

PRODUCTS

ZD-15 AC motor electronic brake is an electronic control device to realize fast and effective braking of AC asynchronous motor. ZD-15S is mounted by 35mm standard clamping rail and ZD-15L is mounted by connecting plate.



ZD-15S



ZD-15L

PRODUCT FEATURES

- ◆ 1. Braking effect is fast, effective and long service life.
- ◆ 2. Braking current and braking time can be set according to AC motor and load.
- ◆ 3. can monitor whether the AC motor braking stall, in the motor braking stall half a second to one second to stop the output of the braking signal.
- ◆ 4. Conveniently connected with the main circuit of AC motor, applicable to single-speed, multi-speed, star connection, angle connection, and can be interlocked with the control circuit to ensure safe and reliable operation.
- ◆ 5. for the user, the use of the device relative to the use of traditional braking device has the advantages of low cost, easy to install, rapid braking, long service life and so on.

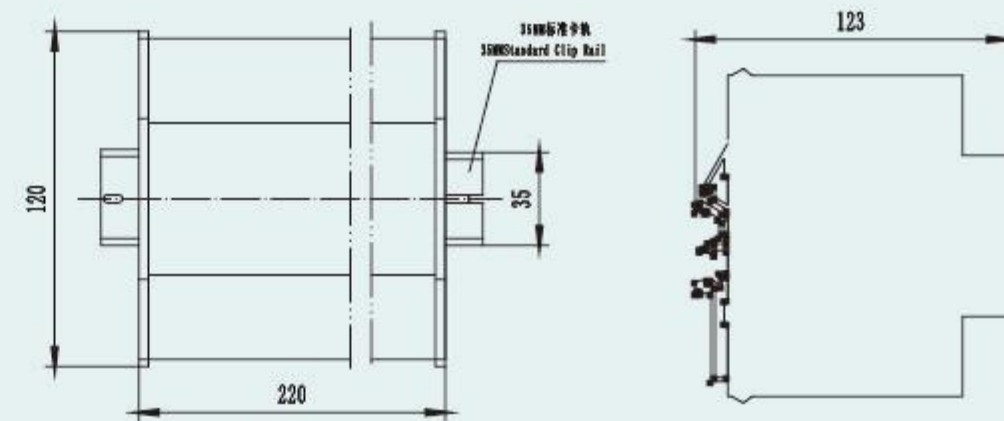
PRECAUTIONS

- ◆ 1. In the case of braking time allows to reduce the braking current, in order to avoid overheating and vibration of the motor, generally set the braking current should be less than 1.2 times the rated current of the motor.
- ◆ 2. When connecting the external line, you must ensure that the brake contactor and the motor forward and reverse contactor are interlocked to prevent the power supply from short-circuiting.

INSTALLATION INSTRUCTIONS

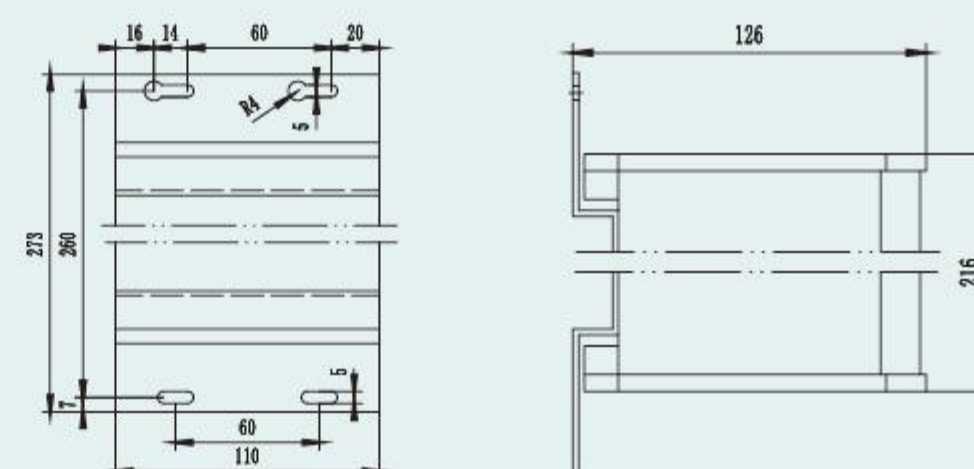
ZD-15S installation dimensions and description

Mounted on a 35mm rail, firmly grounded, the input power supply should be connected to a two-phase air switch before connecting to the power supply side of the brake.



ZD-15L installation dimensions and description

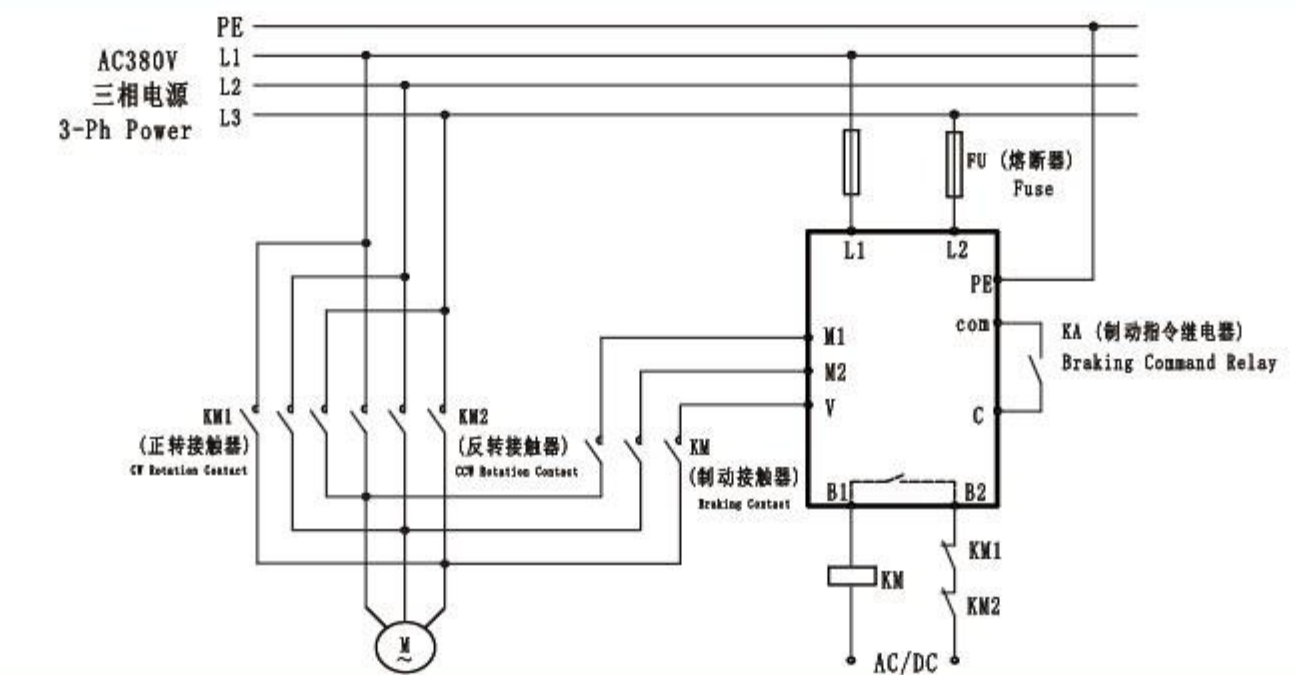
Mounted with a connection plate and firmly grounded, the input power supply terminal should be connected to a two-phase air switch before connecting to the power supply terminal of this brake.



ELECTRICAL PARAMETERS

Model No.	Applicable Motors	Braking Current	Input Voltage
ZD-15	≤7.5KW	≤22A	AC380V±10% (AC220V to be Customized)

ELECTRICAL DRAWINGS



TERMINAL DESCRIPTION

B1、B2	Two normally open contacts of the brake's internal relay for controlling the brake contactor, capacity AC240V3ADC28V3A.
B3、B4	The two normally open contacts of the brake's internal relay can be backed up.
C、COM	Brake internal power supply, when the need for motor braking, external brake trigger signal control C and COM closed for more than 0.1 seconds to trigger the braking process.
L1、L2	Brake operating power input, usually AC380V (when AC220V is required, special order is required).
M1、M2	The brake current output terminals are connected to any two-phase leads of the motor through the two main contacts of the brake contactor.
V	The speed measurement input terminal is connected through the other main contact of the brake contactor to the other phase terminal of the motor except the one connected to M1 and M2.
PE	Ground wire terminal, need to be firmly grounded.
Braking Time	Used to set the braking time limit in the range of 1.5 to 9 seconds.
Braking Current	Used to set the braking current, range 7-22A, adjusted to match the motor.

SETTING INSTRUCTIONS

1. Braking time limit setting (blank for switch downward OFF)

Level	SETPOINT															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1									ON	ON	ON	ON	ON	ON	ON	ON
2				ON	ON	ON	ON					ON	ON	ON	ON	ON
3			ON	ON			ON	ON				ON	ON			ON
4	ON	ON			ON	ON			ON	ON			ON	ON		ON
Time Limit(s)	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9

2. Brake current setting (blank for switch down OFF)

Level	SETPOINT															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
5										ON	ON	ON	ON	ON	ON	ON
6						ON	ON	ON	ON				ON	ON	ON	ON
7			ON	ON			ON	ON			ON	ON			ON	ON
8	ON	ON			ON	ON			ON	ON			ON	ON		ON
Braking Current(A)	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22