## ATS480C21Y

Torque control

IP Degree of Protection

Altivar Soft Starter ATS480, 210 A, 208...690V AC, control supply 110...230V AC





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 210.0 A 104 °F (40 °C))
Rated current in heavy duty	170.0 A at 104 °F (40 °C) heavy duty

True IP00

Motor power kW	55.0 KW 230 V in the motor supply line normal duty 45.0 KW 230 V in the motor supply line heavy duty 110.0 KW 400 V in the motor supply line normal duty
	90.0 KW 400 V in the motor supply line heavy duty
	110.0 KW 440 V in the motor supply line normal duty
	90.0 KW 440 V in the motor supply line heavy duty
	132.0 KW 500 V in the motor supply line normal
	duty
	110.0 KW 500 V in the motor supply line heavy duty
	132.0 KW 525 V in the motor supply line normal duty
	110.0 KW 525 V in the motor supply line heavy duty
	160.0 KW 660 V in the motor supply line normal duty
	132.0 KW 660 V in the motor supply line heavy duty
	200.0 KW 690 V in the motor supply line normal
	200.0 KW 690 V III the motor supply line normal

$160.0\ KW\ 690\ V$ in the motor supply line heavy duty $110.0\ KW\ 230\ V$ to the motor delta terminals normal
duty 90.0 KW 230 V to the motor delta terminals heavy

duty

160.0 KW 400 V to the motor delta terminals normal duty

132.0 kW 400 V to the motor delta terminals heavy

	duty
Maximum Horse Power	60.0 Hp 208 V normal duty
Rating	50.0 Hp 208 V heavy duty
	75.0 Hp 230 V normal duty
	60.0 Hp 230 V heavy duty
	150.0 Hp 460 V normal duty
	125.0 Hp 460 V heavy duty
	200.0 Hp 575 V normal duty
	150.0 hp 575 V heavy duty
Onting	Communication module Deathur DD V4

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

#### Complementary

In the motor supply line To the motor delta terminals
110230 V AC 50/60 Hz - 1510 %
0.106 kVA
True
Class 10E
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
150700 %
210.0 A
25.0 W
560.0 W
EN/IEC 60947-4-2 UL 60947-4-2 IEC 60664-1
CE CULus CCC UKCA RCM EAC DNV ABS BV CCS
CE CCC UKCA EAC RCM CULus
24 V DC
4
STOP) logic inputs, 3500 Ohm RUN) logic inputs, 3500 Ohm DI3) programmable as logic input, 3500 Ohm DI4) programmable as logic input, 3500 Ohm
STOP discrete input level 1 PLC EN/IEC 61131-2 RUN discrete input level 1 PLC EN/IEC 61131-2 DI3 discrete input level 1 PLC EN/IEC 61131-2 DI4 discrete input level 1 PLC EN/IEC 61131-2
Programmable digital input < 5 V
3
Relay outputs R1A 1 NO Relay outputs R1B 1 NO Relay outputs RIC NO/NC programmable
10 mA 24 V DC relay outputs
Relay outputs 2 A 250 V AC Relay outputs 2 A 30 V DC Relay outputs
2
DQ1) programmable digital output <= 30 V DQ2) programmable digital output <= 30 V
Open collector level 1 PLC IEC 65A-68
1
Al1/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	14.96 in (380.0 mm)	
Width	12.60 in (320.0 mm)	
Depth	10.91 in (277.0 mm)	
Net Weight	40.12 lb(US) (18.2 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 EN/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

aximum acceleration under shock load (during orage)	100 m/s² at 11 ms	
aximum acceleration under shock load (during ansport)	100 m/s² at 11 ms	

### Ordering and shipping details

Category	22588-OPEN ATS480 ALTISTART
Discount Schedule	CP1G
GTIN	3606481089106
Returnability	Yes
Country of origin	ID

#### Packing Units

PCE
1
19.69 in (50.000 cm)
15.75 in (40.000 cm)
23.62 in (60.000 cm)
58.42 lb(US) (26.500 kg)

#### Offer Sustainability

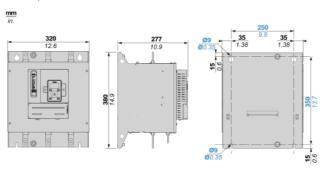
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EPEU RoHS  Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	₽¥Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Upgradeability	Upgraded components available

# Product data sheet Dimensions Drawings

# ATS480C21Y

#### **Dimensions**

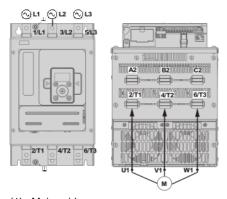
#### Front, Side and Rear View



# Product data sheet Connections and Schema

### ATS480C21Y

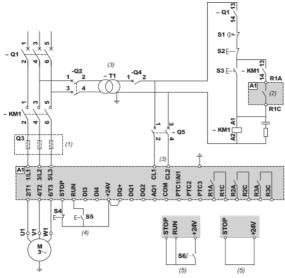
#### **Power Connections**



(1): Mains side(2): Motor side

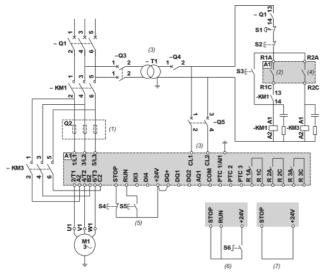
1/L1, 3/L2, 5/L3: Mains supply inputs 2/T1, 4/T2, 6/T3: Outputs to motor A2, B2, C2: Soft starter bypass

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



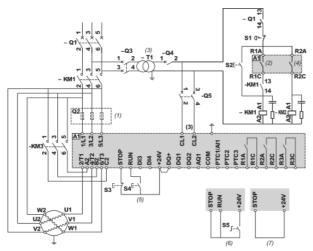
- (1): Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947–4–2.
- (2): Take into account the electrical characteristics of the relays (Control Terminal Characteristics).
- (3) : The transformer must supply 110...230 VAC +10% 15%, 50/60Hz.
- (4): RUN and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

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



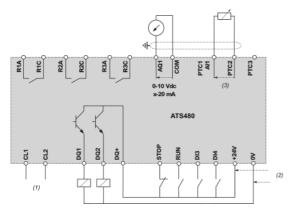
- (1): Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947-4-2.
- (2): Take into account the electrical characteristics of the relays (Control Terminal Characteristics).
- (3): The transformer must supply 110...230 VAC +10% 15%, 50/60Hz.
- (4): Take into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



(1): Control power supply 110-230 VAC

(2) : External supply 24 VDC

(3): 2 Wires PTC/PT100

R1A, R1C, R3A, R3C : Sequence relay

R2A, R2C : End of start

STOP, RUN, DI3, DI4 : Digital inputs

AQ1 : Analogue output

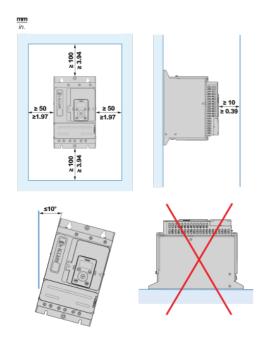
PTC1/Al1, PTC2, PTC3: PTC or PT100 connection

DQ1, DQ2, DQ+ : Digital outputs

# Product data sheet Mounting and Clearance

# ATS480C21Y

#### **Mounting Position**



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R88D1SN08HECT R88ACR1A003CFRA K6CMISZBI52 KLC35BE R88A-CA1A010B ST10-IP-EE ST10-Q-RN 103H7121-0410P

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1SFA897103R7000 1SFA897102R7000 3AUA0000058190 68581974 68581796 MCD 201-007-T4-CV1 3AUA0000039627

3AXD50000031889 ATS22D17Q 3AXD50000716630 3AUA0000058169 ATV610U55N4 ATV310H075N4E