

ADXM...BP type

5



51 ADXM 06BP
51 ADXM 12BP
51 ADXM 18BP



51 ADXM 25BP
51 ADXM 38BP
51 ADXM 45BP

Order code	IEC Rated starter current Ie in AC-53b	Rated motor power IEC UL/CSA	Qty per pkg	Wt [kg]
	[A]	[kW] [HP]	n°	[kg]

With integrated by-pass relay.
Three-phase 400VAC motor control.

51 ADXM 06BP	6	2,2 3	1	0,580
51 ADXM 12BP	12	5,5 7,5	1	0,580
51 ADXM 18BP	18	7,5 10	1	0,580
51 ADXM 25BP	25	11 15	1	0,800
51 ADXM 38BP	38	18,5 20	1	0,800
51 ADXM 45BP	45	22 25	1	0,800

With integrated by-pass relay.
Three-phase 220VAC motor control.

51 ADXM 06BP A220	6	1,1 1,5	1	0,580
51 ADXM 12BP A220	12	3 3	1	0,580
51 ADXM 18BP A220	18	4 5	1	0,580
51 ADXM 25BP A220	25	5,5 10	1	0,800
51 ADXM 38BP A220	38	11 10	1	0,800
51 ADXM 45BP A220	45	11 15	1	0,800

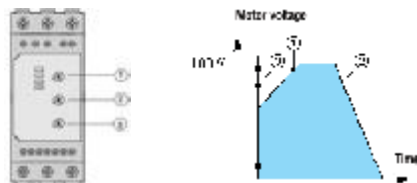
With integrated by-pass relay.
Three-phase 480VAC motor control.

51 ADXM 06BP A480	6	2,2 5	1	0,580
51 ADXM 12BP A480	12	5,5 7,5	1	0,580
51 ADXM 18BP A480	18	7,5 10	1	0,580
51 ADXM 25BP A480	25	15 20	1	0,800
51 ADXM 38BP A480	38	22 25	1	0,800
51 ADXM 45BP A480	45	30 30	1	0,800

With integrated by-pass relay.
Three-phase 600VAC motor control.

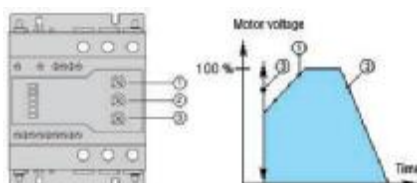
51 ADXM 06BP A600	6	3 5	1	0,580
51 ADXM 12BP A600	12	7,5 10	1	0,580
51 ADXM 18BP A600	18	11 15	1	0,580
51 ADXM 25BP A600	25	18,5 25	1	0,800
51 ADXM 38BP A600	38	22 30	1	0,800
51 ADXM 45BP A600	45	30 40	1	0,800

ADXM 06/12/18BP ADJUSTMENTS



- ① Ramp-up time 0.5 to 10s. Time from zero to full load voltage.
- ② Ramp-down time 0.5 to 20s. Time from full load voltage to zero.
- ③ Initial torque 0 to 85% of voltage at the beginning of the ramp-up function.

ADXM 25/38/45BP ADJUSTMENTS



- ① Ramp-up time 1 to 10s. Time from zero to full load voltage.
- ② Ramp-down time 1 to 30s. Time from full load voltage to zero.
- ③ Initial torque 0 to 70% of voltage at the beginning of the ramp-up function.

General characteristics

ADXM...BP is a compact type of soft starter, for three phase squirrel-cage induction motors; soft starts and soft stops rated motor load currents up to 45A. Starting and stopping times as well as initial torque can be independently adjusted by built-in potentiometers. ADXM...BP reduces the mechanical load on motors, shafts, gearboxes and drive belts.

Main features are:

- For three phase induction motors up to 22kW / 25HP at 400VAC and 30kW / 40HP at 600VAC
- 35mm DIN (IEC/EN 60715) rail mounting
- Integrated by-pass relay
- Full protection against overtemperature (ADXM 25/38/45BP)
- Simple setting and installation
- Ideal for conveyor belts, compressors, pumps, hoisting devices, blowers, fans, mixers.

Operational characteristics

- Number of controlled phases: 2
- Controlled input voltage L1-L2-L3:
 - 400VAC -15...+10% (ADXM...BP)
 - 220VAC -15...+10% (ADXM...BP A220)
 - 400VAC -15...+10% (ADXM...BP A480)
 - 600VAC -15...+10% (ADXM...BP A600)
- Frequency range: 50/60Hz ±10Hz self-configurable
- Auxiliary supply voltage:
 - A1-A2 - 24-110VAC/DC ±15% (ADXM 06/12/18BP...)
 - A1-A3 - 110-480VAC ±15% (ADXM 06/12/18BP...)
 - A1-A2 - 24-550VAC/DC ±15% (ADXM 25/38/45BP / A220 / A480)
 - A1-A2 24-600VAC/DC ±10% (ADXM 25/38/45BP A600)
- Start time adjustment (ramp up):
 - 0.5 to 10s (ADXM 06/12/18BP...)
 - 1 to 10s (ADXM 25/38/45BP...)
- Stop time adjustment (ramp down):
 - 0.5 to 20s (ADXM 06/12/18BP...)
 - 1 to 30s (ADXM 25/38/45BP...)
- Start torque adjustment (initial torque):
 - 0-85% voltage (ADXM 06/12/18BP...)
 - 0-70% voltage (ADXM 25/38/45BP...)
- Degree of protection: IP20
- LED indicators:

	ADXM 06/12/18BP	LED
Power on	Green LED	POWER ON
Ramp up/down	Yellow LED (constantly on)	RAMPING
By-pass relay	Yellow LED (constantly on)	BYPASS

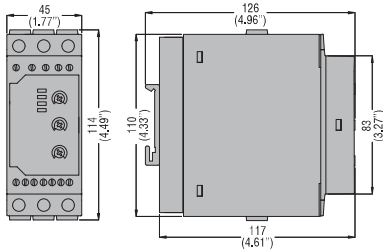
	ADXM 25/38/45BP	LED	
Power on	Green LED	POWER ON	
Ramp up/down	Yellow LED (flashing)	RAMPING	
By-pass relay	Yellow LED (constantly on)	BYPASS	
Overtemperature inside starter	Red LED (flashing)	OVERHEAT	
Overtemperature in motor (PTC)	Red LED (constantly on)		
Phase failure/loss①	Red LED (flashing)	WRONG SEQ	
Wrong phase sequence①	Red LED (fast flashing)		PHASE LOSS
Voltage too low	Red LED (slow flashing)		

① These protections are active at power on only.

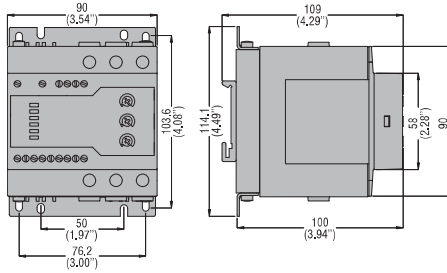
Certifications and compliance

Certifications obtained: GOST; UL Listed for USA and Canada (File E223223) as "Solid-state motor controllers". Compliant to standards: IEC/EN 60947-1, IEC/EN 60947-4-2, UL508, CSA C22-2 n° 14.

Soft Starters ADXM 06BP - ADXM 18BP

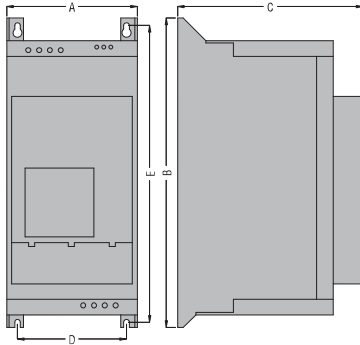


ADXM 25BP - ADXM 45BP



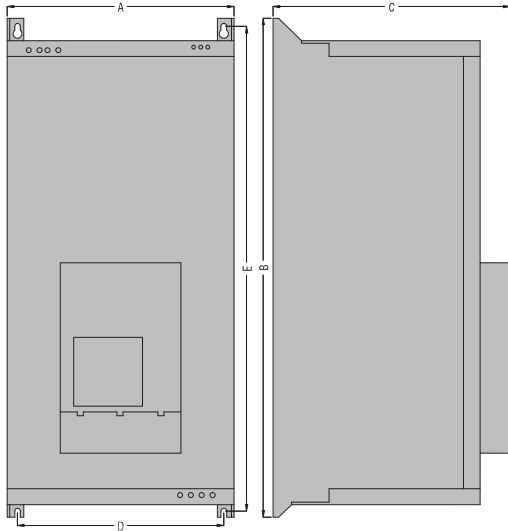
5

ADX 0022BP - ADX 0126BP ADX 0017 B - ADX 0125 B



TYPE	A	B	C	D	E
ADX 0022BP	157 (6.18")	372 (14.64")	223 (8.78")	131 (5.16")	357 (14.05")
ADX 0034BP	157 (6.18")	372 (14.64")	223 (8.78")	131 (5.16")	357 (14.05")
ADX 0048BP	157 (6.18")	372 (14.64")	223 (8.78")	131 (5.16")	357 (14.05")
ADX 0058BP	157 (6.18")	534 (21.02")	250 (9.84")	132 (5.20")	517 (20.35")
ADX 0068BP	157 (6.18")	534 (21.02")	250 (9.84")	132 (5.20")	517 (20.35")
ADX 0082BP	157 (6.18")	534 (21.02")	250 (9.84")	132 (5.20")	517 (20.35")
ADX 0092BP	157 (6.18")	534 (21.02")	250 (9.84")	132 (5.20")	517 (20.35")
ADX 0114BP	157 (6.18")	584 (22.99")	250 (9.84")	132 (5.20")	567 (22.32")
ADX 0126BP	157 (6.18")	584 (22.99")	250 (9.84")	132 (5.20")	567 (22.32")
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")

ADX 0150BP - ADX 0231BP ADX 0142 B - ADX 0245 B



TYPE	A	B	C	D	E
ADX 0150BP	273 (10.75")	600 (23.62")	285 (11.22")	230 (9.05")	640 (25.20")
ADX 0196BP	273 (10.75")	680 (26.77")	310 (12.20")	230 (9.05")	640 (25.20")
ADX 0231BP	273 (10.75")	680 (26.77")	310 (12.20")	230 (9.05")	640 (25.20")
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")