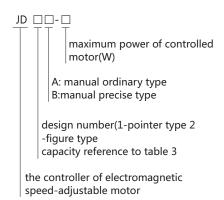


# JD **Electromagnetic Speed-adjustable Motor Control Device**

### 1. General

JD 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.

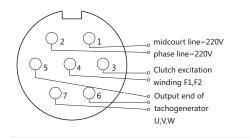
# 2. Type designation



### 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 = Speed under 5% load - Speed under 100% load ×100% variation rate Rated speed
- 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~40kW and 1.5mm2 copper conductor with 45kw-90kw;U,V,W conductors are select and use (recommend) 0.75mm2 or 1mm2 copper conductor.

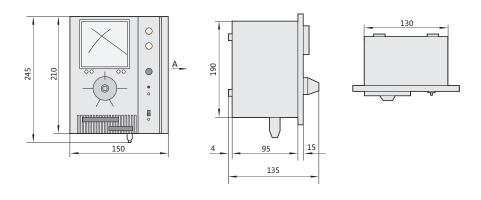
# 3.7 Manual ordinary type

Table 1

Model No.	JD <sub>2</sub> <sup>1</sup> A-11	JD <sub>2</sub> <sup>1</sup> A-40	JD <sub>2</sub> <sup>1</sup> 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	

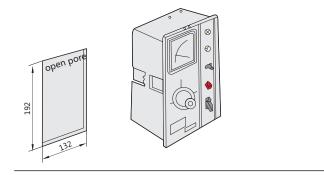
# 4. Overall and mounting dimensions

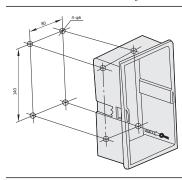
JD<sub>2</sub><sup>1</sup>A-type external dimensions



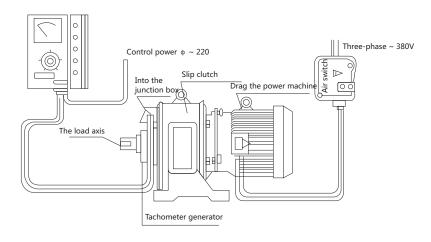
 $\mbox{JD}_2^1\mbox{A-type}$  plate embedded-type installation and the size of the holes controller

 ${\sf JD}_2^1{\sf A}\text{-type}$  used for wall-hung type installation size





Link connecting control casing and asynchronous motor with electromagnetic speed regulation



# **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.