

Product data sheet

Specifications



Altivar Soft Starter ATS130, 80A, 200 to 480V AC, control supply 24V DC

ATS130N2D80LT

Product availability: Stock - Normally stocked in distribution facility

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 |
| Phase | 3 phase |
| Utilisation category | AC-53A |
| Ue power supply voltage | 200...480 V - 15...10 % |
| power supply frequency | 50...60 Hz +/- 5 Hz |
| [Ie] rated operational current | 80 A in line 104 °F (40 °C)) |
| Service factor at Ie | 100 |
| Torque control | False |
| IP Degree of Protection | IP20 |
| Motor power kW | 22 kW 230 V normal duty 45 kW 400 V normal duty 45 kW 440 V normal duty |
| Maximum Horse Power Rating | 25 hp 200 V normal duty 25 hp 208 V normal duty 30 hp 230 V normal duty 60 hp 460 V normal duty 60 hp 480 V normal duty |

Complementary

| | |
|--------------------------------------|---|
| Overload current profile | 300 % Ie for 5 s |
| On-load factor | 70 % |
| Operating cycles/hour | 25 cyc/h |
| Minimum motor current | 20 % Ie |
| Device connection | In line |
| [Us] 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 |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

| | |
|--|--|
| [In] Rated current pwr loss specifctn | 80 A |
| Power loss static current independent | 3 W |
| Power loss per device current dependent | 16 W |
| Power loss during starting | 512 W 300 % Ie |
| Standards | EN/IEC 60947-4-2 UL 60947-4-2 IEC 60664-1 |
| Product Certifications | CE UKCA CCC RCM EAC UL |
| Marking | CE CCC UKCA RCM EAC |
| [Uc] control circuit voltage | 24 V DC |
| Discrete input number | 3 |
| Discrete input type | DI1) digital input, 10 kOhm DI2) digital input, 10 kOhm BOOST) digital input, 10 kOhm |
| Input compatibility | discrete input level 1 PLC EN/IEC 61131-2 |
| Discrete input logic | Digital input 0...< 5 V <= 0.2 mA > 13 V, >= 0.5 mA |
| Relay output number | 1 |
| Relay output type | Relay outputs R1A, R1C NO |
| Minimum switching current | 2.5 mA 24 V DC 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)control power energized 1 LED yellow and red)motor operation phases, errors |
| Display screen available | False |
| Operating position | Vertical +/- 30 degree |
| Height | 7.8 in (197 mm) |
| Width | 3.2 in (81 mm) |
| Depth | 7.09 in (180 mm) |
| Product Weight | 5.07 lb(US) (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 class (during operation) | Without salt mist 3C3 IEC 60721-3-3 3S3 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 | 14...104 °F (-10...40 °C) (without derating) 104...140 °F (40...60 °C) (with current derating of 2 % per °C) |
| Ambient Air Temperature for Storage | -13...158 °F (-25...70 °C) |
| Ambient air transport temperature | -40...158 °F (-40...70 °C) |
| Operating altitude | 0...3280.84 ft (0...1000 m) without derating 3280.84...13123.36 ft (1000...4000 m) 1 % per 100 m |
| Relative humidity | 5...95 % non condensing without dripping water IEC 60068-2-3 |
| Maximum acceleration under vibrational stress (during operation) | 10 m/s ² at 9...200 Hz |
| Maximum acceleration under vibratory load (during storage) | 10 m/s ² at 9...200 Hz |
| Maximum acceleration under vibratory load (during transport) | 10 m/s ² 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/s ² at 11 ms |
| Maximum acceleration under shock load (during storage) | 100 m/s ² at 11 ms |
| Maximum acceleration under shock load (during transport) | 100 m/s ² at 11 ms |

Ordering and shipping details

| | |
|--------------------------|---------------|
| Category | US10I1122392 |
| Discount Schedule | 0I11 |
| GTIN | 3606486007433 |
| Returnability | Yes |
| Country of origin | DE |

Packing Units

| | |
|-------------------------------|-----------------------|
| Unit Type of Package 1 | PCE |
| Nbr. of units in pkg. | 1 |
| Package 1 Height | 3.346 in (8.500 cm) |
| Package 1 Width | 10.630 in (27.000 cm) |
| Package 1 Length | 11.024 in (28.000 cm) |

| | |
|-------------------------------------|----------------------------|
| Package weight(Lbs) | 5.644 lb(US) (2.560 kg) |
| Unit Type of Package 2 | S06 |
| Number of Units in Package 2 | 28 |
| Package 2 Height | 29.528 in (75.000 cm) |
| Package 2 Width | 23.622 in (60.000 cm) |
| Package 2 Length | 31.496 in (80.000 cm) |
| Package 2 Weight | 178.575 lb(US) (81.000 kg) |

Contractual warranty

| | |
|-----------------------------|----|
| Warranty (in months) | 18 |
|-----------------------------|----|



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

| | |
|--|---|
| Total lifecycle Carbon footprint | 249 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 161 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.3 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 88 kg CO2 eq. |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.4 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |

Use Better



Materials and Substances

| | |
|--|--|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| EU RoHS Directive | Compliant |
| REACH Regulation | Free of Substances of Very High Concern above the threshold |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

Use Longer



Lifetime extension

| | |
|--------|----|
| Repair | No |
|--------|----|

Use Again



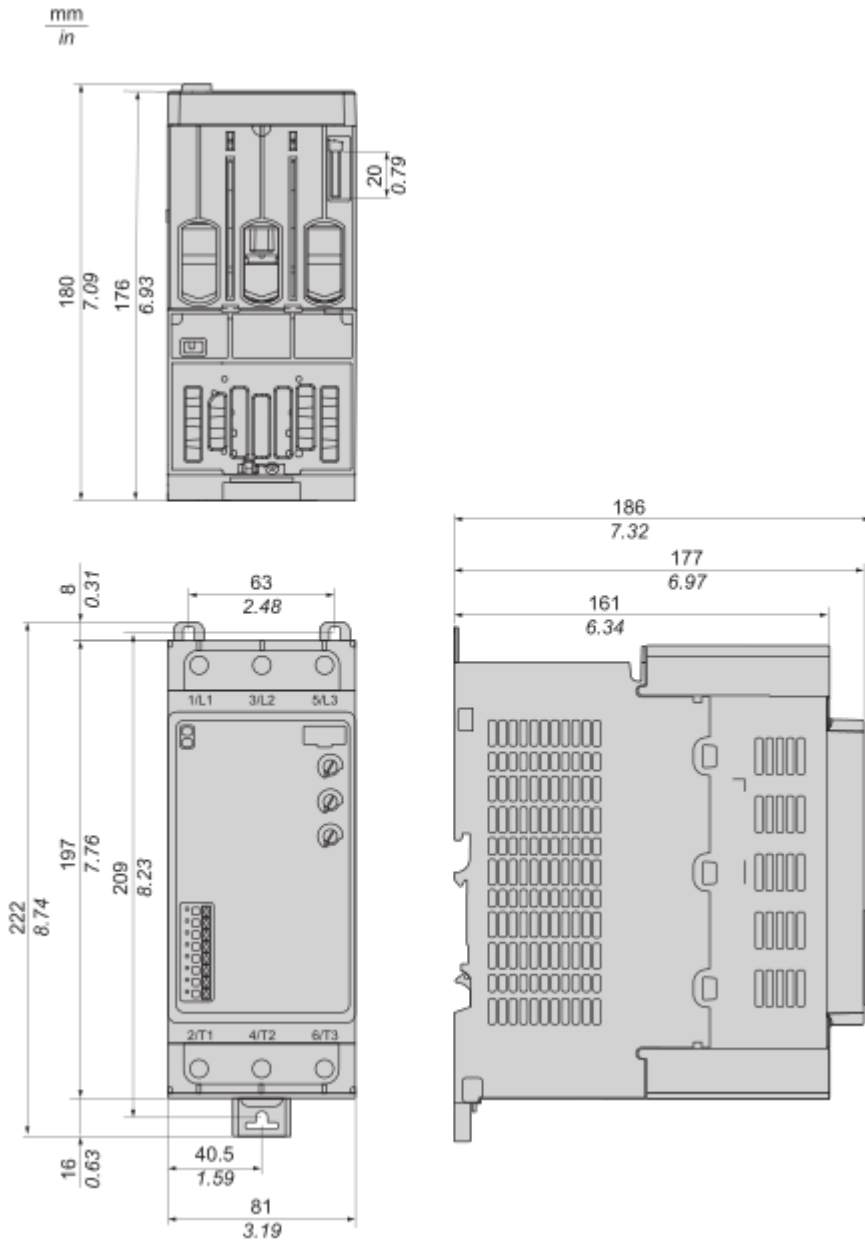
Repack and remanufacture

| | |
|---------------------|--|
| Circularity Profile | End of Life Information |
| Take-back | No |
| WEEE Label |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Dimensions Drawings

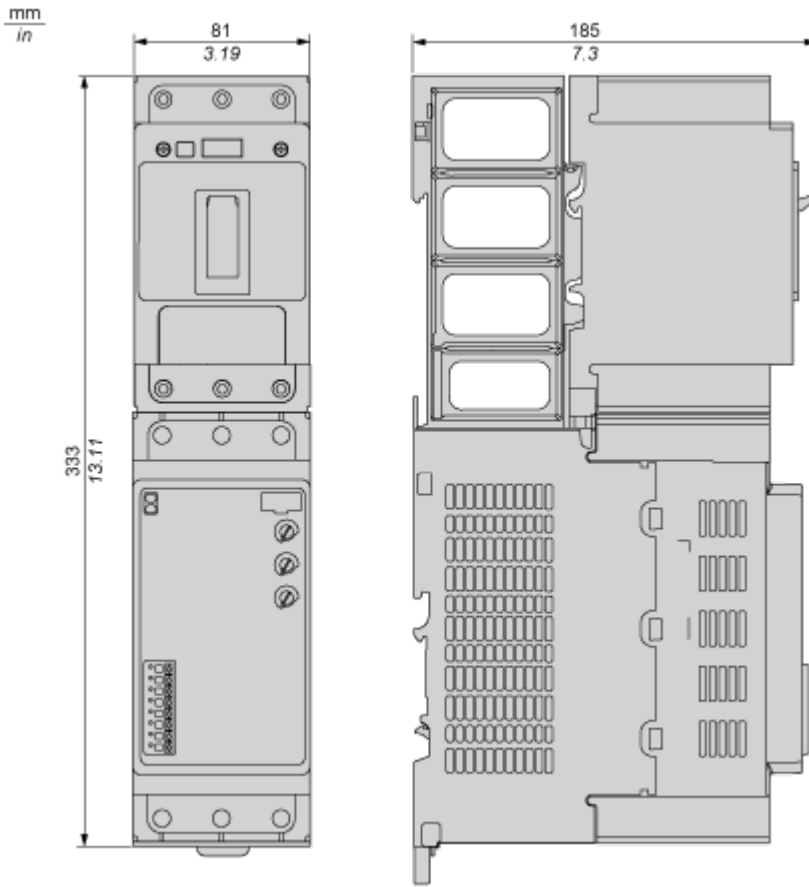
Dimensions

Soft Starter



Dimensions

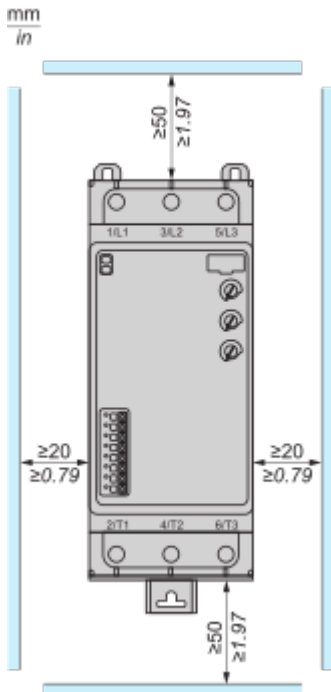
Soft Motor Starter



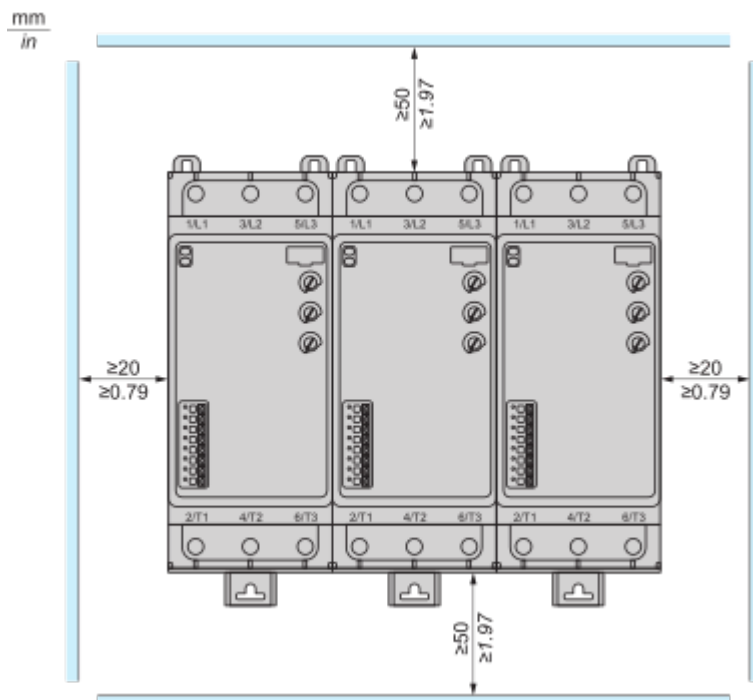
Mounting and Clearance

Mounting

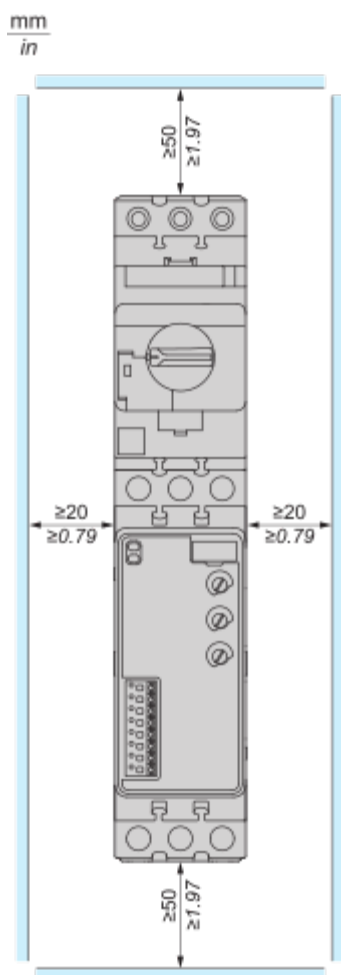
ATS130 Standalone



ATS130 Side by side

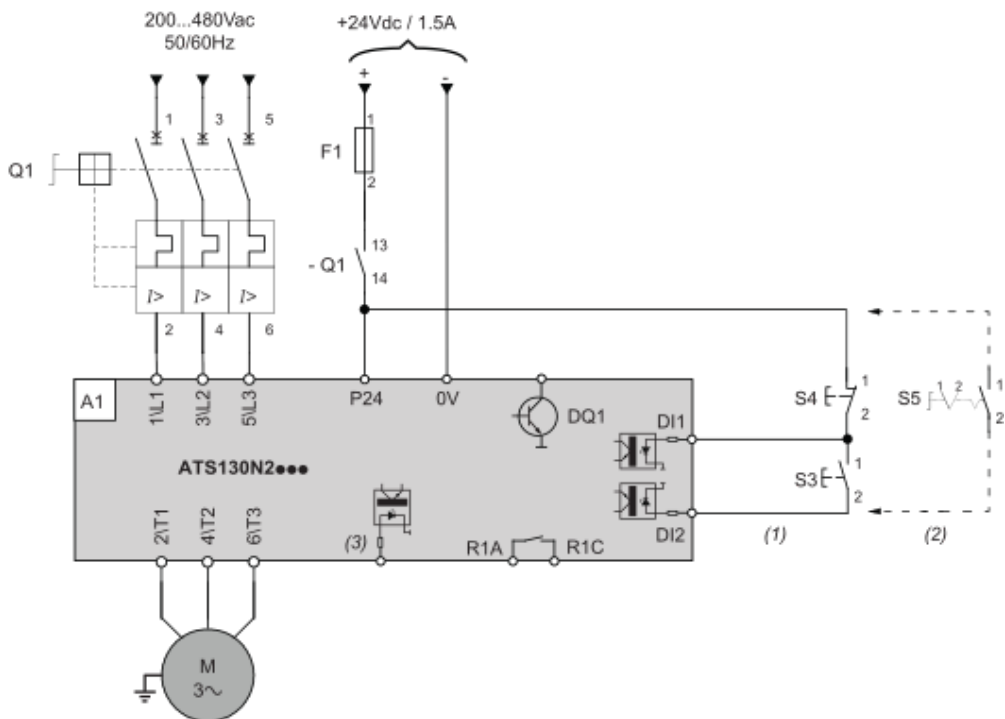


ATS130 Soft Motor Starter (ATS130 + TeSys Deca circuit breaker)



Connections and Schema

Wiring



NOTE: Set the potentiometer **Stop Time (s)** to 0 to get a freewheel.

- (1): 3-Wire control
- (2): 2-Wire control
- (3): BOOST

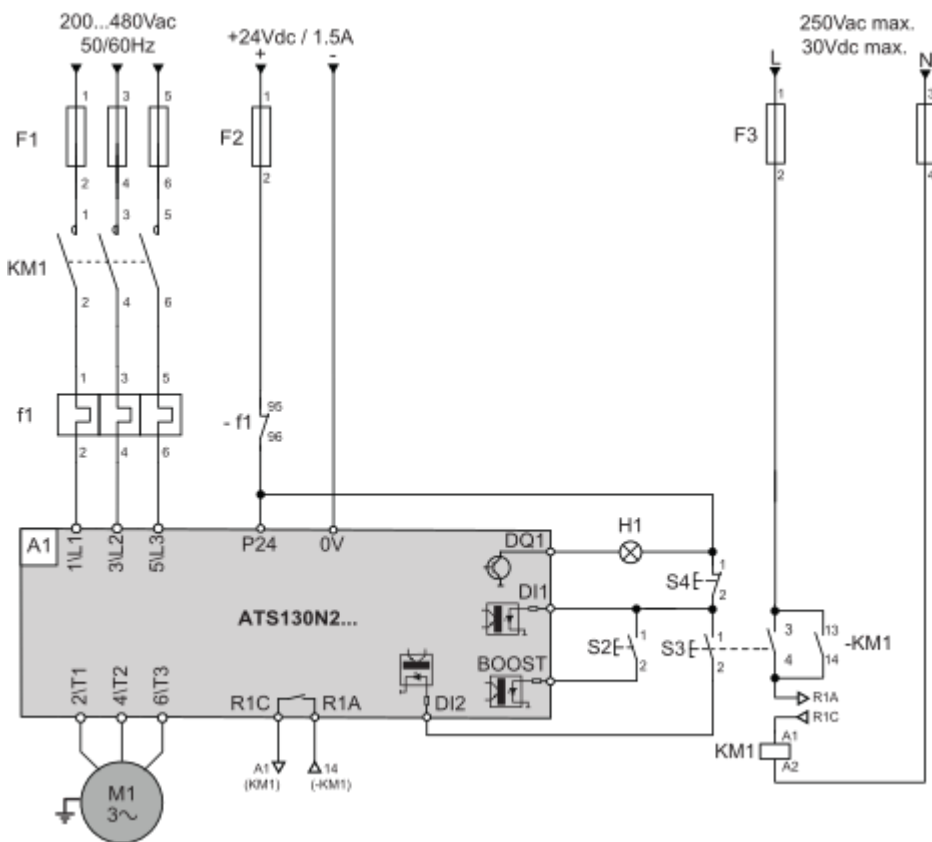
Designation Component

| | |
|-------------|---|
| Q1 | Circuit breaker |
| - Q1 | Auxiliary contact of the circuit breaker Q1 |
| F1 | Fuse |
| S3 | Normally open push-button |
| S4 | Normally closed push-button |
| S5 | Selector switch, 2 positions, normally open contact RUN/STOP command for 2-wire control |

Description

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|--|
| Thermal-magnetic motor circuit breaker |
| Normally open auxiliary contact |
| Short circuit protection of the 24Vdc control supply |
| RUN order |
| STOP order and freewheel or controlled stop |

Wiring



NOTE: Set the potentiometer **Stop Time (s)** to 0 to get a freewheel.

| Designation | Component | Description |
|-------------|---|--|
| F1 | Fuses | Short circuit protection device for the mains |
| KM1 | Contactor | Line contactor |
| -KM1 | Auxiliary contact of the contactor | Auxiliary contact of the contactor on the command part |
| f1 | Motor overload relay | Thermal protection device for the motor |
| - f1 | Auxiliary contact of the motor overload relay | Auxiliary contact of the motor overload relay F1 inserted in the control circuit |
| F2 | Fuse | Short circuit protection of the 24Vdc control supply |
| F3 | Fuses | Short circuit protection of the control supply |
| S2 | Normally open contact push-button. | RUN command for BOOST command |
| S3 | Normally open contact push-button. | RUN command for 3-wire control |
| S4 | Normally closed contact push-button | STOP command for 3-wire control |

| Designation | Component | Description |
|-------------|-----------|---------------------|
| H1 | Light | Presence of current |

Offer Marketing Illustration

Product benefits / Features

Technical Benefits
Altivar Soft Starter ATS130



Offer Marketing Illustration

Product benefits / Features

The image is a green graphic titled "Features Altivar Soft Starter ATS130". It features two black electrical components in the center. Surrounding them are six circular icons, each with a text label below it:

- Quick and easy installation:** Represented by a clock icon with a checkmark.
- Compact products and solutions:** Represented by an icon of two overlapping rectangles.
- Preventive maintenance free:** Represented by an icon of a hand holding a wrench.
- Easy product identification and support:** Represented by an icon of a smartphone with signal waves.
- Extended operation cycle:** Represented by a circular arrow icon.
- Flexibility:** Represented by a spring icon.

Image of product / Alternate images

Alternative



