



Product designation Soft Starter ADXB ADX.					*
Product type designation	Product designation				Soft Starter
Motor type	_	tion			
Three phase					Asynchronous
Type of system Rated supply voltage auxiliary supply voltage auxiliary supply voltage (US) Rated frequency Three phase 208500VAC 208500VAC 208500VAC 208240VAC 209240VAC 20	iviotor type				
Type of system Rated supply voltage dus auxiliary supply voltage (Us) 208500VAC 208500VAC 208500VAC 208500VAC 208500VAC 208240VAC 208240V	Electrical features				
Rated supply voltage (bl. 2008240VAC auxiliary supply voltage) (bl. 2008240VAC auxiliary supply voltage) (bl. 2008240VAC Rated starter current le	Supplies voltage				
Auxiliary supply volfage (Us) Rated frequency Hz 50/60					
Rated starter current le A 190 Rated motor power IEC ratings (T≤40°C) 230VAC kW 55 400VAC kW 90 500VAC kW 132 UL ratings (T≤40°C) 220-240VAC HP 60 380-415VAC HP 100 440-480VAC HP 150 Number of controlled phases Nr. 3 Built-in bypass Forced Cooling System Forced Programming interface Backlit LCD 2x16 character Display Backlit LCD 2x16 character Programming with NFC technology No Optical port No Startup and stop settings Torque or voltage ramp with current limitation Startup method Torque ramp, voltage ramp, free-wheel stop voltage ramp free-wheel stop free-wheel			,	V	
Rated motor power IEC ratings (T≤40°C) 230VAC kW 55 400VAC kW 90 500VAC kW 132 UL ratings (T≤40°C) 220-240VAC KW 132 HP 60 380-415VAC HP 100 440-480VAC HP 150 Number of controlled phases Nr. 3 Built-in bypass Yes Cooling System Forced Programming interface Backlit LCD 2x16 character Programming with NFC technology No Optical port No Startup and stop settings Torque or voltage ramp with current limitation limitation Startup method Torque ramp, voltage ramp, voltage ramp, voltage ramp, voltage ramp with current limitation Braking method DC dynamic with external relay Protections No power, phase loss, phase sequence, frequency out of limits, minimum and maximum and maximum					
Rated motor power EC ratings (T≤40°C) 230VAC kW 55 400VAC kW 90 500VAC kW 132			Rated frequency		
IEC ratings (T≤40°C)	Rated starter current	le		Α	190
230VAC	Rated motor power				
A00VAC KW 90		IEC ratings (T≤40°C)			
SOUVAC KW 132			230VAC	kW	55
UL ratings (T≤40°C) 220-240VAC HP 60 380-415VAC HP 150 Number of controlled phases Nr. 3 Built-in bypass Yes Cooling System Forced Programming interface Display Backlit LCD 2x16 character Programming with NFC technology No Optical port No Startup and stop settings Startup method Torque or voltage ramp with current limitation Torque armp, voltage ramp, free-wheel stop Braking method Torque in the external relay Protections Auxiliary supply protection Voltage too low No power, phase loss, phase sequence, frequency out of limits, minimum and maximum and maximum and maximum			400VAC	kW	90
220-240VAC HP 60 380-415VAC HP 100 440-480VAC HP 150 Number of controlled phases Nr. 3 Built-in bypass Yes Cooling System Forced Programming interface Display Backlit LCD 2x16 character Programming with NFC technology No Optical port No Startup and stop settings 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 Protections Voltage too low No power, phase loss, phase sequence, frequency out of limits, minimum and maximum and maximum			500VAC	KW	132
Startup method Star		UL ratings (T≤40°C)			
Number of controlled phases Nr. 3 Built-in bypass Yes Cooling System Forced Programming interface Backlit LCD 2x16 character Display Backlit LCD 2x16 character Programming with NFC technology No Optical port No Startup and stop settings Torque or voltage ramp with current limitation Startup method Torque ramp, voltage ramp, voltage ramp, free-wheel stop Braking method DC dynamic with external relay Protections DC dynamic with external relay Auxiliary supply protection No power, phase loss, phase sequence, frequency out of limits, minimum and maximum			220-240VAC	HP	60
Number of controlled phases Nr. 3 Built-in bypass Yes Cooling System Forced Programming interface Brough and step settings Programming with NFC technology No Optical port No Startup and stop settings Torque or voltage ramp with current limitation Stop method Torque ramp, voltage ramp, free-wheel stop Stop method DC dynamic with external relay Protections DC dynamic with external relay Auxiliary supply protection Voltage too low Power supply Protection No power, phase loss, phase sequence, frequency out of limits, minimum and maximum			380-415VAC	HP	100
Built-in bypass Yes Cooling System Forced Programming interface Display Backlit LCD 2x16 character Programming with NFC technology No Optical port No Startup and stop settings Startup method Torque or voltage ramp with current limitation Torque armp, voltage ramp, voltage ramp, free-wheel stop Braking method DC dynamic with external relay Protections Auxiliary supply protection Voltage too low No power, phase loss, phase sequence, frequency out of limits, minimum and maximum			440-480VAC	HP	150
Cooling System Forced Programming interface Display Backlit LCD 2x16 character Programming with NFC technology No Optical port No Startup and stop settings Startup method ramp with current limitation Torque or voltage ramp with current limitation Torque ramp, voltage ramp, free-wheel stop Braking method DC dynamic with external relay Protections Auxiliary supply protection Voltage too low No power, phase loss, phase sequence, Power supply Protection Forced Proced Protections Auxiliary supply Protection Forced Protections No power, phase loss, phase sequence, Frequency out of limits, minimum and maximum	Number of controlled	phases		Nr.	3
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Display Backlit LCD 2x16 character Programming with NFC technology No Optical port No Startup and stop settings Startup method Startup method Torque or voltage ramp with current limitation Imitation Torque ramp, voltage ramp, free-wheel stop Braking method DC dynamic with external relay Protections Auxiliary supply protection Voltage too low No power, phase loss, phase sequence, frequency out of limits, minimum and maximum	Cooling System				Forced
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Startup method ramp with current limitation Torque ramp, voltage ramp, free-wheel stop Braking method DC dynamic with external relay Protections Auxiliary supply protection Voltage too low No power, phase loss, phase sequence, frequency out of limits, minimum and maximum	Startup and stop setti	ngs			
Stop method Stop method Braking method Braking method Protections Auxiliary supply protection Power supply Protection Ilimitation Torque ramp, voltage ramp, free-wheel stop DC dynamic with external relay Voltage too low No power, phase loss, phase sequence, frequency out of limits, minimum and maximum					
Stop method Torque ramp, voltage ramp, free-wheel stop Braking method DC dynamic with external relay Protections Auxiliary supply protection Voltage too low No power, phase loss, phase sequence, frequency out of limits, minimum and maximum	Startup method				
Stop method voltage ramp, free-wheel stop Braking method DC dynamic with external relay Protections Auxiliary supply protection Voltage too low No power, phase loss, phase sequence, frequency out of limits, minimum and maximum					
Braking method DC dynamic with external relay Protections Auxiliary supply protection Voltage too low No power, phase loss, phase sequence, frequency out of limits, minimum and maximum					
Braking method Protections Auxiliary supply protection Voltage too low No power, phase loss, phase sequence, frequency out of limits, minimum and maximum	Stop method				
Protections Auxiliary supply protection Voltage too low No power, phase loss, phase sequence, frequency out of limits, minimum and maximum					<u>'</u>
Protections Auxiliary supply protection Voltage too low No power, phase loss, phase sequence, frequency out of limits, minimum and maximum	Braking method				
Auxiliary supply protection No power, phase loss, phase sequence, frequency out of limits, minimum and maximum	Protections				external relay
No power, phase loss, phase sequence, Power supply Protection frequency out of limits, minimum and maximum		ction			Voltage too low
loss, phase sequence, Power supply Protection frequency out of limits, minimum and maximum	Auxiliary Supply protes	OHOTI			
Power supply Protection sequence, frequency out of limits, minimum and maximum					
Power supply Protection frequency out of limits, minimum and maximum					•
limits, minimum and maximum	Power supply Protect	ion			
and maximum	The second second				
voltage					
					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 Overcurrent, overtemperature,
Starter protection	bypass failure, phase shorted, temperature sensor fault, maintenance request
Functions	
Built-in bypass	Yes
Built-in display and keypad	Yes
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
Input and Output	
Digital inputs	

Digital inputs



ENERGY AND AUTOMATION

51ADX0190B

SOFT STARTER, ADX... TYPE, FOR SEVERE DUTY (STARTING CURRENT 5•IE). WITH INTEGRATED BY-PASS CONTACTOR, 190A

3 (2 digital inputs Number of digital input Nr. + 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

Digital input functions 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)

Analog inputs

51ADX0190B

Number of analog input Nr. 1 (digital/analog)

0-10VDC (0-20mA with external resistor

500Ω)

Analog input type



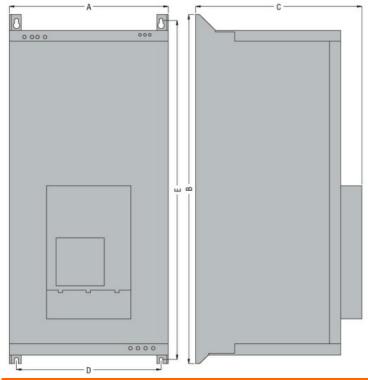


Digital outputs	Analog input functions		Motor protection via PTC probes, acceleration and/or deceleration ramp via analog input, analog input thresholds for motor starting and stopping, analog input thresholds for programmable relay enable and disable, PT100 input thresholds for motor starting and stopping and PT100 input thresholds for programmable relay enable and disable and disable
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
	Digital output functions		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)
Analog outputs	Number of analog output	Nr.	1
	Analog output type	1 11.	020mA, 420mA (010V with external
	Analog output functions		resistor 500Ω) Current, torque, motor thermal status, power factor and active power
Ambient conditions Temperature			
Operating ter	mperature min	°C	-10





	max	°C	+55°C (with current derating >45°C of 1.5%/ °C)
Storage temperature			
	min	°C	-30
	max	°C	+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
Housing			
Mounting			Screw-fixing
IP degree of protection			IP00
Dimensions (W x H x D)		mm	273 x 680 x 310
Weight		Kg	37.3
Dimensions			



TYPE	A	В	C	D	E
ADX 0142B	273 (10.75")	600 (23.62")	285 (11.22")	230 (9.05")	560 (25.20")
ADX 0190B	273 (10.75")	680 (26.77")	310 (12.20")	230 (9.05")	640 (25.20")
ADX 0245B	273 (10.75")	680 (26.77")	310 (12.20")	230 (9.05")	640 (25.20")

Certifications and compliance

Compliance

IEC/EN 60947-1

IEC/EN 60947-4-2

Certificates

EAC

ETIM classification

ETIM 8.0

EC000640 - Soft starter