51ADX0190B

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

Electrical features			
Supplies voltage			
	Type of system		Three phase
	Rated supply voltage	V	208…500VAC
	auxiliary supply voltage (Us)		208…240VAC
	Rated frequency	Hz	50/60
Rated starter current Ie		A	190
Rated motor power in-line			
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			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			
Auxiliary supply protection			Voltage too low
Power supply Protection			No power, phase loss, phase sequence, frequency out of limits, minimum and maximum voltage

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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	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	

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	Number of digital input	Nr.	3 (2 digital inputs + 1 digital/analog input)
	Digital input type		24VDC (no need for external feeder)
	Digital input functions		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)
Analog inputs			
	Number of analog input	Nr.	1 (digital/analog)
	Analog input type		0-10VDC (0-20mA with external resistor 500Ω)

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	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
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		0...20mA, 4...20mA (0...10V with external resistor 500Ω)
	Analog output functions		Current, torque, motor thermal status, power factor and active power
Ambient conditions			
Temperature			
	Operating temperature		
		min	°C -10

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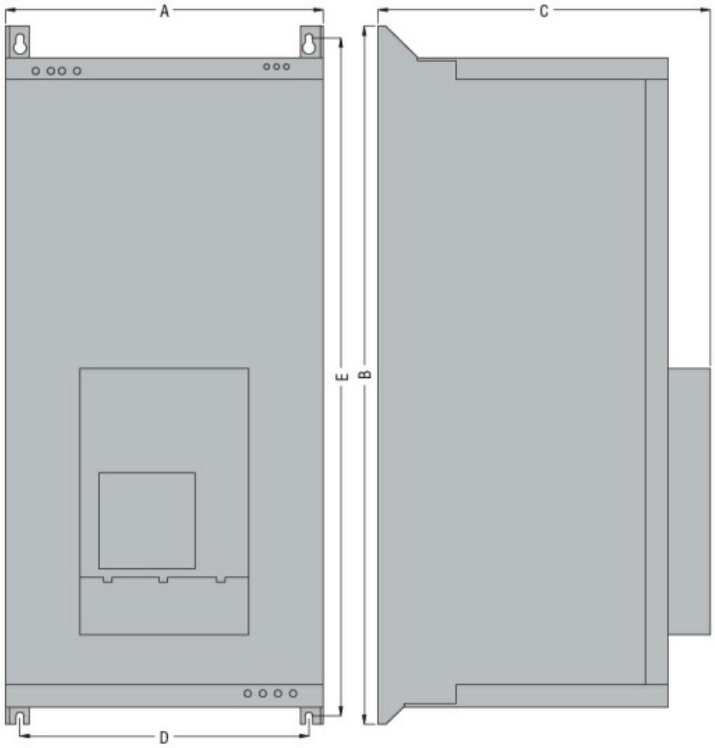
		max	°C	+55°C (with current derating >45°C of 1.5%/ °C)
	Storage temperature			
		min	°C	-30
		max	°C	+70
Max altitude			m	1000 without derating (over 1000mt with current derating of 0.5%/100m)
Relative humidity			%	95% without condensation or dripping
Pollution degree				3

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	B	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

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