




Reduce mechanical stress on your machines

Altistart™ 01
Altivar™ ATS130 
Altistart™ 22
Altivar™ Soft Starter ATS480

Complete range of soft starters from 0.37 kW (3 Amps)
to 900 kW (1200 Amps)



Altivar™ Soft Starters: 3 ranges to match your applications

 Small and Simple	 Compact design for normal duty applications	 Digitally integrated for heavy duty and normal duty applications
ATS01	ATS22	ATS480

 <p>Process and infrastructures</p>	 <p>Standard industrial Machines</p>	 <p>Simple machines and HVAC</p>
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Main data on Altivar™ Soft Starters



Us rated operational voltage	208 to 690V	230 to 440V 208 to 600V	110 to 480V single phase 110 to 480V 3 phase
Rated operational current	17 to 1200A	17 to 590A	3 to 12A (1 ph) –6 to 32A (3ph)
Power range	4 to 900kW	4 to 400kW	0,37 to 15kW
UcControl supply voltage	110 to 230Vac	110 to 230Vac	24V AC/DC 110-240Vac
Connectivity	Modbus, Modbus TCP, EtherNet/IP, Profinet, Profibus DP, CANopen	Modbus	-
Type of control	Torque Control, voltage control	Voltage control	Voltage ramp
Current limitation	500% Ie (up to 700% rated motor current)	350% Ie	-
Stop mode	Torque ramp, voltage ramp, dynamic braking, DC injection	Freewheel, voltage ramp	Freewheel, voltage ramp
Thermal protections Other protections	Electronic, PTC, PT100 2 or 3 wires Underload, overload, motor phase loss, line phase inversion excessive acceleration time, current overload, ground leakage	Electronic Underload, overload, motor phase loss, line phase inversion excessive acceleration time, current overload, ground leakage	-

Soft Starter

ATS01 – Soft Starter for Simple Machine



[Us] Rated Supply Voltage	Network Number of Phases	Motor Power kW	Starting Time	[Ie] Rated Operational Current (A)	Reference	Unit MRP [₹]
380....415V 50.....60Hz	3	1.5kW/2.2kW/3kW	adjustable from 1 to 10s	6	ATS01N206QN	On Request
	3	4kW	adjustable from 1 to 10s	9	ATS01N209QN	On Request
	3	5.5kW	adjustable from 1 to 10s	12	ATS01N212QN	On Request
	3	7.5kW/11kW	adjustable from 1 to 10s	22	ATS01N222QN	On Request
	3	15kW	adjustable from 1 to 10s	32	ATS01N232QN	On Request

**ATS130 - Power Extension of
ATS01 from 38 Amp to 105 Amp**

Coming Soon



- ATS130 Soft motor Starter solution, an alternative to DOL motor Starter for control panel flexibility
- Increase the competitiveness of customer design
 - Reduce space in cabinet
 - Save time during installation
 - Easy commissioning
- No preventive maintenance

Nominal Power in kW			Nominal Current (Amps)	Reference	Unit MRP [₹]
230 Vac	400 Vac	440 Vac			
11	18.5	22	38	ATS130N2D38LT	On Request
11	22	22	45	ATS130N2D45LT	On Request
18.5	30	37	65	ATS130N2D65LT	On Request
22	37	45	73	ATS130N2D73LT	On Request
22	45	45	80	ATS130N2D80LT	On Request
30	55	55	105	ATS130N2C11LT	On Request

ATS22 - Soft Starter for Utilities (Pump & fan)



- Embedded shorting contactor
- Size reduction: average of 25% less compare to ATS48 alone (without additional by-pass)
- Full starter and motor protections
- True three phases control
- Modbus in Built

kW (400 V)	Nominal Current (Amps)	Reference	Unit MRP [₹]
Three phase-Supply Voltage: 230V...440V			
7.5	17	ATS22D17Q	On Request
15	32	ATS22D32Q	On Request
22	47	ATS22D47Q	On Request
30	62	ATS22D62Q	On Request
37	75	ATS22D75Q	On Request
45	88	ATS22D88Q	On Request
55	110	ATS22C11Q	On Request
75	140	ATS22C14Q	On Request
90	170	ATS22C17Q	On Request
110	210	ATS22C21Q	On Request
132	250	ATS22C25Q	On Request
160	320	ATS22C32Q	On Request
220	410	ATS22C41Q	On Request
250	480	ATS22C48Q	On Request
315	590	ATS22C59Q	On Request

Please contact Customer Care Center for Stockable and Non stockable status of references.

NORMAL STOCK ITEMS

W.E.F. January 17th, 2024

Altivar™ Soft Starter ATS480



The Altivar™ Soft Starter ATS480 is the next evolution of soft starters for digitization, while meeting cybersecurity standard. Designed to address process and infrastructures, ATS480 simplifies projects execution and maximizes the availability of your applications, even in the most demanding environments.

ATS480 builds on the proven robustness and stop/ starting performance of the ATS48.

ATS480 extends the lifetime of ATS48 equipment and preserves your initial investment by reusing current design.

Benefits

Reduced engineering time and cost

- The integration of Altivar Soft Starter ATS480 in EcoStruxure™ Apps and software for Automation and Power drastically simplify architecture selection, detailed design and execution.

Reliability for your operations

- Highly robust and reliable even for the most demanding applications or in harsh environments
- Flexibility to improve the continuity of service of your applications

Cybersecure

- User account management to enforce authorization
- ATS480 has enhance cybersecurity features built-in to restrict or disable port and services
- Threat intelligence to generate security related reports
- Secure boot and firmware upgrade

Complete solution for Process & Infrastructures projects



Only 1 range 208/690 V from 4 to 900kW



Options and accessories common to Altivar™

Altivar™ Soft Starter ATS480 characteristics	
Us Rated operational voltage	208 to 690V
Ie rated operational current	17 to 1700A
Pe Power range	4 to 900kW
Application type	Normal and heavy duty
Control Type	Torque control, the original
Current limitation	500% Ie up to 700% motor In
Stop mode	Torque ramp, dynamic braking, DC injection
Motor thermal protection	Embedded electronic thermal relay, PTC, PT100
Connectivity	Modbus serial (embedded)
	Modbus TCP
	EtherNet/IP PROFINET PROFIBUS DP CANopen
Markings and Certifications	CE, c.UL.us, CCC, EAC, RCM, UKCA, DNV ABS, BV CCS

Soft Starter Selection

Refer to the following table to select ATS480 compatible with the ATS48 to substitute.

Legacy offers			New offers
ATS48●●●Q 230...415 Vac	ATS48●●●Y 208...690 Vac		ATS480●●●Y 208...690 Vac
ATS48D17Q	ATS48D17Y		ATS480D17Y
ATS48D22Q	ATS48D22Y		ATS480D22Y
ATS48D32Q	ATS48D32Y		ATS480D32Y
ATS48D38Q	ATS48D38Y		ATS480D38Y
ATS48D47Q	ATS48D47Y		ATS480D47Y
ATS48D62Q	ATS48D62Y		ATS480D62Y
ATS48D75Q	ATS48D75Y		ATS480D75Y
ATS48D88Q	ATS48D88Y		ATS480D88Y
ATS48C11Q	ATS48C11Y		ATS480C11Y
ATS48C14Q	ATS48C14Y	→	ATS480C14Y
ATS48C17Q	ATS48C17Y		ATS480C17Y
ATS48C21Q	ATS48C21Y		ATS480C21Y
ATS48C25Q	ATS48C25Y		ATS480C25Y
ATS48C32Q	ATS48C32Y		ATS480C32Y
ATS48C41Q	ATS48C41Y		ATS480C41Y
ATS48C48Q	ATS48C48Y		ATS480C48Y
ATS48C59Q	ATS48C59Y		ATS480C59Y
ATS48C66Q	ATS48C66Y		ATS480C66Y
ATS48C79Q	ATS48C79Y		ATS480C79Y
ATS48M10Q	ATS48M10Y		ATS480M10Y
ATS48M12Q	ATS48M12Y		ATS480M12Y

The specific legacy references and their functionality are included in the substitution:

Specific Legacy offers		New offers
ATS48●●●YS316, ability to set in Delta up to 500 V		
ATS48●●●YS338, tropicalization coating	→	ATS480●●●Y
ATS48●●●QS338, tropicalization coating		

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Green Premium™

Enhance sustainability with Altivar™ Soft Starter ATS480

Superior environmental performance thanks to upgradability and modernization solutions

Altivar™ Soft Starter ATS480 is RoHS and REACH compliant

- Transparent environment information
- Life Cycle Analysis, compliant with ISO 14025
- Circularity Profile

Altivar™ Soft Starter ATS480 brings key benefits to help you achieve superior upgradable performance by enhancing its embedded functionality and performance capabilities for both hardware and software. ATS480 also extends the service life of ATS48 equipment: ATS480 replaces ATS48 while keeping the same footprint, circuit breaker, contactors, cables, and behavior of the process, making way for evolution.

The additional power options and the cybersecurity-compliant firmware upgradability capabilities of the Altivar™ Soft Starter ATS480 can help you to maximize process continuity and operation, as well as reduce your operational expenses, by avoiding the need to replace your soft starter or modify your existing installation as a retrofit.

Benefits

- Enable a secure and digital area
- Reduce your engineering time and cost
- Help to secure your operations
- Reduce downtime
- Extend the service life of ATS48 equipment
- Make way for evolution
- Preserve your initial investment



Communication and Wi-Fi modules

The additional communication modules allow you to easily integrate Altivar™ Soft Starter ATS480 in your scalable automation system. Together with the Wi-Fi access point, they bring easy access to the real data provided by the soft starter, aiding its digitization and easy integration in Industry 4.0 technologies.

Cybersecurity-compliant firmware upgrade

You have the possibility to upgrade the Altivar™ Soft Starter ATS480 firmware. Available on se.com, the firmware is digitally signed and can only be applied if authenticity is verified by the ATS480.

Graphic display terminal and dynamic QR code

In addition to the detailed warnings and detected errors available on the removable plain text display terminal, the graphic display terminal provides contextual troubleshooting and direct access to the appropriate page of the documentation via a dynamic QR code.

Power options (line chokes, bypass contactor)

The power options of Altivar™ Soft Starter ATS480 bring you the possibility to improve the power quality and efficiency of your installation. These options also improve the continuity of service of the installation and its robustness.



Experience our offer on se.com/green-premium



Product selector for ATS480



EcoStruxure™ Motor Control Configurator



EcoStruxure™ Motor Management Design

Altistart™ 480

ATS480 in-line								
Motor nameplate								ATS480
Rated operational voltage (Ue)								
Rated motor power								
230 V	400 V	440 V	500 V	525 V	660 V	690 V		
kW	kW	kW	kW	kW	kW	kW	Reference	Unit MRP [₹]
Normal duty applications								
4	7.5	7.5	9	9	11	15	ATS480D17Y	On Request
5.5	11	11	11	11	15	18.5	ATS480D22Y	On Request
7.5	15	15	18.5	18.5	22	22	ATS480D32Y	On Request
9	18.5	18.5	22	22	30	30	ATS480D38Y	On Request
11	22	22	30	30	37	37	ATS480D47Y	On Request
15	30	30	37	37	45	45	ATS480D62Y	On Request
18.5	37	37	45	45	55	55	ATS480D75Y	On Request
22	45	45	55	55	75	75	ATS480D88Y	On Request
30	55	55	75	75	90	90	ATS480C11Y	On Request
37	75	75	90	90	110	110	ATS480C14Y	On Request
45	90	90	110	110	132	160	ATS480C17Y	On Request
55	110	110	132	132	160	200	ATS480C21Y	On Request
75	132	132	160	160	220	250	ATS480C25Y	On Request
90	160	160	220	220	250	315	ATS480C32Y	On Request
110	220	220	250	250	355	400	ATS480C41Y	On Request
132	250	250	315	315	400	500	ATS480C48Y	On Request
160	315	355	400	400	560	560	ATS480C59Y	On Request
–	355	400	–	–	630	630	ATS480C66Y	On Request
220	400	500	500	500	710	710	ATS480C79Y	On Request
250	500	630	630	630	900	900	ATS480M10Y	On Request
355	630	710	800	800	–	–	ATS480M12Y	On Request
Heavy duty applications								
3	5.5	5.5	7.5	7.5	9	11	ATS480D17Y	On Request
4	7.5	7.5	9	9	11	15	ATS480D22Y	On Request
5.5	11	11	11	11	15	18.5	ATS480D32Y	On Request
7.5	15	15	18.5	18.5	22	22	ATS480D38Y	On Request
9	18.5	18.5	22	22	30	30	ATS480D47Y	On Request
11	22	22	30	30	37	37	ATS480D62Y	On Request
15	30	30	37	37	45	45	ATS480D75Y	On Request
18.5	37	37	45	45	55	55	ATS480D88Y	On Request
22	45	45	55	55	75	75	ATS480C11Y	On Request
30	55	55	75	75	90	90	ATS480C14Y	On Request
37	75	75	90	90	110	110	ATS480C17Y	On Request
45	90	90	110	110	132	160	ATS480C21Y	On Request
55	110	110	132	132	160	200	ATS480C25Y	On Request
75	132	132	160	160	220	250	ATS480C32Y	On Request
90	160	160	220	220	250	315	ATS480C41Y	On Request
110	220	220	250	250	355	400	ATS480C48Y	On Request
132	250	250	315	315	400	500	ATS480C59Y	On Request
160	315	355	400	400	560	560	ATS480C66Y	On Request
–	355	400	–	–	630	630	ATS480C79Y	On Request
220	400	500	500	500	710	710	ATS480M10Y	On Request
250	500	630	630	630	900	900	ATS480M12Y	On Request

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