



Product designation	Soft Starter		
Product type designation	ADX		
Motor type	Asynchronous three phase		
<b>Electrical features</b>			
Supplies voltage	Type of system	Three phase	
	Rated supply voltage	V	208...415VAC
	auxiliary supply voltage (Us)		208...240VAC
	Rated frequency	Hz	50/60
Rated starter current Ie		A	310
Rated motor power	IEC ratings (T≤40°C)		
	230VAC	kW	90
	400VAC	kW	160
	500VAC	KW	200
	UL ratings (T≤40°C)		
	220-240VAC	HP	100
	380-415VAC	HP	150
	440-480VAC	HP	250
Number of controlled phases		Nr.	3
Built-in bypass	No, predisposed for external bypass contactor		
Cooling System	Forced		
<b>Programming interface</b>			
Display	Backlit LCD 2x16 character		
Programming with NFC technology	No		
Optical port	No		
<b>Startup and stop settings</b>			
Startup method	Torque or voltage ramp with current limitation		
Stop method	Torque ramp, voltage ramp, free-wheel stop		
Braking method	DC dynamic with external relay		
<b>Protections</b>			
Auxiliary supply protection	Voltage too low		

Power supply Protection	No power, phase loss, phase sequence, frequency out of limits, minimum and maximum voltage
Motor protection	Overload at starting (trip class 2, 10A, 10, 15, 20, 25, 30, 35 and 40), overload during running (trip class 2, 10A, 10, 15, 20, 25 and 30), locked rotor, current asymmetry, minimum torque (dry run), overtemperature , starting too long
Starter protection	Overcurrent, overtemperature, bypass failure, phase shorted, temperature sensor fault, maintenance request

Functions	
Built-in bypass	No
Built-in display and keypad	No
Languages	4
View measurements	Yes
Torque control	Yes
Adjustable current limit	Yes
Dynamic braking	Yes
Kick Start function	Yes
Motor overload electronic protection	Yes
Motor protection PTC input	Yes
Protection against phase loss	Yes
Protection against phase inversion	Yes
Protection against locked rotor	Yes
Protection against thyristor overtemperature	Yes
Protection against low load	Yes
Programmable alarm	Yes
Digital inputs	3
Analog inputs	1
Digital outputs	4
Analog output	1
Monitoring communication	Yes
Optical port for programming	No
Event log	No
Motor hour counter	Yes

Startup counter		Yes
Clock calendar		Yes
Remote external keypad		Yes
<b>Input and Output</b>		
<b>Digital inputs</b>		
	Number of digital input	Nr. 3 (2 digital inputs + 1 digital/analog input)
	Digital input type	24VDC (no need for external feeder) 1 input for start, 1 input programmable (stop, free-wheel stopping, external alarm, motor preheat, local control, alarms inhibit, manual resetting of motor thermal protection, keypad lock, second motor), 1 input programmable multifunction (OFF, free-wheel stopping, external alarm, motor preheat, local control, alarms inhibit, manual resetting of motor thermal protection, keypad lock, second motor, cascade starting, 0-10V ramp, 2-10V ramp, 0-10V start-stop, PT100 start-stop, PTC protection)
	Digital input functions	
<b>Analog inputs</b>		
	Number of analog input	Nr. 1 (digital/analog)
	Analog input type	0-10VDC (0-20mA with external resistor 500Ω)

	Analog input functions		Motor protection via PTC probes, acceleration and/or deceleration ramp via analog input, analog input thresholds for motor starting and stopping, analog input thresholds for programmable relay enable and disable, PT100 input thresholds for motor starting and stopping and PT100 input thresholds for programmable relay enable and disable
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Digital outputs	Number of digital output	Nr.	4
	Digital output arrangement		3 x 1 NO (SPST) + 1 C/O (SPDT) Ratings: 5A 250VAC AC1, 2A 250VAC AC15 C/O output for global alarm, 3 x 1NO outputs programmable (OFF, motor powered, up to speed, braking, current limit, service required, cascade starting, programmable input thresholds, alarm Axx)
	Digital output functions		
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Analog outputs	Number of analog output	Nr.	1
	Analog output type		0...20mA, 4...20mA (0...10V with external resistor 500Ω) Current, torque, motor thermal status, power factor and active power
	Analog output functions		

**Ambient conditions**

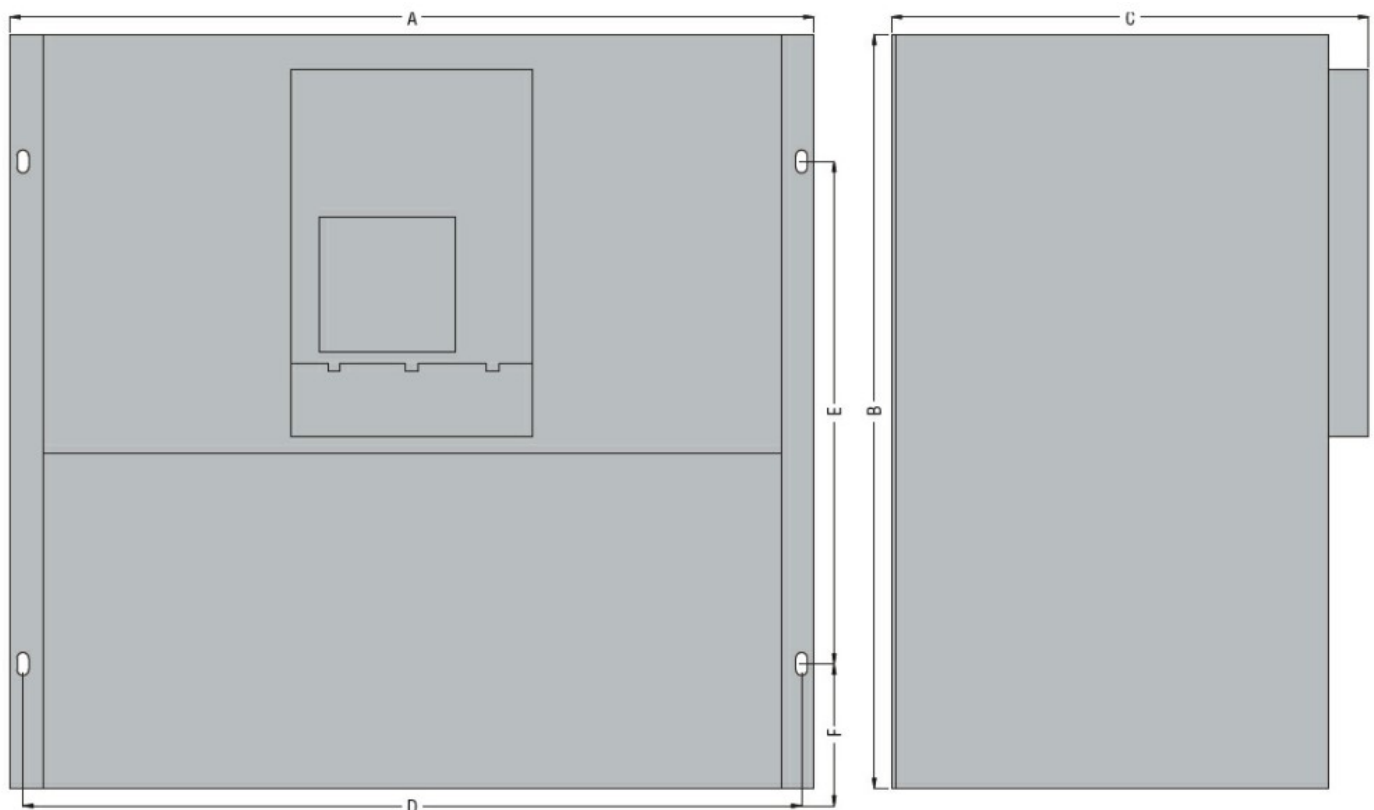
Temperature

Operating temperature

min °C -10

	max	°C	+55°C (with current derating >45°C of 1.5%/°C)
Storage temperature	min max	°C °C	-30 +70
Max altitude		m	1000 without derating (over 1000mt with current derating of 0.5%/100m)
Relative humidity		%	95% without condensation or dripping
Pollution degree			3
<b>Housing</b>			
Mounting			Screw-fixing
IP degree of protection			IP00
Dimensions (W x H x D)		mm	640 x 600 x 380
Weight		Kg	48.9

**Dimensions**



TYPE	A	B	C	D	E	F
ADX 0310	640 (25.20")	600 (23.62")	380 (14.96")	620 (24.41")	400 (15.75")	100 (3.94")
ADX 0365	640 (25.20")	600 (23.62")	380 (14.96")	620 (24.41")	400 (15.75")	100 (3.94")
ADX 0470	790 (31.10")	650 (25.59")	430 (16.93")	770 (30.31")	450 (17.72")	100 (3.94")
ADX 0568	790 (31.10")	650 (25.59")	430 (16.93")	770 (30.31")	450 (17.72")	100 (3.94")
ADX 0640	790 (31.10")	650 (25.59")	430 (16.93")	770 (30.31")	450 (17.72")	100 (3.94")
ADX 0820	910 (35.83")	950 (37.40")	442 (17.40")	830 (32.68")	920 (36.22")	①
ADX 1200	910 (35.83")	950 (37.40")	442 (17.40")	830 (32.68")	920 (36.22")	①

① Consult Customer Service; see contact details on inside front cover.

**Certifications and compliance**

Compliance

IEC/EN 60947-1

IEC/EN 60947-4-2

Certificates

EAC

**ETIM classification**

ETIM 8.0

EC000640 - Soft  
starter