

A large industrial machine, likely a frequency converter, with a control panel on the left side. The panel features a digital display and several buttons. The machine is white and blue, with a black control panel. The text "DECKEL WMAHO" is visible on the side of the machine.

JMUS FREQUENCY CONVERTER VELOCITY MODULATION THREE-PHASE ASYNCHRONOUS MOTOR JMUS变频调速三相异步电动机



概述

JMUS系列变频调速电动机吸收了德国、日本等先进国家产品之优点，应用计算机辅助设计技术进行设计。可与国内外同类型变频装置配套、互换性、通用性强。电机采用鼠笼型结构，运行可靠，维护方便。电机单独装有轴流风机，保证电机在不同转速下均有较好的冷却效果。电机绝缘采用国际上广为使用的F级绝缘结构。提高了电机的可靠性，电机的功率、底脚安装尺寸和中心高等对应指标与JM系列异步电机完全一致。

本系列电机可广泛应用于轻工、纺织、化工、冶金、机床等需要调速转动装置的行业中，是一种理想的调速动力源。

本系列电机功率从0.25kW~315kW，机座中心高从H63~355。

GENERALIZATION

JMUS series frequency converter velocity modulation motors, adopting the advantages of the same type of motors in Germany and Japan, are designed with computer aided design technology. It can match the same type of frequency converters at home and abroad and has a good interchangeability and universality. It has used squirrel-cage construction and is reliable and easy for maintenance. Mounted with an axial forced ventilator, it can guarantee good cooling effect at different speed. The frame and power allocation is the same as JM.

This series of motor can be widely used in industries in need of velocity modulation such as light industry, textile, chemical, metallurgy, and machine tools. It is an ideal power source of velocity modulation.

This series of motor is available from 0.25kW to 315kW on frame size H63 - 355.

代号说明 DESIGNATION

产品型号 Motor Identification symbol	三相异步变频调速电动机 Three-phase induction AC motor with frequency converter velocity modulation	JMUS	132M	4	极数 No. of poles 机座号 Frame size
防护等级 Protection Class	国际防护表征字母 International protection symbol	IP	5	5	防喷水 Splashproof 防尘 Protecting against dust
冷却方式 Cooling method	国际冷却法 International cooling symbol	IC	411		全封闭自扇冷式 Totally-enclosed, fan-cooled type

接线盒主要数据 MAIN DATA FOR TERMINAL BOX

接线盒分档 Classified No.	机座号范围 Frame size	最大满载电流 Max.F.L.Amps	进线孔尺寸（引接电缆） Entry hole size (For lead cable)
1	H63-80	2.6	1XM20X1.5
2	H90-100	6.8	1XM25.1.5
3	H112-132	15.6	2XM32X1.5
4	H160-180	42.9	2XM40X1.5
5	H200-225	85	2XM50X1.5
6	H250-280	167.4	2XM63X1.5
7	H315	167.4	2XM63X1.5
8	H355	360	2XM63X1.5

◆ 电动机风扇除H315-355机座号采用铝合金件或铜板冲制外，其余均采用增强塑料。风罩采用冷轧钢板拉伸成型，机械强度高。

电动机采用独立风机冷却，能保证电动机在低频运行时，更好的散热；高频运行时，更好延长电动机的寿命。

◆ Fans are generally made of reinforced plastic except for that of frame size H315-355 made of aluminum alloy or steel plate. Fancovers are all made of cold-rolled steel with high mechanical strength.

The motors have external cooling fan to ensure of better cooling at low frequency and longer life at high frequency.

轴承规格 BEARING SIZE

机座 Frame	极数 Poles	轴伸端 Drive End	非轴伸端 Non-drive End
63	2、4	6201-ZZ-C3	6201-ZZ-C3
71	2、4、6	6202-ZZ-C3	6202-ZZ-C3
80	2、4、6、8	6204-ZZ-C3	6204-ZZ-C3
90	2、4、6、8	6205-ZZ-C3	6205-ZZ-C3
100	2、4、6、8	6206-ZZ-C3	6206-ZZ-C3
112	2、4、6、8	6306-ZZ-C3	6306-ZZ-C3
132	2、4、6、8	6308-ZZ-C3	6308-ZZ-C3
160	2、4、6、8	6309-C3	6309-C3
180	2、4、6、8	6311-C3	6311-C3
200	2、4、6、8	6312-C3	6312-C3
225	2、4、6、8	6313-C3	6313-C3
250	2、4、6、8	6314-C3	6314-C3
280	2	6314-C3	6314-C3
	4、6、8	6317-C3	6317-C3
315	2	6317-C3	6317-C3
	4、6、8	NU319	6319-C3
355	2	6319-C3	6319-C3
	4、6、8	NU322	6322-C3

功率与机座号的对应关系表 OUTPUT AND FRAME SIZE

功率 Output Kw	机座号 Type designation				功率 Output Kw	机座号 Type designation			
	2P	4P	6P	8P		2P	4P	6P	8P
0.25	---	711		---	22	180M	180L	200L2	225M
0.37	711	712	801	---	30	200L1	200L	225M	250M
0.55	712	801	802	---	37	200L2	225s	250M	280S
0.75	801	802	90S	100L1	45	225M	225M	280S	280M
1.1	802	90S	90L	100L2	55	250M	250M	280M	315S
1.5	90S	90L	100L	112M	75	280S	280S	315S	315M
2.2	90L	100L1	112M	132S	90	280M	280M	315M	315L1
3	100L	100L2	132S	132M	110	315S	315S	315L1	315L2
4	112M	112M	312M1	160M1	132	315M	315M	315L2	355M1
5.5	132S	132S	312M2	160M2	160	315L1	315L1	---	355M2
7.5	132S2	132M	160M	160L	200	315L2	315L2	355M	355L
11	160M1	160M	160L	180L	250	315M	355M	355L	---
15	160M2	160L	180L	200L	315	355L	355L	---	---
18.5	160L	180M	200L1	225S					

额定转矩、标称功率与调频范围的对应关系表

RATED TORQUE、RATING OUTPUT AND FREQUENCY RANGE

功率 kw	3000 r/min	恒转矩调频范围 Frequency Range with constant torque Hz	恒功率调频范围 Frequency Range with constant output Hz	1500 r/min	1000 r/min	750 r/min
	额定转矩 Rated torque Nm			额定转矩 Rated torque Nm		
0.25		5-50	50-120	1.73	2.65	3.46
0.37	1.26			2.54	3.93	5.12
0.55	1.88			3.78	5.84	7.61
0.75	2.54			5.15	7.87	10.23
1.1	3.72			7.50	11.54	15.00
1.5	5.04			10.23	15.24	20.46
2.2	7.40			14.80	22.35	29.59
3	9.95			20.18	29.84	40.35
4	13.22			26.53	39.79	53.06
5.5	18.11			36.48	54.71	72.59
7.5	24.00	5-50	50-100	49.74	73.84	99.50
11	35.85			71.59	108.30	143.90
15	48.89			98.12	147.68	196.23
18.5	60.30			120.9	182.14	242.02
22	71.46	5-50	50-100	142.93	216.60	287.81
30	79.12			160.96	292.35	382.47
37	119.78			198.51	360.56	484.04
45	144.70			290.37	438.52	580.74
55	176.85			354.90	535.97	709.80
75	241.16			483.95	730.87	967.91
90	288.39			578.79	872.59	1161.49
110	352.51			707.41	1066.50	1419.60
132	423.02			848.89	1279.80	1692.08
160	572.25			1028.96	1543.43	2051.00
200	640.94			1286.20	1292.29	2563.38
250	799.83			1602.35	2411.62	
315	100.79			2018.96		

JMUS电机能根据用户需要安装各种光电编码器，以满足用户对电机调速和控制的需要。
本公司基本配置为金龙产品，E6C2系列和E6B2系列。

To control and adjust the motor speed, JMUS series motor can be equipped with photoelectric encoder.
Our preferred encoder with our motor is "JINLONG"s E6C2 series and E6B2 series.

E6C2规格与主要参数 TECHNICAL DATA OF E6C2 ENCODER

项目 型式 Type	E6C2-CWZ6C型 Type E6C2-CWZ6C	E6C2-CWZ5B型 Type E6C2-CWZ5B	E6C2-CWZ3E型 Type E6C2-CWZ3E	E6C2-CWZ1X型 Type E6C2-CWZ1X
规格电源电压 Power Supply Voltage	DC5-5%~24+15%V	DC12-10%~24+15%V	DC5-5%~12+10%V	DC5±5%V
消费电流 Consumption Current	80mA以下(Below 80mA)	100mA以下(Below 100mA)		160mA以下(Below 160mA)
分解能(脉冲/旋转) Resolution (Pulse/rotate)	10,20,30,40,50,60,100,200,300, 360,40,500,600,720,800,1000, 1024,1200,1500,1800,2000	100,200,350,500, 600,1000,2000	10,20,30,40,50,60,100,200,300,360, 400,500,600,1000,1200,1500,1800,2000	
输出项 Output Phas	A、B、Z相 (可转换) Phase A,B,Z (Switchable)			A、 $\bar{A}$ 、B、 $\bar{B}$ 、Z、 $\bar{Z}$ 相 Phase A、 $\bar{A}$ 、B、 $\bar{B}$ 、Z、 $\bar{Z}$
输出形态 Output Form	NPN开路集极 NPN open-circuit collector	PNP开路集极 PNP open-circuit collector	电压输出 (NPN输出) Voltage Output (NPN Output)	直线输出 Direct line output
输出容量 Output Capacity	施加电压: DC30V max SINK电压: 35mA max 残留电压: 0.4V以下 (电流: 35mA) Applied Voltage: DC30V max SINK Voltage: 35mA max Residual Voltage: Below 0.4 (Current: 35mA)	SINK电压: 35mA max 残留电压: 0.4V以下 (电流: 35mA) Sink Voltage: 35mA max Residual Voltage: Below 0.4 (Current: 35mA)	输出抵抗: 2k Ω 残留电压: 0.4V以下 SINK电压: 20mA max Output resistance: 2k Ω Residual Voltage: Below 0.4 V Sink Voltage: 20mA max	AM26LS31相当输出电流水准: IO=-20mA L水准: IS=20mA 输出电压: VO=2.5V min. VS=0.5V max. AM26LS31 is equivalent to output current H level: IO=-20Ma L level: IS=20Ma Output Voltage: VO=2.5Vmin VS=0.5max
最高应答频率 The Highest Responding Frequency	100kHz	50kHz		100kHz
输出位相差 Output Phase Different	A相、B相的位相差90° ±45° (1/4T±1/8T)			Different of Phase A and B is 90° ±45° (1/4T±1/8T)
输出产生 消失时间 Time of Output Occuring and Disappearing	1 μ s以下控制 输出电压: 5V 负载阻抗: 1k Ω 缆线长度: 2m Controlling Output Voltage below 1 μ s:5v Load impedance: 1k Ω cable length:2m	1 μ s以下 缆线长度: 2m SINK电压: 10mA	Below 1 μ s Cable Length: 2m Sink Voltage: 10m	0.1 μ s以下 缆线长度: 2m IO=-20mA、IS=20mA Below 1 μ s Cable Length: 2m IO=-20mA、IS=20mA

E6B2规格与主要参数 TECHNICAL DATA OF E6B2 ENCODER

项目 型式 Type	E6B2-CWZ6C型 Type E6B2-CWZ6C	E6B2-CWZ3E型 Type E6B2-CWZ3E	E6B2-CWZ1E型 Type E6B2-CWZ1E
规格电源电压 Power Supply Voltage	DC5-5%~24+15%V	DC5-5%~12+10%V	DC5±5%V
消费电流 Consumption Current	80mA以下(Below 80mA)	100mA以下(Below 100mA)	160mA以下(Below 160mA)
分解能(脉冲/旋转) Resolution (Pulse/rotate)	10,20,30,40,50,60,100,200,300,360,400,600,1000,1200,1500,1800,2000		
输出项 Output Phas	A、B、Z相 (可转换) Phase A,B,Z (Switchable)		A、 $\bar{A}$ 、B、 $\bar{B}$ 、Z、 $\bar{Z}$ 相 Phase A、 $\bar{A}$ 、B、 $\bar{B}$ 、Z、 $\bar{Z}$
输出形态 Output Form	开路集极 Open-circuit collector		电压输出 Voltage Output
输出容量 Output Capacity	施加电压: DC30V max SINK电压: 35mA max 残留电压: 0.4V以下 (电流: 35mA) Applied Voltage: DC30V max SINK Voltage: 35mA max Residual Voltage: Below 0.4 (Current: 35mA)	输出抵抗: 2k Ω 残留电压: 0.4V以下 SINK电压: 20mA max Output resistance: 2k Ω Residual Voltage: Below 0.4 V Sink Voltage: 20mA max	AM26LS31相当输出电流水准: IO=-20mA L水准: IS=20mA 输出电压: VO=2.5V min. VS=0.5V max. AM26LS31 is equivalent to output current H level: IO=-20Ma L level: IS=20Ma Output Voltage: VO=2.5Vmin VS=0.5max
最高应答频率 The Highest Responding Frequency	1100kHz		
输出位相差 Output Phase Different	A相、B相的位相差90° ±45° (1/4T±1/8T)		Different of Phase A and B is 90° ±45° (1/4T±1/8T)
输出产生 消失时间 Time of Output Occuring and Disappearing	1 μ s以下控制 输出电压: 5V 负载阻抗: 1k Ω 缆线长度: 50cm Controlling Output Voltage below 1 μ s:5v Load impedance: 1k Ω cable length:50cm	1 μ s以下 缆线长度: 50cm SINK电压: 10mA Below 1 μ s Cable Length: 50cm Sink Voltage: 10mA	0.1 μ s以下 缆线长度: 2m IO=-20mA、IS=20mA Below 1 μ s Cable Length: 2m IO=-20mA、IS=20mA