Specifications





Soft starter, Altistart 480, 22A, 208 to 690V AC, control supply 110 to 230V AC

ATS480D22Y

Product availability: Stock - Normally stocked in distribution facility

Price*: 925.99 USD

Main

Range Of Product	Altivar Soft Starter ATS480	
Product Or Component Type	Soft starter	
Product Destination	Asynchronous motors	
Product Specific Application	Process and infrastructures	
Device Short Name	ATS480	
Phase	3 phase	
Utilisation Category	AC-3A AC-53A	
Ue Power Supply Voltage	208690 V - 1510 %	
Power Supply Frequency	5060 Hz - 2020 %	
[le] Rated Operational Current	Normal duty 22.0 A 104 °F (40 °C))	
Rated Current In Heavy Duty	17.0 A at 104 °F (40 °C) heavy duty	
Torque Control	True	
Ip Degree Of Protection	IP20	
Motor Power Kw	 5.5 kW 230 V in the motor supply line normal duty 4.0 kW 230 V in the motor supply line heavy duty 11.0 kW 400 V in the motor supply line normal duty 7.5 kW 400 V in the motor supply line heavy duty 11.0 kW 440 V in the motor supply line heavy duty 11.0 kW 440 V in the motor supply line heavy duty 11.0 kW 500 V in the motor supply line heavy duty 11.0 kW 500 V in the motor supply line heavy duty 11.0 kW 500 V in the motor supply line heavy duty 11.0 kW 500 V in the motor supply line heavy duty 11.0 kW 525 V in the motor supply line heavy duty 11.0 kW 660 V in the motor supply line heavy duty 15.0 kW 660 V in the motor supply line heavy duty 15.0 kW 630 V in the motor supply line heavy duty 15.0 kW 230 V to the motor supply line heavy duty 15.0 kW 230 V to the motor delta terminals normal duty 15.0 kW 400 V to the motor delta terminals normal duty 15.0 kW 400 V to the motor delta terminals normal duty 	
Maximum Horse Power Rating	5.0 hp 208 V normal duty 3.0 hp 208 V heavy duty 7.5 hp 230 V normal duty 5.0 hp 230 V heavy duty 15.0 hp 460 V normal duty 10.0 hp 460 V heavy duty 20.0 hp 575 V normal duty 15.0 hp 575 V heavy duty	

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

Communication module Profibus DP V1 Communication module PROFINET Communication module Modbus TCP/EtherNet/IP Communication module CANopen daisy chain Communication module CANopen Sub-D Communication module CANopen open style

Complementary	
Device Connection	In the motor supply line To the motor delta terminals
[Us] Control Circuit Voltage	110250 V AC 50/60 Hz - 1510 %
Apparent Power	0.06 kVA
Integrated Motor Overload Protection	True
Motor Thermal Protection Class	Class 10E
Protection Type	Phase failure line Integrated thermal protection motor Thermal protection starter Current overload motor Underload motor Excessive starting time, locked rotor motor Motor phase loss motor Line supply phase loss line Line supply phase loss motor Thermal protection motor
Current Limiting %In (5 X le Maximum)	150700 %
[In] Rated Current Pwr Loss Specifctn	22.0 A
Power Loss Static Current Independent	25.0 W
Power Loss Per Device Current Dependent	54.0 W
Standards	IEC 60947-4-2 UL 60947-4-2 IEC 60664-1
Product Certifications	CE cULus CCC UKCA RCM EAC DNV ABS BV CCS
Marking	CE CCC UKCA EAC RCM CULus
[Uc] Control Circuit Voltage	24 V DC
Discrete Input Number	4
Discrete Input Type	STOP) logic inputs, 3500 Ohm RUN) logic inputs, 3500 Ohm DI3) programmable as logic input, 3500 Ohm DI4) programmable as logic input, 3500 Ohm
Input Compatibility	STOP discrete input level 1 PLC IEC 61131-2 RUN discrete input level 1 PLC IEC 61131-2 DI3 discrete input level 1 PLC IEC 61131-2 DI4 discrete input level 1 PLC IEC 61131-2
Discrete Input Logic	Programmable digital input < 5 V

Relay Output Number	3	
Relay Output Type	Relay outputs R1A 1 NO	
	Relay outputs R1B 1 NO	
	Relay outputs RIC NO/NC programmable	
Minimum Switching Current	100 mA 12 V DC relay outputs	
Maximum Switching Current	Relay outputs 2 A 250 V AC	
	Relay outputs 2 A 30 V DC	
Discrete Output Number	2	
Discrete Output Type	DQ1) programmable digital output <= 30 V DQ2) programmable digital output <= 30 V	
Output Compatibility	Open collector level 1 PLC IEC 65A-68	
Analogue Input Number	1	
Analogue Input Type	AI1/PTC PTC/Pt 100 temperature probe PTC2 PTC/Pt 100 temperature probe PTC3 PTC/Pt 100 temperature probe	
Analogue Output Number	1	
Analogue Output Type	Current output AQ1 020 mA or 010 V 500 Ohm	
Communication Port Protocol	Modbus serial	
Connector Type	1 RJ45	
Communication Data Link	Serial	
Physical Interface	2-wire RS 485	
Transmission Rate	1200256000 bit/s	
Transmission Frame	RTU	
Data Format	8 bits, configurable odd, even or no parity	
Type Of Polarization	No impedance Modbus serial	
Number Of Addresses	0227 Modbus serial	
Method Of Access	Slave Modbus serial	
Function Available	External bypass control	
	Pre-heating	
	Smoke extraction	
	Multi-motor cascade Second motor set	
	User management	
	Ports and services hardening	
	Security event logging	
	Cybersecure firmware update	
	Single direction	
Display Screen Available	True	
Operating Position	Vertical +/- 10 degree	
Height	10.83 in (275.0 mm)	
Width	6.30 in (160.0 mm)	
Depth	7.99 in (203.0 mm)	
Net Weight	10.80 lb(US) (4.9 kg)	

Environment

Electromagnetic Compatibility	Conducted and radiated emissions level A IEC 60947-4-2 Conducted and radiated emissions with bypass level B IEC 60947-4-2 Damped oscillating waves level 3 IEC 61000-4-12 Electrostatic discharge level 3 IEC 61000-4-11 Immunity to electrical transients level 4 IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3 Voltage/current impulse level 3 IEC 61000-4-5	
Pollution Degree	Level 3	
[Uimp] Rated Impulse Withstand Voltage	6 KV	
[Ui] Rated Insulation Voltage	690 V	
Environmental Class (During Operation)	Class 3C3 according to IEC 60721-3-3 Class 3S2 according to IEC 60721-3-3	
Relative Humidity	095 % without condensation or dripping water IEC 60068-2-3	
Ambient Air Temperature For Operation	104140 °F (4060 °C) with current derating of 2 % per °C) 5104 °F (-1540 °C) without derating)	
Ambient Air Temperature For Storage	-13158 °F (-2570 °C)	
Operating Altitude	<= 3280.84 ft (1000 m) without derating > 3280.8413123.36 ft (> 10004000 m) with current derating 1 % per 100 m	
Maximum Deflection Under Vibratory Load (During Operation)	1.5 mm at 213 Hz	
Maximum Deflection Under Vibratory Load (During Storage)	1.75 mm at 29 Hz	
Maximum Deflection Under Vibratory Load (During Transport)	1.75 mm at 29 Hz	
Maximum Acceleration Under Vibrational Stress (During Operation)	10 m/s² at 13200 Hz	
Maximum Acceleration Under Vibratory Load (During Storage)	15 m/s² at 200500 Hz 10 m/s² at 9200 Hz	
Maximum Acceleration Under Vibratory Load (During Transport)	15 m/s² at 200500 Hz 10 m/s² at 9200 Hz	
Maximum Acceleration Under Shock Impact (During Operation)	150 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	

Ordering and shipping details

Category	US1CP1G22588
Discount Schedule	CP1G
Gtin	3606481089007
Returnability	Yes
Country Of Origin	FR
Packing Units	

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Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.81 in (30.000 cm)
Package 1 Width	11.02 in (28.000 cm)
Package 1 Length	14.57 in (37.000 cm)
Package 1 Weight	13.66 lb(US) (6.195 kg)
Unit Type Of Package 2	P06

Number Of Units In Package 2	8	
Package 2 Height	29.53 in (75.000 cm)	
Package 2 Width	23.62 in (60.000 cm)	
Package 2 Length	31.50 in (80.000 cm)	\ /
Package 2 Weight	137.79 lb(US) (62.500 kg)	

Sustainability Seren

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Resource performance

Upgraded Components Available

Well-being performance



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Rohs Exemption Information

Yes

Certifications & Standards

Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.		
Circularity Profile	End of Life Information		
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		

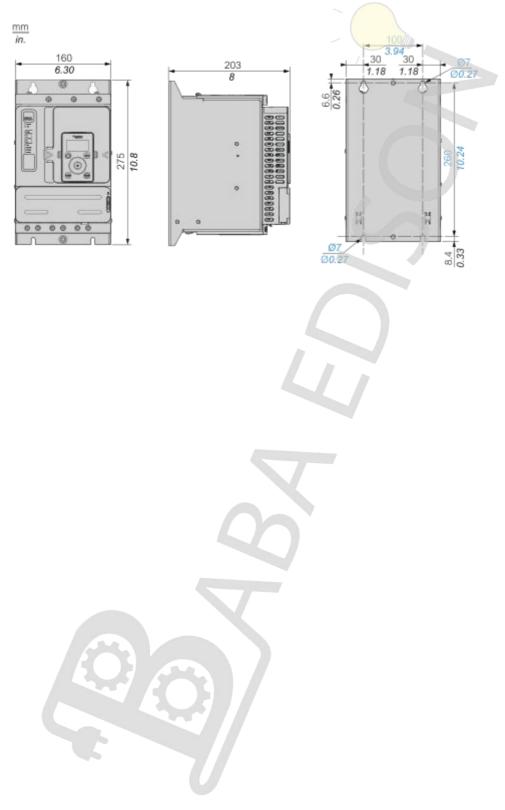
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Dimensions Drawings

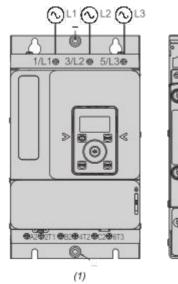
Dimensions

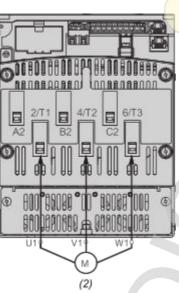
Front, Side and Rear View



Connections and Schema

Power Connections

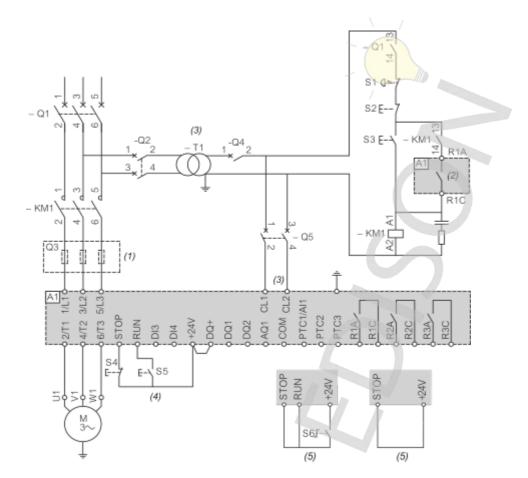




(1) : Mains side

(2) : Motor side

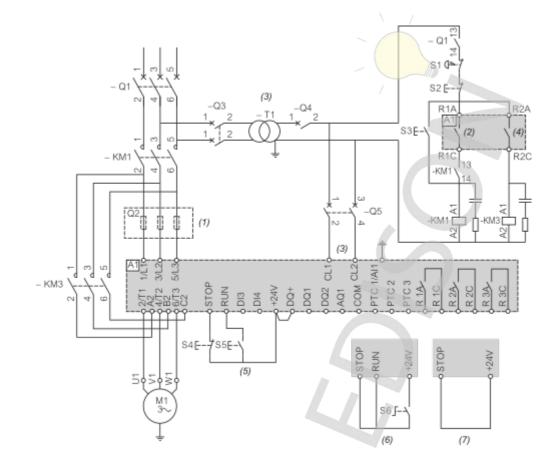
1/L1, 3/L2, 5/L3 : Mains supply inputs 2/T1, 4/T2, 6/T3 : Outputs to motor A2, B2, C2 : Soft starter bypass



Connection in line, with line contactor, no bypass, type 1 or 2 coordination, non - reversing, 2-wire or 3-wire control

- (1) : Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947-4-2.
- (2) : Take into account the electrical characteristics of the relays (Control Terminal Characteristics).
- (3) : The transformer must supply 110...230 VAC +10% 15%, 50/60Hz.
- (4) : RUN and STOP Management (3-wire control).
- (5) : RUN and STOP Management (2-wire control).

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Connection in line, with line and bypass contactor, freewheel or controlled stop, type 1 or 2 coordination, non reversing, 2-wire or 3-wire

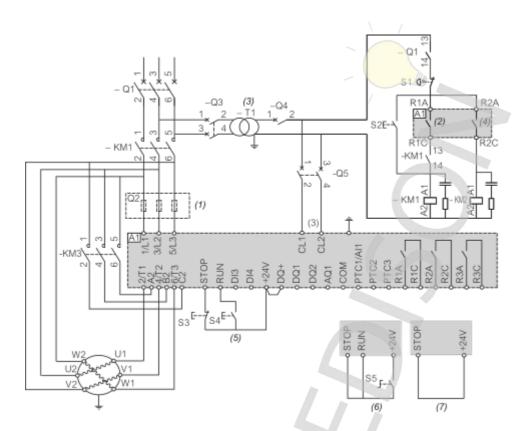
(1) : Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947-4-2.

(2) : Take into account the electrical characteristics of the relays (Control Terminal Characteristics).

(3) : The transformer must supply 110...230 VAC +10% - 15%, 50/60Hz.

(4) : Take into account the electrical characteristics of the relays, especially when connecting to high rating contactor (Control Terminal Characteristics).

- (5) : RUN and STOP Management (3-wire control).
- (6) : RUN and STOP Management (2-wire control).
- (7) : PC or PLC control



Connection inside the delta, with line and bypass contactor, type 1 and 2 coordination, non reversing, 2 wire or 3 wire

(1) : Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947-4-2.

(2): Take into account the electrical characteristics of the relays (Control Terminal Characteristics).

(3) : The transformer must supply 110...230 VAC +10% - 15%, 50/60Hz.

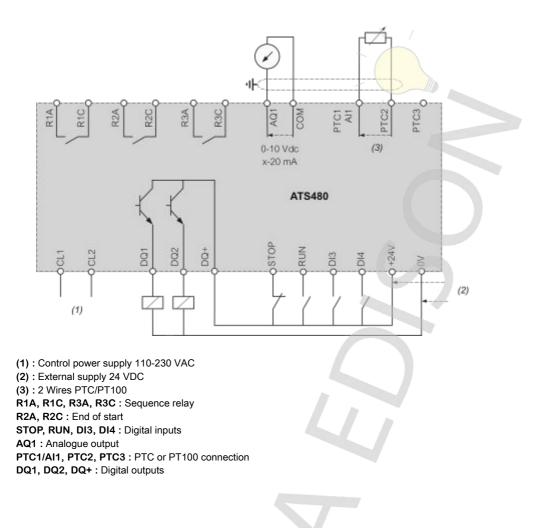
(4) : Take into account the electrical characteristics of the relays, especially when connecting to high rating contactor

(Control Terminal Characteristics).

- (5) : RUN and STOP Management (3-wire control).
- (6) : RUN and STOP Management (2-wire control).

(7) : PC or PLC control

Control block wiring diagram



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Mounting and Clearance

Mounting Position

