



Product designation
Product type designation
Motor type

Soft Starter
ADX...B
Asynchronous
three phase

Electrical features

Supplies voltage

| | |
|-------------------------------|--------------|
| Type of system | Three phase |
| Rated supply voltage | 208...500VAC |
| auxiliary supply voltage (Us) | 208...240VAC |
| Rated frequency | 50/60 |
| Rated starter current Ie | 85 |

Rated motor power

IEC ratings (T≤40°C)

| | | |
|--------|----|----|
| 230VAC | kW | 22 |
| 400VAC | kW | 45 |
| 500VAC | KW | 55 |

UL ratings (T≤40°C)

| | | |
|------------|----|----|
| 220-240VAC | HP | 30 |
| 380-415VAC | HP | 50 |
| 440-480VAC | HP | 60 |

| | | |
|-----------------------------|-----|--------|
| 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 No power, phase loss, phase sequence, frequency out of limits, minimum and maximum voltage |
| Power supply Protection | |

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),

Starter protection

Overcurrent, overtemperature, bypass failure, phase shorted, temperature sensor fault, maintenance request

Functions

| | |
|--|----------|
| Built-in bypass | 3 |
| Built-in display and keypad | Yes |
| Languages | Yes |
| View measurements | 4 |
| 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 | Yes |
| Analog inputs | Yes |
| Digital outputs | Yes |
| Analog output | Yes |
| Monitoring communication | Yes |
| Optical port for programming | RS323 |
| Event log | No |
| Motor hour counter | Yes |
| Startup counter | Yes |
| Clock calendar | Yes |
| Remote external keypad | Yes |
| Plug-in version | Optional |

Input and Output

Digital inputs

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 moto |
| Analog inputs | | | |
| | | 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 |
| 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 | |
| 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 |
| 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

IP20

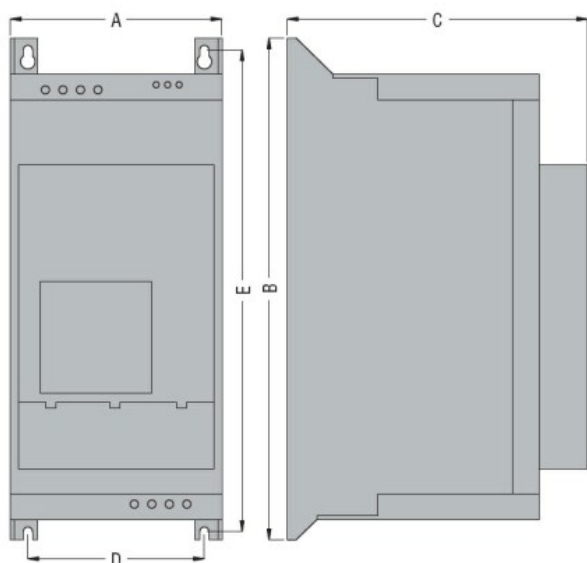
Dimensions (W x H x D)

mm 157 x 534 x 250

Weight

Kg 14.4

Dimensions



| TYPE | A | B | C | D | E |
|-----------|-------------|--------------|-------------|-------------|--------------|
| ADX 0017B | 157 (6.18") | 372 (14.64") | 223 (8.78") | 131 (5.16") | 357 (14.05") |
| ADX 0030B | 157 (6.18") | 372 (14.64") | 223 (8.78") | 131 (5.16") | 357 (14.05") |
| ADX 0045B | 157 (6.18") | 372 (14.64") | 223 (8.78") | 131 (5.16") | 357 (14.05") |
| ADX 0060B | 157 (6.18") | 534 (21.02") | 250 (9.84") | 132 (5.20") | 517 (20.35") |
| ADX 0075B | 157 (6.18") | 534 (21.02") | 250 (9.84") | 132 (5.20") | 517 (20.35") |
| ADX 0085B | 157 (6.18") | 534 (21.02") | 250 (9.84") | 132 (5.20") | 517 (20.35") |
| ADX 0110B | 157 (6.18") | 584 (22.99") | 250 (9.84") | 132 (5.20") | 567 (22.32") |
| ADX 0125B | 157 (6.18") | 584 (22.99") | 250 (9.84") | 132 (5.20") | 567 (22.32") |

Certifications and compliance

Compliance

IEC/EN 60947-1

IEC/EN 60947-4-2

Certificates

EAC

ETIM classification

ETIM 8.0

EC000640 - Soft
starter