

# BZD/BZDY系列

## 防爆锥形转子三相异步电动机

### BZD/BZDY series of explosion-proof conical rotor three-phase asynchronous motor

#### 产品特性

本电动机为防爆锥形转子三相异步电动机(以下简称电动机),外壳防护等级IP65,绝缘等级F级,冷却方式为IC410。

#### 一、适用范围

本系列防爆电动机性能符合 GB/T 3836.1-2021《爆炸性环境第 1 部分:设备通用要求》、GB/T 3836.2-2021《爆炸性环境第 2 部分由隔爆外壳“d”保护的的设备》、GB/T3836.31-2021《爆炸性环境第 31 部分:由防粉尘点燃外壳“t”保护的的设备》的规定。防爆标志为 Ex db II C T4 Gb, Ex tb IIIC T130°C Db, 适用于工厂有 IIA、IIB、IIC 组的爆炸性气体环境、21 区域, A 类设备 T4 条件下可燃性粉尘环境中使用的设备,作为起重机械电力传动用。

#### 二、安装方式

IM3001、IM3601。

#### 三、工作条件

环境气压: 86kPa-110kPa;

环境空气温度 -20~+40°C;

相对湿度不大于 85%(+25°C时);

除煤矿外,工厂用 IIA、IIB、IIC 组的爆炸性气体环境、可燃性粉尘环境;

额定电压为 380V、660V,额定工作频率为 50Hz;

接法: Y;

基准工作制: S4-25% (即工作制 S4, 负载持续率 25%);

每小时等效起动次数为 120 次。



#### Product Characteristics

The motor is explosion-proof conical rotor three-phase asynchronous motor (below motor for short), enclosure protection grade IP65, insulation grade F, and cooling mode IC410.

#### 1、Scope of application

The performance of explosion-proof motors conforms to requirements of GB/T 3836.1-2021《Explosive atmospheres parts 1: Equipment general requirements》、GB/T 3836.2-2021《Explosive atmospheres parts 2: Equipment protection by flameproof enclosure “d”》、GB/T3836.31-2021《Explosive atmospheres-part 31: equipment protected by the dust-proof ignition housing “t”》. The explosion-proof mark is Ex db II C T4 Gb, Ex tb IIIC T130°C Db, suitable for the explosive gas environment of the IIA, IIB and IIC groups in the factory, and the flammable dust environment under the 21 areas, T4 condition of the Class A equipment. Used as power transmission for hoisting machinery. It is used for electric transmission of hoisting machinery.

#### 2、Installation method

IM3001, IM3601.

#### 3、Working conditions

Ambient air pressure: 86kPa-110kPa;

Ambient temperature: -20~+40°C;

Relative humidity not greater than 85% (+25°C);

In addition to coal mines, factories use in IIA, IIB and IIC explosive atmospheres and flammable dust environments;

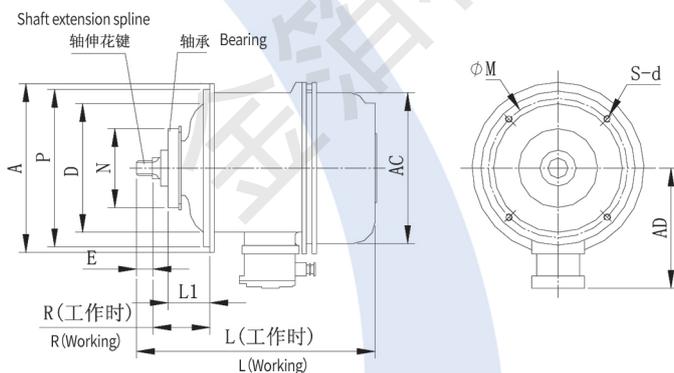
Rated voltage 380V、660V, rated working frequency 50Hz;

Connection: Y;

Benchmark work: S4-25% (working S4, load persistence rate 25%);

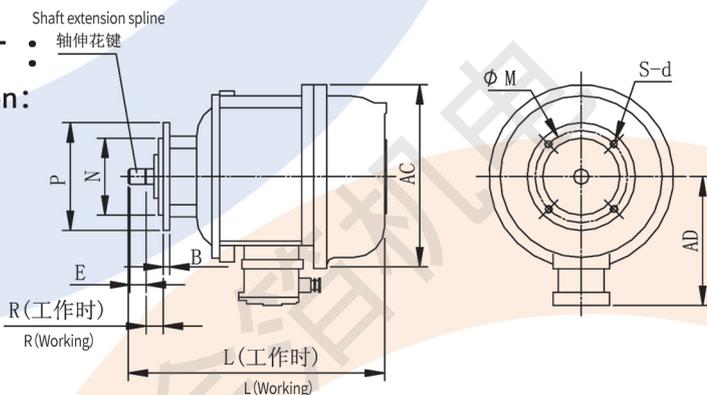
Equivalent number of starts per hour is 120.

**BZD 型电动机外形及安装尺寸：**  
**BZD motor outline and installation dimension:**



型号及功率 kW Type and power (kW)	安装尺寸 Installation dimensions											外形尺寸 Outline dimension		
	轴伸花键 Shaft extension spline	A	E	R(工作时) R(Working)	L1	P	D	N	M	d	S	AC	AD	L(工作时) L(Working)
BZD21-4 0.8	6D-20x16x4	22	73	60	220	177	110	196	9	4	276	233	386	
BZD 22-4 1.5														73
BZD 31-4 3.0	6D-28x23x6	30	100	81	290	223	120	260	13	4	334	260	458	
BZD 32-4 4.5			91		320			286					474	
BZD 41-4 7.5	10D-35x28x4	35	118	97	380	260	160	340	17	4	404	282	575	
BZD 51-4 13	10D-40x32x5	38	172	137	455	294	200	415			730			
BZD52-4 18.5	10D-45x36x5	55	187	168	455	300	200	415	17	4	480	325	762	
BZD52-4D 18.5				158	450			490						

**BZDY 型电动机外形及安装尺寸：**  
**BZDY motor outline and installation dimension:**



型号及功率 (kW) Type and power (kW)	安装尺寸 Installation dimensions									外形尺寸 Outline dimension		
	轴伸花键 Shaft extension spline	E	R(工作时) R(Working)	N	P	M	d	S	AC	AD	L(工作时) L(Working)	
BZDY11-4 0.2	4D-15×12×4	22	16	75	110	90	7	4	155	155	317	
BZDY12-4 0.4												
BZDY21-4B 0.8	6D-20×16×4	24	20	100	140	120	9	4	276	238	398	
BZDY22-4B 1.5												
BZDY21-4D 0.8	6D-25×22×6	30	11.5	180	220	200	11	4	276	238	398	
BZDY22-4D 1.5												
BZDY23-4 2.2												