Microswitch



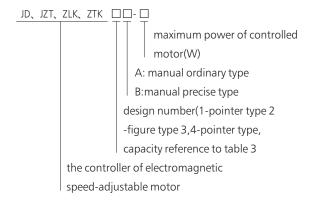


JD, JZT, ZLK, ZTK Electromagnetic Speed-adjustable Motor Control Device

1. General

JD, JZT, ZLK, ZTK series electromagnetic speed-adjustable motor controller is the national union (unified) design product of the former Ministry of Machinery Industry used to control speed governing of the electromagnetic speed-adjustable motor (slip motor) to achieve constant torque stepless speed control. The controller applies only to slip motor instead of ordinary motor.

2. Type designation



3. Operating conditions

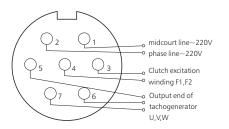
3.1 Scope of speed adjustment Power supply:~220V(±10%), 50Hz or 60Hz, 100r/min~1300r/min

3.2 Rotation speed variation rate (mechanical properties-hardness)

Rotation speed = $\frac{\text{Speed under 5\% load - Speed under 100\% load}}{\text{Rated speed}} \times 100\%$

- 3.3 Steady speed accuracy≤1%
- 3.4 Maximum output:DC90V,8A
- 3.5 Controlling motor power:0.55kW~90kW
- 3.6 voltage speed ratio in three-phase midfrequency of tachogenerator≥2V/100r/min

Plug number	Connect corresponding name				
1	midcourt line~220V				
2	phase line~220V				
3	Clutch excitation winding F1				
4	Clutch excitation winding F2				
5	Output end of tachogeneratorU				
6	Output end of tachogeneratorV				
7	Output end of tachogeneratorW				



Note:F1,F2 are to select and use (recommend) 1mm2 copper conductor with 0.55kW \sim 40kW and 1.5mm2 copper conductor with 45kw-90kw;U,V,W conductors are select and use (recommend) 0.75mm2 or 1mm2 copper conductor.

Controller

3.7 Manual ordinary type

Table 1

Model No.	JD ₂ ¹ A-11	JD ₂ ¹ A-40	JD ₂ ¹ A-90
Supply voltage	~220V(±10%) 50Hz~60Hz		
Maximum output rating(direct current 90V)	3.15A	5A	8A*
Controllable power of motor (kW)	0.55~11	15~40	45~90
Tachogenerator	Ratio of transmission of Phase-III i-f voltage is ≥2V/100r/min		
Relative speed variation	≤2.5%		
Steady velocity precision	≤1%		
Governor deflection (r/min)	1300~100	1300~100	1300~130

3.8 Manual accurate type

Table 2

Model No.	JD ₂ ¹ B-11	JD 1/2B-40	JD 1/2 B-90
Supply voltage	~220V(±10%) 50Hz~60Hz		
Maximum output rating(direct current 90V)	3.15A	5A	8A*
Controllable power of motor (kW)	0.55~11	15~40	45~90
tachogenerator	Ratio of transmission of Phase-III i-f voltage is ≥2V/100r/min		
Relative speed variation	≤1%		
Governor deflection (r/min)	1300~100	1300~100	1300~130

^{*:} when it is greater than 8A but less than 12A, the working time shall not be longer than 30min.

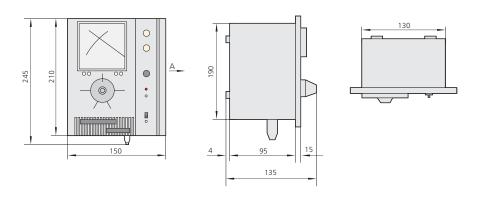
3.9 JZT,ZLK-1,ZTK-1 technical parameter

Table 3

Model No.	JZT3	JZT4		ZLK-1	ZTK-1	
Supply voltage	~220V(±10%) 50Hz~60Hz					
Maximum output rating(direct current 90V)	5A	8A	5A	5A	8A	
Controllable power of motor (kW)	0.55~40	45~90	0.55~40	0.55~40	45~90	
Tachogenerator	Ratio of transmission of Single-phase or phase-III i-f voltage is ≥2V/100r/min					
Relative speed variation	≤2.5%					
Governor deflection (r/min)	1300~100	1300~130	1300~100	1300~100	1300~130	

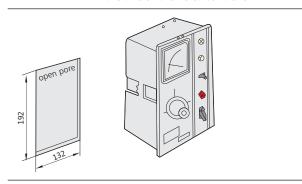
4. Overall and mounting dimensions

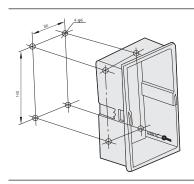
JD₂¹A,JD₂¹B-type external dimensions



 $JD_2^1A_rJD_2^1B$ -type plate embedded-type installation and the size of the holes controller

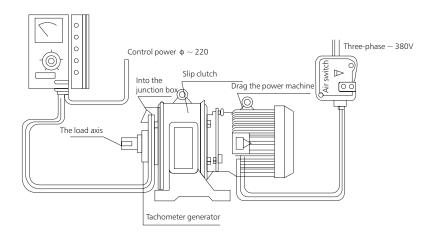
 $JD_{2}^{1}A_{r}JD_{2}^{1}B$ -type used for wall-hung type installation size





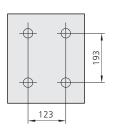


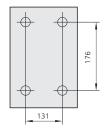
Link connecting control casing and asynchronous motor with electromagnetic speed regulation



ZTK, ZLK wall-hung type installation size

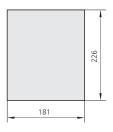
JZT wall-hung type installation size





Size of ZTK, ZLK plate embedded-type opening

Size of JZT plate embedded-type opening





5. Ordering information

- 5.1 When ordering, shall give clear indicate of type, tachometer form, operation type, controlled power of motor and quantity.
- 5.2 If there are other special requirements, shall be indicated
- 5.3 ordering example: 200 JD1A-40, represent JD1A with indicating pointer, manual conventional type, controlled power of motor 40kW 200 of motor controllers with electromagnetic speed regulation.