltage	24 V DC
Discrete input number	3
Discrete input type	(DI) digital input, 10 kOhm (DI2) digital input, 10 kOhm (BOOST) digital input, 10 kOhm
Input compatibility	Discrete input level 1 PLC conforming to EN/IEC 61131-2
Discrete input logic	Digital input at State 0: 0...< 5 V and <= 0.2 mA at State 1: > 13 V, >= 0.5 mA
Relay output number	1
Relay output type	Relay outputs R1A, R1C NO
Minimum switching current	2.5 MA at 24 V DC for relay outputs
Maximum switching current	On resistive load for relay outputs : 1 A 250 V AC 400000 cycles On resistive load for relay outputs : 1 A 30 V DC 400000 cycles On inductive load for relay outputs : 1 A 250 V AC cos phi = 0.4 100000 cycles On inductive load for relay outputs : 1 A 30 V DC cos phi = 0.4 100000 cycles
Discrete output number	1
Discrete output type	Non programmable digital output DQ1 <= 30 V 200 mA
Display type	1 LED (green) for control power energized 1 LED (yellow and red) for motor operation phases, errors
Display screen available	False
Operating position	Vertical +/- 30 degree
Height	197 Mm
Width	81 Mm
Depth	180 Mm
Net weight	2.3 Kg
Suitable for mounting onto standard rails	True
Function available	Deceleration voltage ramp Boost
Internal bypass	True
Material declaration	True

Environment

Pollution degree	Level 2
Environmental characteristic	Without salt mist: 3C3 conforming to IEC 60721-3-3 3S3 conforming to IEC 60721-3-3
[Uimp] rated impulse withstand voltage	4 KV
[Ui] rated insulation voltage	480 V
Electromagnetic compatibility	Conducted and radiated emissions level B conforming to IEC 60947-4-2 Short voltage interruptions level 3 conforming to IEC 61000-4-11 Electrostatic discharge level 2 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 1 conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test level 2 conforming to IEC 61000-4-4 Oscillatory waves immunity level 3 conforming to IEC 61000-4-12 Voltage/Current impulse level 2 conforming to IEC 61000-4-5 Conducted disturbances, induced by radiofrequency fields level 1 conforming to IEC 61000-4-6
Ambient air temperature for operation	-10…40 °C (without derating) 40…60 °C (with current derating of 2 % per °C)
Ambient air temperature for storage	-25…70 °C
Ambient air transport temperature	-40…70 °C
Operating altitude	0...1000 m without derating 1000...4000 m 1 % per 100 m
Relative humidity	5…95 % non condensing without dripping water conforming to IEC 60068-2-3
Maximum acceleration under vibrational stress (during operation)	10 m/s² at 9...200 Hz
Maximum acceleration under vibratory load (during storage)	10 m/s² at 9...200 Hz
Maximum acceleration under vibratory load (during transport)	10 m/s² at 9...200 Hz

Maximum deflection under vibratory load (during operation)	3 mm at 2-9 Hz
Maximum deflection under vibratory load (during storage)	3 mm at 2-9 Hz
Maximum deflection under vibratory load (during transport)	3 mm at 2-9 Hz
Maximum acceleration under shock impact (during operation)	100 m/s² at 11 ms
Maximum acceleration under shock load (during storage)	100 m/s² at 11 ms
Maximum acceleration under shock load (during transport)	100 m/s² at 11 ms

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.300 Cm
Package 1 Width	27.000 Cm
Package 1 Length	28.000 Cm
Package 1 Weight	2.548 Kg
Unit Type of Package 2	S03
Number of Units in Package 2	3
Package 2 Height	30 Cm
Package 2 Width	30 Cm
Package 2 Length	40 Cm
Package 2 Weight	8.197 Kg

Offer Sustainability

Recyclability potential, in %	63
Total lifecycle Carbon footprint	252 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	163.42
Carbon footprint of the manufacturing phase [A1 to A3]	163 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.30178
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0044923
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	87.666
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	88 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.37251
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	252
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised