Specifications





Soft starter, Altistart 480, 660A, 208 to 690V AC, control supply 110 to 230V AC

ATS480C66Y

Product availability: Stock - Normally stocked in distribution facility

Price*: 7,939.99 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 %		
[Ie] Rated Operational Current	Normal duty 660.0 A 104 °F (40 °C))		
Rated Current In Heavy Duty	590.0 A at 104 °F (40 °C) heavy duty		
Torque Control	True		
Ip Degree Of Protection	IP00		
Motor Power Kw	160.0 kW 230 V in the motor supply line heavy duty 355.0 kW 400 V in the motor supply line heavy duty 315.0 kW 400 V in the motor supply line heavy duty 400.0 kW 440 V in the motor supply line hoavy duty 400.0 kW 500 V in the motor supply line heavy duty 400.0 kW 525 V in the motor supply line heavy duty 630.0 kW 660 V in the motor supply line heavy duty 630.0 kW 660 V in the motor supply line heavy duty 630.0 kW 660 V in the motor supply line heavy duty 560.0 kW 690 V in the motor supply line heavy duty 560.0 kW 690 V in the motor supply line heavy duty 315.0 kW 230 V to the motor delta terminals normal duty 500.0 kW 400 V to the motor delta terminals normal duty 400.0 kW 400 V to the motor delta terminals heavy duty		
Maximum Horse Power Rating	200.0 hp 208 V normal duty 250.0 hp 230 V normal duty 200.0 hp 230 V heavy duty 500.0 hp 460 V normal duty 400.0 hp 460 V heavy duty 600.0 hp 575 V normal duty 500.0 hp 575 V heavy duty		
Option Card	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		

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

Complementary

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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	0.125 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	660.0 A
Power Loss Static Current Independent	25.0 W
Power Loss Per Device Current Dependent	1938.0 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 Relay outputs		
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	26.38 in (670.0 mm)		
Width	15.75 in (400.0 mm)		
Depth	12.36 in (314.0 mm)		
Net Weight	113.32 lb(US) (51.4 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 6 kV Voltage

[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			

Ordering and shipping details

Category	US1CP1G22588	
Discount Schedule	CP1G	
Gtin	3606481089168	
Returnability	Yes	
Country Of Origin	FR	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	21.65 in (55.0 cm)
Package 1 Width	20.87 in (53.0 cm)
Package 1 Length	31.89 in (81.0 cm)
Package 1 Weight	138.89 lb(US) (63.0 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



FQ

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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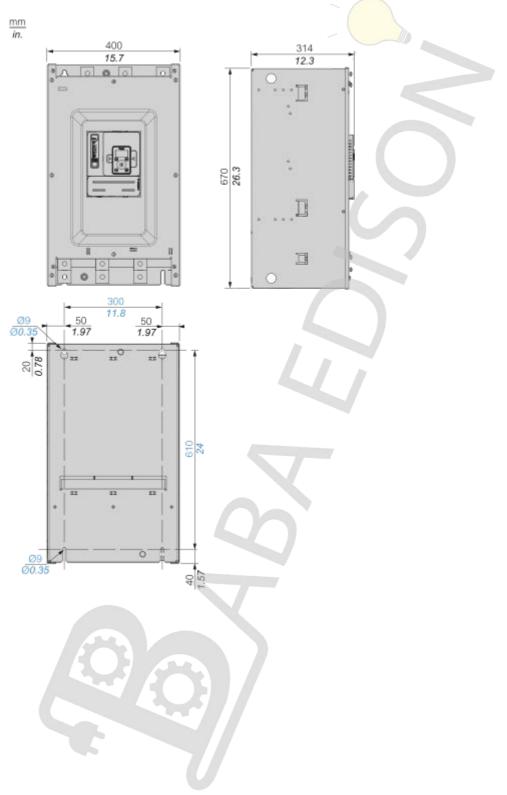
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Dimensions Drawings

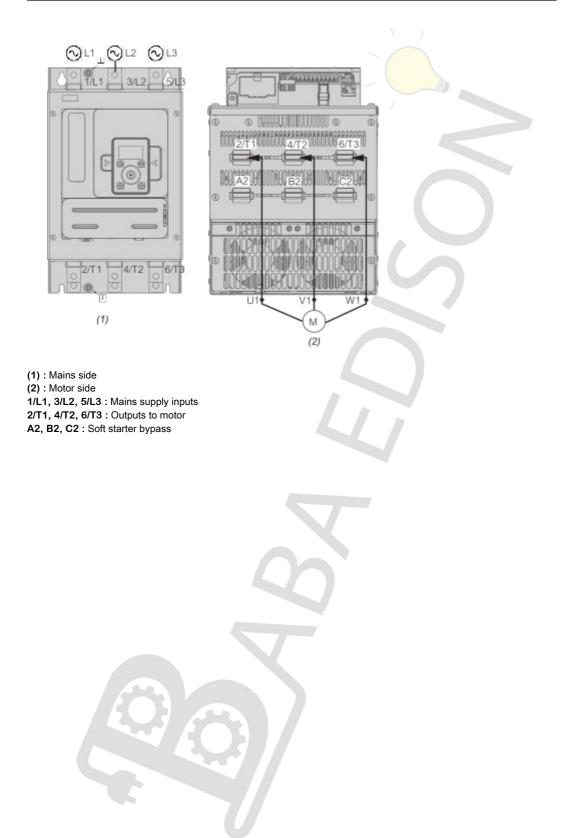
Dimensions

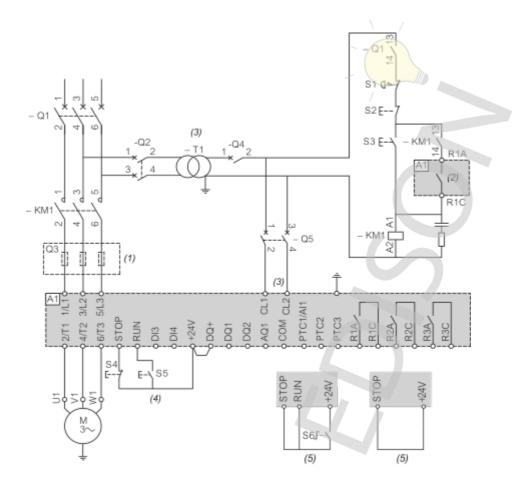




Connections and Schema

Power Connections





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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Q S10 Q S2 E (3) -Q3 Q4 R1A R2A Τ1 S3E-(4) (2)10 – KM1 R10 R2C 13 -KM1 -05 1 Mi (1)E N Þ. (3) ú PTC 1/AI1 5 – KM3 STOP DQ2 ö R 10 R 20 R 30 MOC 2 1 A R 2A R 3A RUN AQ1 ğ g 10 S4E 'S5E STOP d0. RUN +24V (5) 5 5 Ż M1 S6 J 3 (6) (7)

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

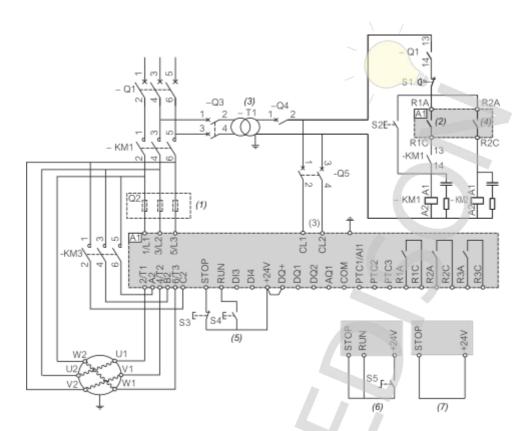
(1) : Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947-4-2.

(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.

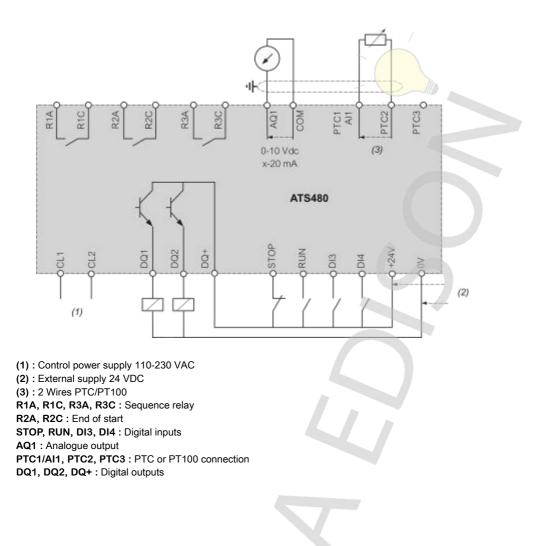
(4) : Take into account the electrical characteristics of the relays, especially when connecting to high rating contactor

(Control Terminal Characteristics).

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

(7) : PC or PLC control

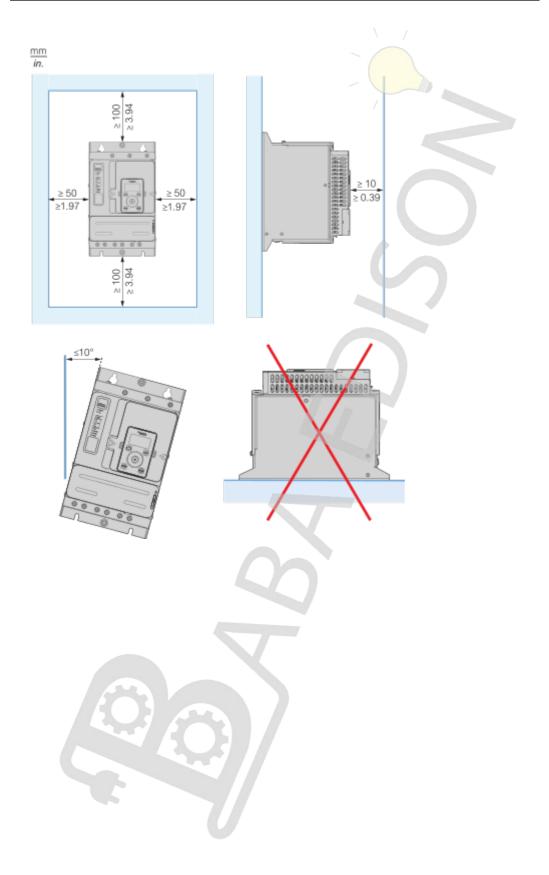
Control block wiring diagram



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Mounting and Clearance

Mounting Position





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