

ZD12-1500 DC Motor



GENERAL SITUATION:

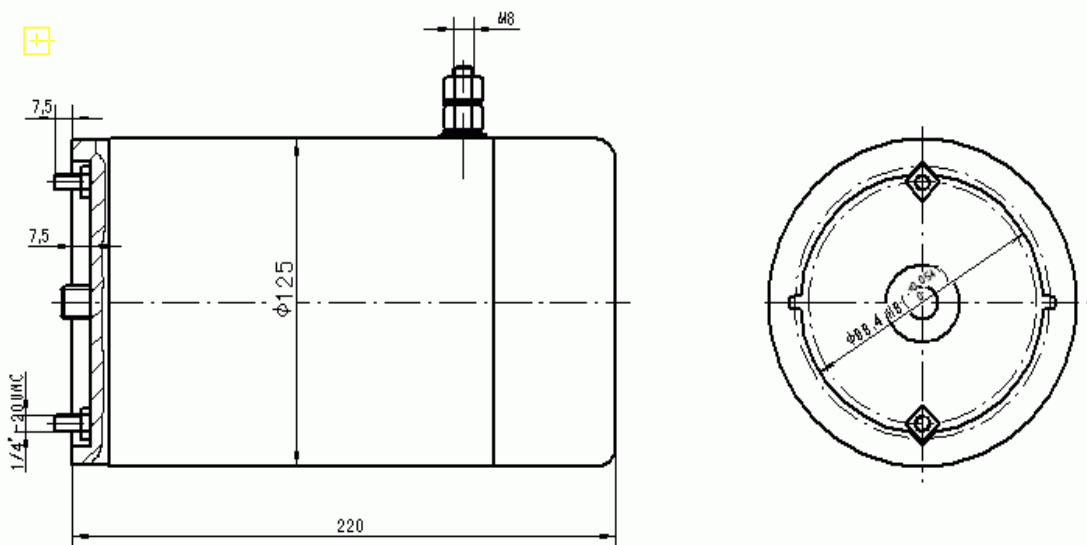
Hydraulic power motor

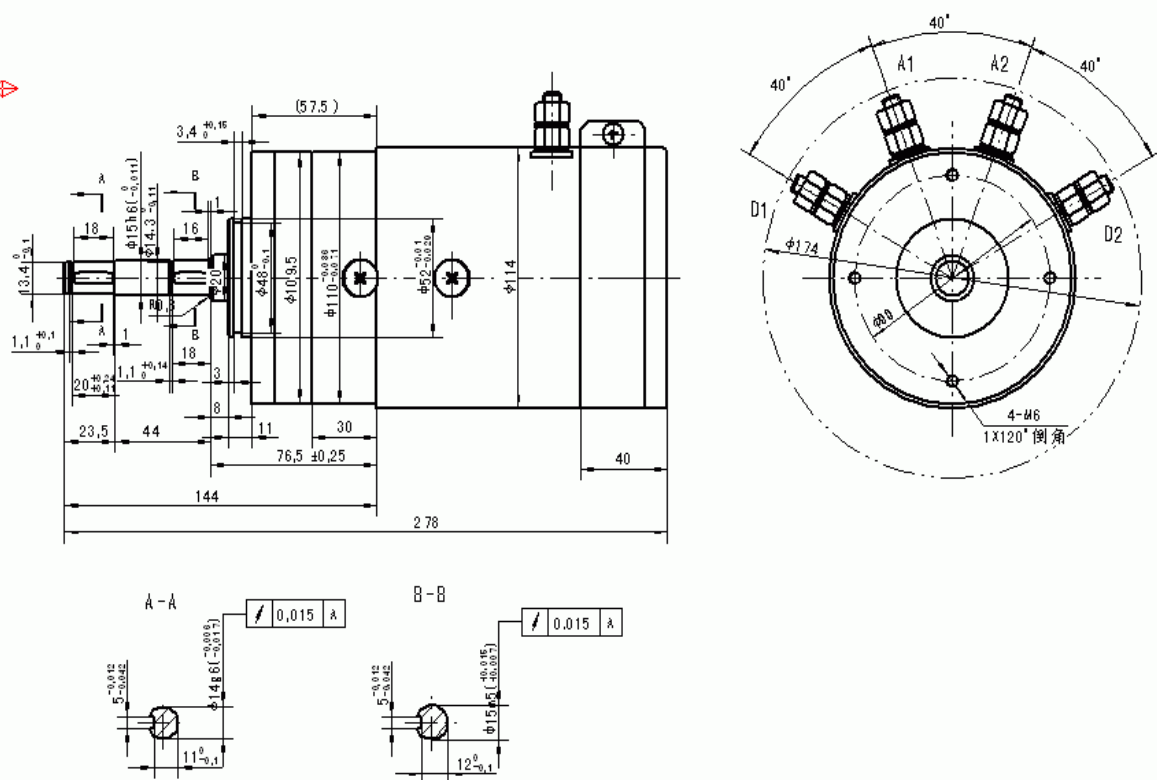
- 1、 Working environment temperature: $-40^{\circ}\text{C} - + 60^{\circ}\text{C}$.
- 2、 Working duty: S2-30min.
- 3、 Protection grade: IP54.
- 4、 Insulation class: F

TECHNICAL DATA

电压 (V) Volt (V)	转矩 (N.m) Torque (N.m)	转速 (RPM) Speed (RPM)	电流 (A) Current (A)
12V	0	≥ 4000	≤ 80
12V	6	2400	200

MOUTING AND OVERALL DIMENSIONS





ZD21-780 直流电动机

ZD21-780 DC Motor



概述 GENERAL SITUATION

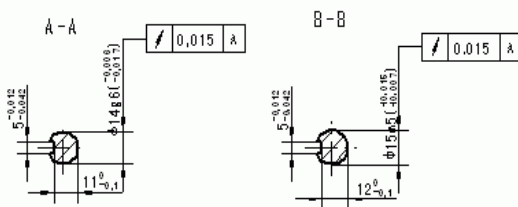
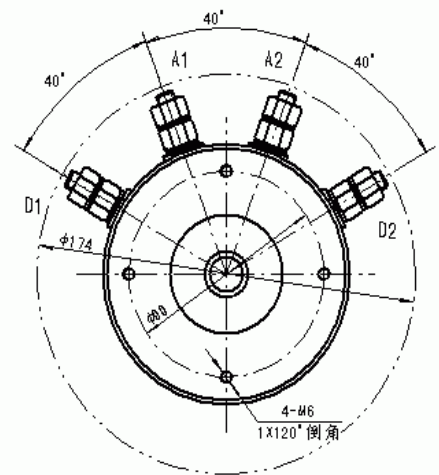
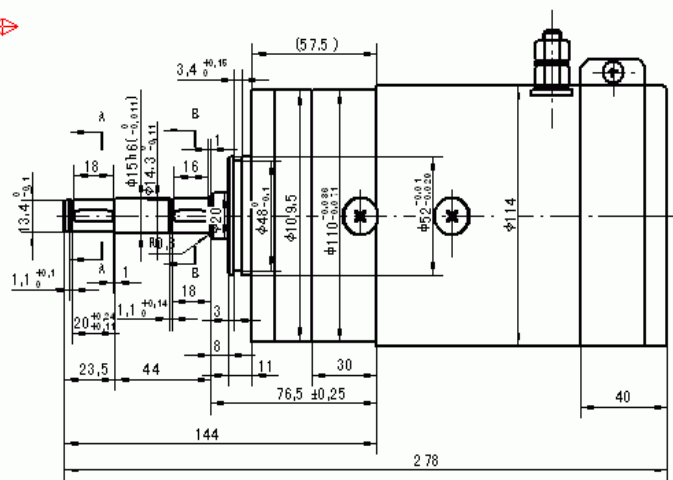
运输设备用电动机

DC motor for transportation equipment

- 1、工作环境温度：-40- +60℃ 。
- 2、工作制：S2-30min。
- 3、噪声：≤75dB。
- 4、防护等级：IP54。
- 5、绝缘等级：F 级。
- 1、 Working environment temperature:-40℃- + 60 ℃ .
- 2、 Working duty:S2-30min.
- 3、 Noise: ≤ 75 dB(A).
- 4、 Protection grade:IP54.
- 5、 Insulation class: F.

技术数据 TECHNICAL DATA

电压 (V) Volt(V)	转矩 (N.m) Torque (N.m)	转速 (RPM) Speed (RPM)	电流 (A) Current (A)
24V	0	7000	≤12
24V	3	≥2350	≤53



ZD21-900 直流电动机

ZD21-900 DC Motor



概述 GENERAL SITUATION

运输设备用电动机

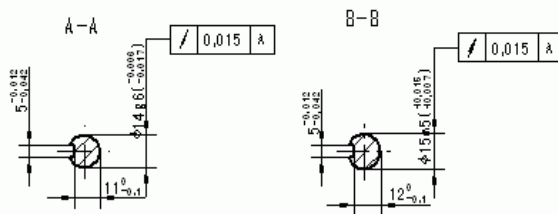
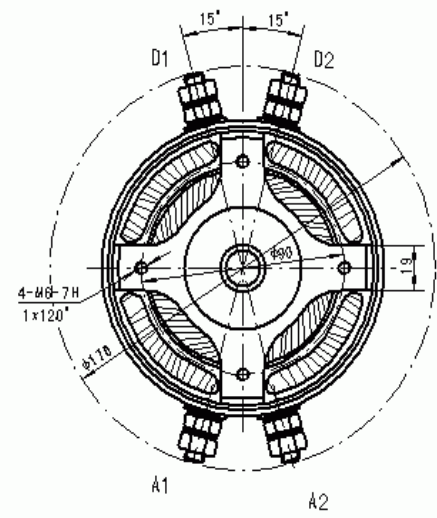
DC motor for transportation equipment

- 1、工作环境温度：-40- +60℃ 。
- 2、工作制：S2-30min。
- 3、噪声：≤75dB。
- 4、防护等级：IP25。
- 5、绝缘等级：F 级。
- 1、 Working environment temperature:-40℃- + 60 ℃ .
- 2、 Working duty:S2-30min.
- 3、 Noise: ≤ 75 dB(A).
- 4、 Protection grade:IP25.
- 5、 Insulation class: F.

技术数据 TECHNICAL DATA

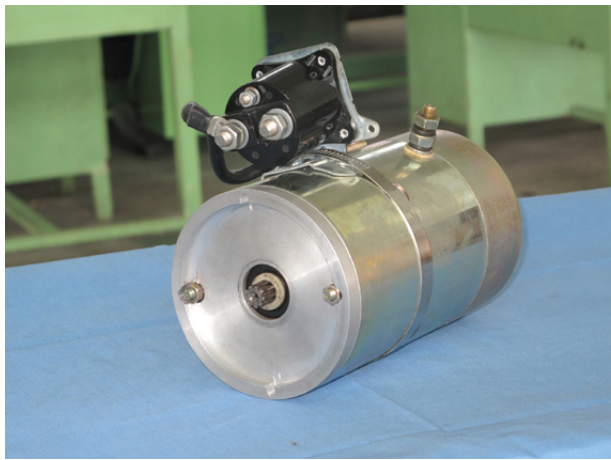
电压 (V) Volt(V)	转矩 (N.m) Torque (N.m)	转速 (RPM) Speed (RPM)	电流 (A) Current (A)
24V	0	7000	≤16
24V	3.6	2500	≤63

ROUTING AND OVERALL DIMENSIONS



ZD24-2200 直流电动机

ZD24-2200 DC Motor



概述 GENERAL SITUATION

液压动力用电动机

Hydraulic power motor

- 1、

工作环境温度：-40- +60℃ 。
- 2、

工作制：S2-10min。
- 3、

防护等级：IP54。
- 4、

绝缘等级：F 级。
- 1、

Working environment temperature:-40℃- + 60 ℃ .
- 2、

Working duty:S2-10min.
- 3、

Protection grade:IP54.
- 4、

Insulation class: F.

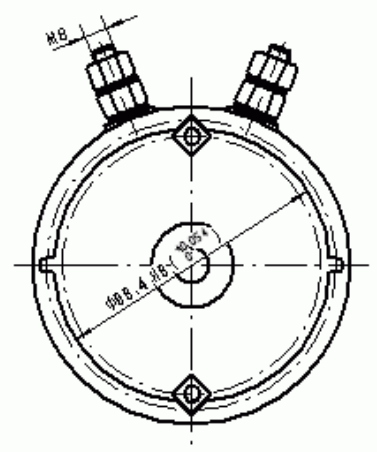
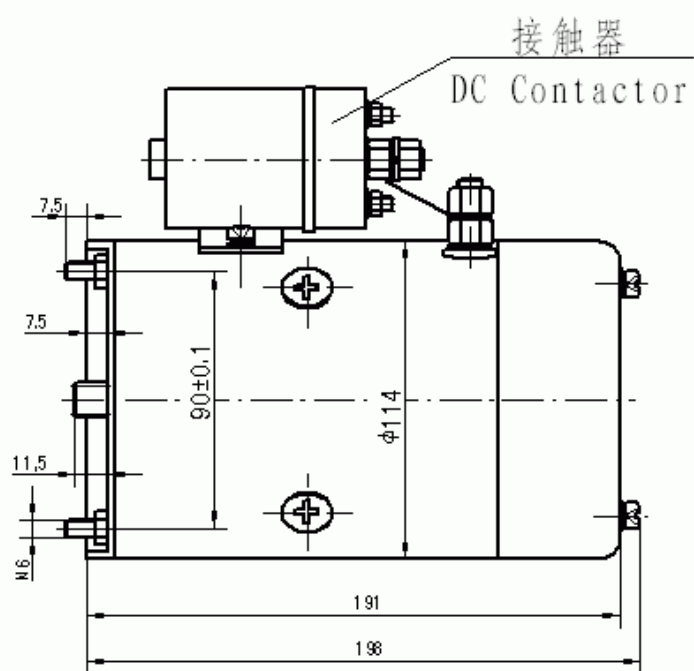
技术数据 TECHNICAL DATA

电压 (V) Volt (V)	转矩 (N.m) Torque (N.m)	转速 (RPM) Speed (RPM)	电流 (A) Current (A)
24V	0	≥4500	≤35
24V	8	2650	150

安装及外形尺寸 MOUTING AND OVERALL DIMENSIONS

平齿根花键参数 Spline parameter

齿数 Tooth profile	Z	9
模数 Module	m	1.27
压力角 Pressure angle	α	30
大径 Root dia	Dee	12.4
小径 Tip dia	Die	9.525



ZD212 直流电动机

ZD212 DC Motor



概述 GENERAL SITUATION

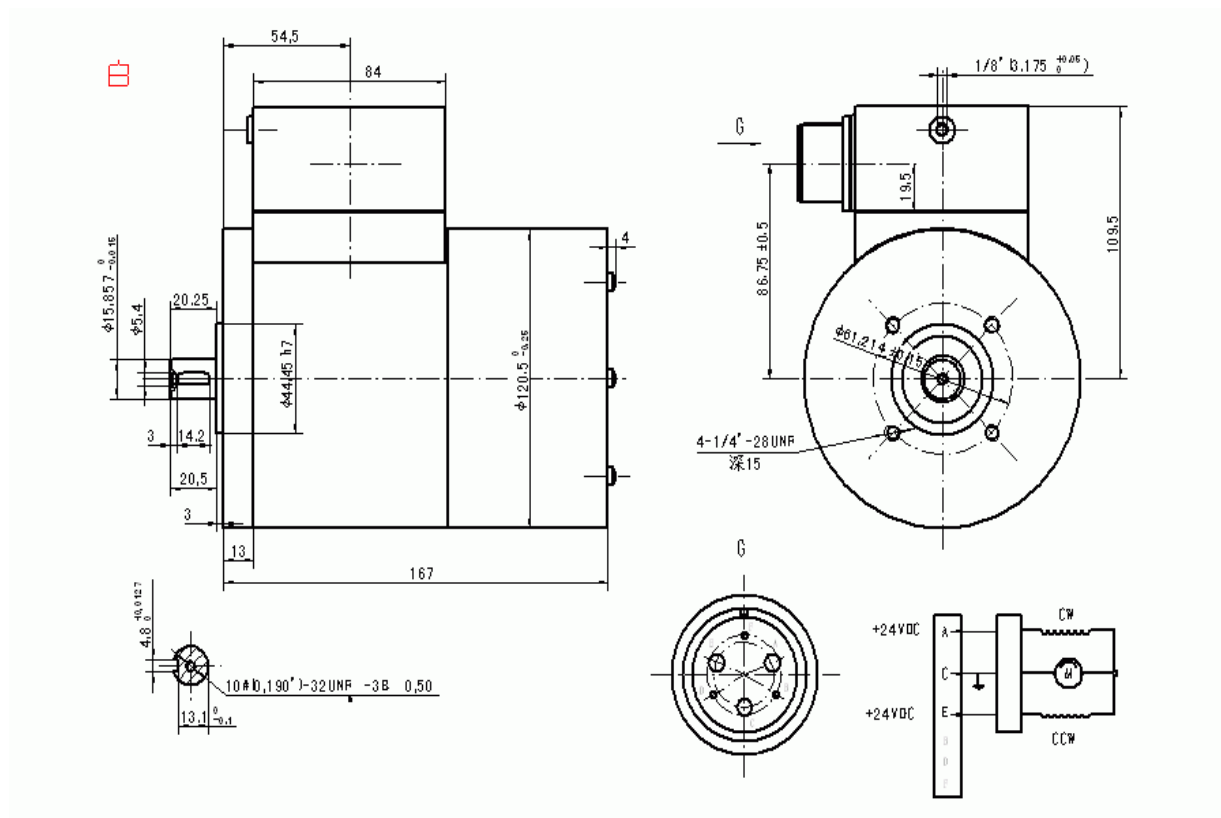
海上船舶用全封闭频繁启动的高温电动机
DC motor with frequent starting, high temp. and whole sealing for ship and boat

- 1、工作环境温度：-40- +180℃ 。
- 2、工作制：S3。
- 3、噪声：≤70dB。
- 4、防护等级：IP65。
- 5、绝缘等级：H 级。
- 1、 Working environment temperature:-40℃- + 180 ℃ .
- 2、 Working duty:S3.
- 3、 Noise: ≤ 70 dB(A).
- 4、 Protection grade:IP65.
- 5、 Insulation class: H.

技术数据 TECHNICAL DATA

电压 (V) Volt (V)	转矩 (N. m) Torque (N. m)	转速 (RPM) Speed (RPM)	电流 (A) Current (A)
24V	0	>5500	≤14 (+A)
24V	0	>5500	≤14 (+E)
24V	2. 11	2730±270	≤48
24V	1. 41	3000	≤40

安装及外形尺寸 MOUNTING AND OVERALL DIMENSIONS



ABS MOTOR

Model: ZDY1601

Voltage: 12V

No load current: $\leq 5.5A$

Load current: $\leq 12A$

No load speed: $\geq 6500R/MIN$

Load speed: ≥ 6000

Torque : $\geq 0.105Nm$

Application: Vehicle ABS system

Certification: ISO9001: 2000 TS16949

Model: ZDY1604/ZDY1604A

Voltage: 12V

Rated speed: 1900rpm

Torque: $\geq 0.7Nm$

Work duty: S6-40%

Protect class: IP55

Motor life: 0.1million KM

Application: Vehicle ABS system



STARTER MOTOR



QD124D



QD1225



QD124A



QD124C



QD265A

Model	rated power W	rated voltage V	rated speed r/min	battery AH	no load voltage V	no load current ≤A	no load speed ≥r/min	weight kg
QD124D	1500	12	1500	95	12	95	5000	11.5
QD1225	950	12	1500	60	11.3	60	6500	4.8
QD124A	1500	12	1400	100	12	95	5500	12.5
QD125C	1800	12	1400	105	12	95	5000	12
QD265	5000	24	1500	195	24	85	6500	18

VEHICLE GENERATOR



JF11C JF11D



JF1322



JF1522A



JF2723



JF2823



JFZ2822



JFZ2722

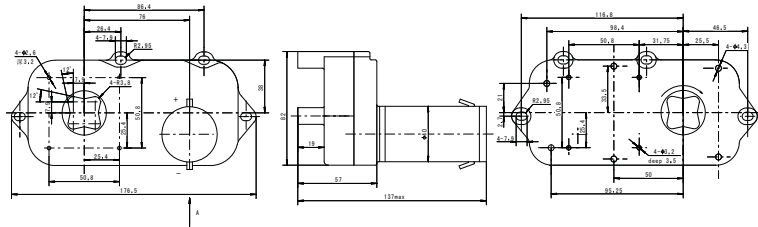


JFZ2823



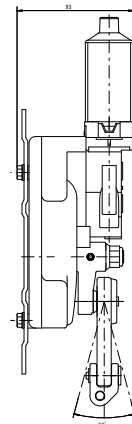
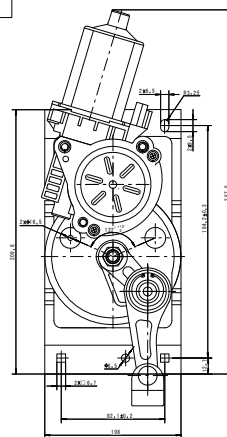
JFZ1625 JFZ1626

型号 Model	rated power W	rated voltage V	rated speed r/min	rated current A	no load speed ≤r/min	full load speed ≤r/min	max speed ≤r/min	control ler	weight kg
JF11C	350	14	3500	25	1000	2500	8000	FT60	4.5
JF11D	350	14	3500	25	1000	2500	8000	FT60	4.5
JF1322	500	14	3500	36	1000	2500	8000	FT60	4.5
JF1522A	500	14	3000	36	1100	2500	8000	FT61	5.3
JF2723	750	28	3000	30	1100	2500	8000	JFT106	6
JF2823	1000	28	3000	40	1100	2500	8000	—	6
JFZ2822	1260	28	3000	45	1100	2500	8000		5.9
JFZ2722	750	28	6000	27	1150	5000	11000		5.5
JFZ2823	1260	28	6000	45	1150	5000	1100		6
JFZ1625	910	14	—	65	—	—	—		—
JFZ1626	910	14	—	65	—	—	—		—



- NOTES:
 1. 12VOLT DC GEAR MOTOR
 2. OUTPUT SPEED 5r/min at TORQUE 50flbs
 3. CYCLE: 15-20s at 50flbs
 4. WORKING AMPERAGE RANGE: <15A
 5. REVERSIBLE CAPABILITY
 6. RATIO: 912:1

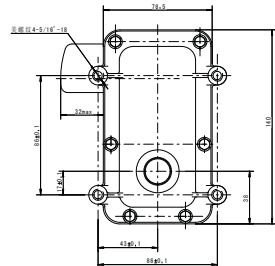
EM40ZY002	DEP. 300.1135
永磁直流减速电动机	
外形图	齿轮电动机设计口图



- 技术要求
 电机电压: DC 12V
 电机扭矩: 32N·m
 电机转速: 50r/min
 电 流: <15A
 环境温度: -40℃~+45℃

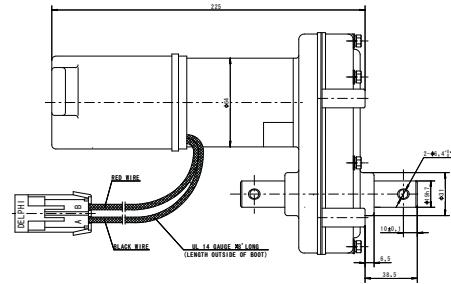
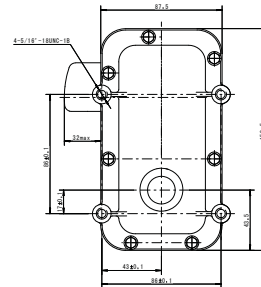
外形图

DEP. 300.1172
齿轮电动机设计口图



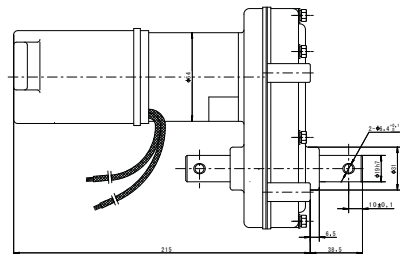
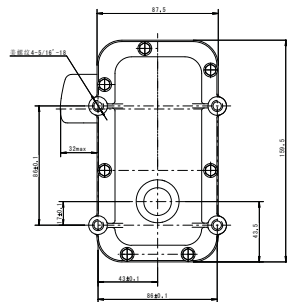
- NOTE:
 1. 12V DC GEARMOTOR
 2. RED WIRE LEAD +12V ON ROTATION
 VIEW FROM FACE MOUNT.
 3. 3000 IN-LBS Φ 15 AMPS MAX. AND
 15 RPM MIN.
 4. RATIO: 130:86:1.

64ZY001型	DEP. 300.959
直流永磁减速电动机	
外形图	齿轮电动机设计口图



- NOTE:
 1. 12V DC GEARMOTOR
 2. GEAR RATIO: 162:7 TO 1.
 3. RED WIRE LEAD +12V ON ROTATION
 VIEW FROM FACE MOUNT.
 4. 400 IN-LBS Φ 10 AMPS $\pm$ 1 AND
 11.5 RPM $\pm$ 1.
 5. 850 IN-LBS Φ 19 AMPS $\pm$ 1 AND
 8.5 RPM $\pm$ 1.

64ZY002	DEP. 300.1025
直流永磁减速电动机	
外形图	齿轮电动机设计口图



- NOTE:
- 1.12V DC GEARMOTOR.
 - 2.RED WIRE LEAD +12V CW ROTATION.
 - 3.400 IN-LBS $\pm$ 7.5 AMPS $\pm$ 1 AND 8.5 RPM $\pm$ 1.
 - 4.GEAR RATIO: 415:1.

EM64ZY008		OEP.300.1138
直流永磁减速电动机		
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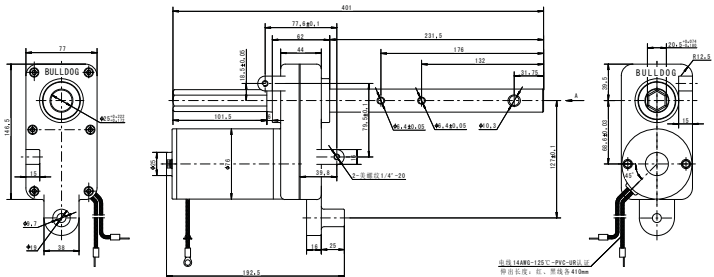
EM64ZY008

OEP.300.1138

直流永磁减速电动机

外形图

由博山电机集团出口基地



- NOTE:
- 1.12V DC GEARMOTOR.
 - 2.RED WIRE LEAD +12V CW ROTATION.
 - 3.15 FT-LBS $\pm$ 11 AMPS AND 32 RPM.
 - 4.RATIO: 99:93:1.

EM76ZY001		OEP.300.1101
直流永磁减速电动机		
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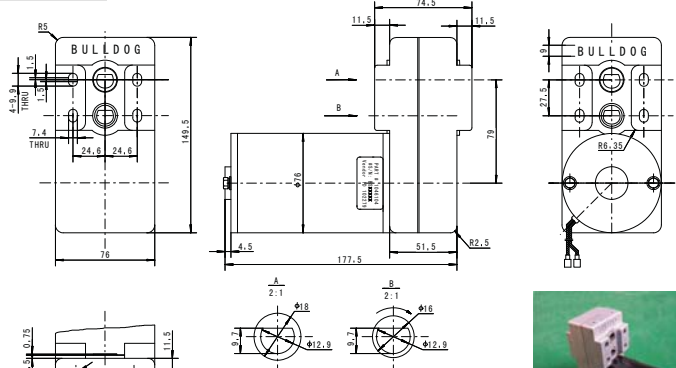
EM76ZY001

OEP.300.1101

直流永磁减速电动机

外形图

由博山电机集团出口基地



- NOTES:
- 1.12 VOLTS DC MOTOR.
 - 2.NO LOAD SPEED OF FAST DRIVE: 64RPM MIN.
 - 3.NO LOAD SPEED OF SLOW DRIVE: 32RPM MIN.
 - 4.1N INCH SLOW DRIVE: 45 FT-LBS TORQUE.
 - 5.SPEED: 20-250RPM, CURRENT: 3-4A.
 - 6.12-INCH #14 AND WIRE LEADS TERMINATED IN 0.25 INCH WIDTH FEMALE BLADE TERMINAL.
 - 7.RATIO: 54:15:1.

EM76ZY002		OEP.300.1134
直流永磁减速电动机		
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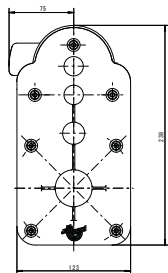
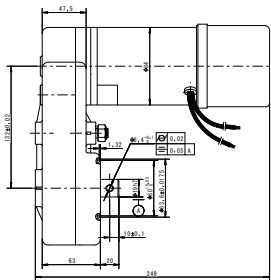
EM76ZY002

OEP.300.1134

直流永磁减速电动机

外形图

由博山电机集团出口基地



NOTE:

- 1.12V DC GEARMOTOR .
- 2.GEAR RATIO: 69.74 TO 1.
- 3.RED WIRE LEAD +12V CW ROTATION,
VIEW FROM FACE MOUNT.
- 4.400 IN-LBS ♦ 28 AMPS AND 35 RPM.
- 5.725 IN-LBS ♦ 46 AMPS AND 25 RPM.



				EM84ZYC03型		0EP. 300. 1050	
				直流永磁减速电动机			
				外形图		博众电机厂	

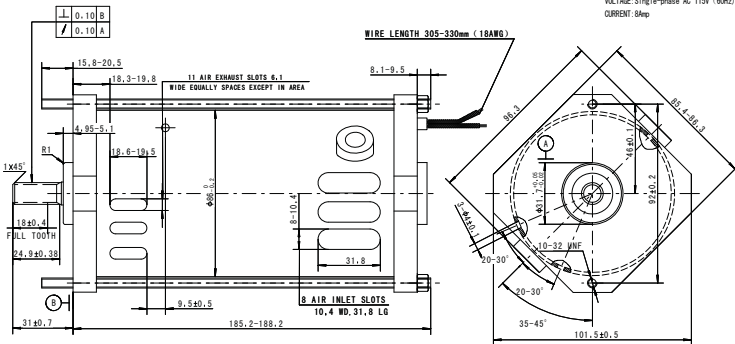
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0EP.300.105

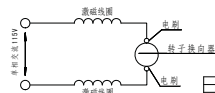
64 期

佛山白藤厂

0EP, 300, 1159



POWER: 0.73HP
SPEED: 11500RPM LOADED
VOLTAGE: Single-phase AC 115V (60Hz)
CURRENT: 8Amp

[illegible]

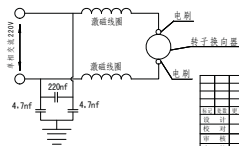
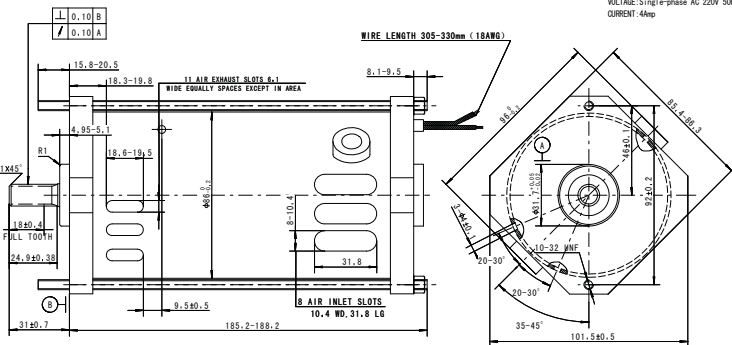
外形图
(CW179.259)

0000 0000 0000

0EP.300.1159				
附样标记	测量段	测量	比	
				1.

山博电机集团出口基地

8EP, 300, 1100



记录	数量	更改文件号	签字	
设计	计算		标准化	
校对				
审核			审定	
会签			日期	修改

外形图
(DC1415.259)

8EP.300.1100

图样标记	重量	数量	比例
			1:1
共 1 张		第 1 张	

山博电机集团出口基地

山博电机集团出口基

山博电机集团出口基

12



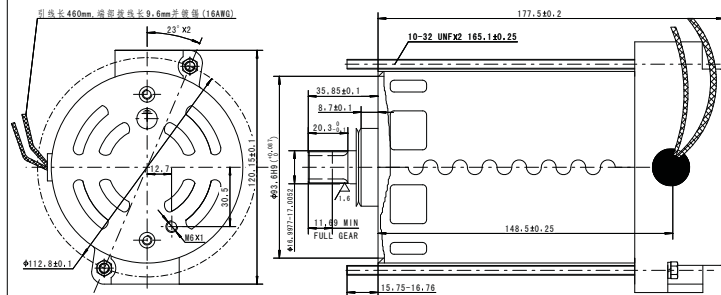
编制	校核	审核	签字	日期	
设计			标准化		
校对					
审核			审定		
会签			日期	08-12-17	

外形图
(DC8244.259)
(DC8245.259)

2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
					1:

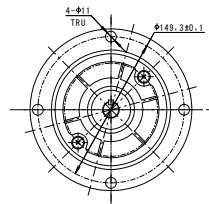
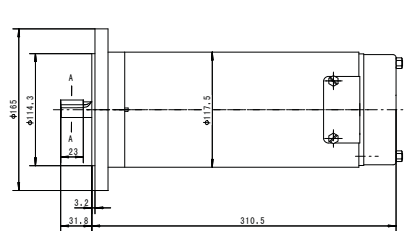
山博电机集团出口基地

12



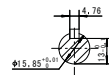
POWER: 1.7HP
SPEED: 11000RPM LOADED
VOLTAGE: Single-phase AC115V 220V (60Hz) F
CURRENT: 23Amps 11Amps

山博电机集团出口基地



A-A

2:1



额定参数

1. 电压: 115VDC
2. 功率: 860W
3. 转矩: 3.928Nm
4. 转速: 2100r/min
5. 电流: $\leq 11A$

EM117ZY51
直流永磁电动机

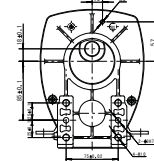
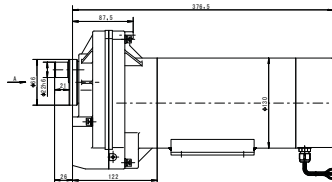
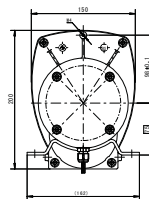
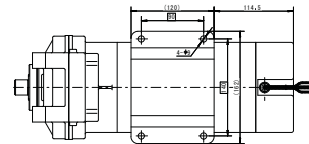
CP061-001

外形图

山博电机集团出口基地

NOTE:

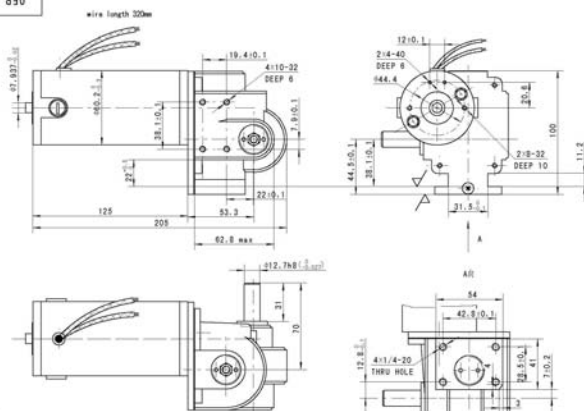
1. 90V DC GEARMOTOR .
2. RED WIRE LEAD +90V COW ROTATION .
- VIEW FROM DIRECTION A .
3. 115 N.m $\phi 20$ AMPS AND 80 RPM .
4. GEAR RATIO: 30:625 TO 1.



EM130ZY001型		OEP.300.1200	
直流永磁减速电动机		直流永磁减速电动机	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

外形图

山博电机集团出口基地



Data:

1. Voltage: VDC24
2. Speed: 6.5r/min, 12r/min, 32r/min
3. Ratio: 1080:1, 540:1, 200:1
4. Output Torque: 45inlbs



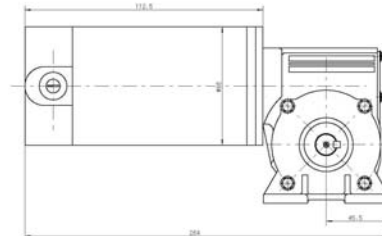
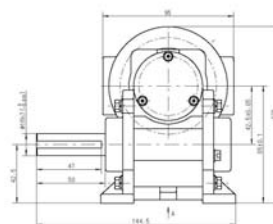
EM00ZYW01

OEP.300.1111

永磁直流减速电动机

外形图

山博电机集团出口基地



Technical information:

1. 90V DC GEARMOTOR .
2. No-load speed: 500r/min
3. Rated torque: 35in-lbs
4. Rated speed: 400r/min
5. Input power: 0.30hp
6. Gear ratio: 5:1
7. Noise level: <90dB



EM00ZYW02		OEP.300.1019	
直流永磁减速电动机		直流永磁减速电动机	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

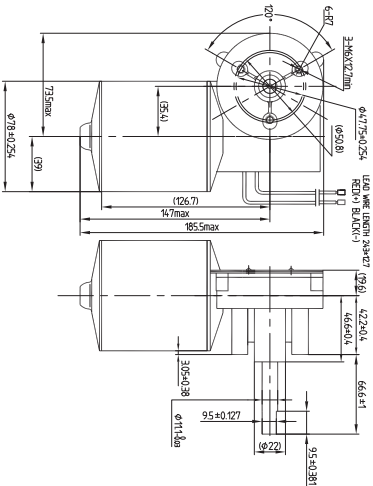
外形图

山博电机集团出口基地

19600EJ30

NOTE

- 1. ROTATION VIEWED FROM SWIFT END(CW/BLACK+, RED-/CCW/RED, BLACK-).
- 2. RATIO 35:1(2+222*70).
- 3. OUTPUT PARAMETER 2V/NO-LOAD 3A max NO-LOAD SPEED 100~200/r/min.
- 4. LOAD TORQUE 3mN/2V/CCW/CURRENT 854mA/SPEED 84~100/r/min.
CCW: CURRENT 854mA/SPEED 96/r/min.
- 5. SHAKE TORQUE 330mN.
- 6. SPKE-BACK TORQUE 3307mN.
- 7. NOISE :100DB max WITH A DISTANCE FROM MOTOR TO 0.8 METERS 304.6mm.
- 8. AXIAL ENPLAY OF OUTPUT SWIFT 0.08mm.



DC PM GEARMOTOR				OEP 300.961			
OUTLINE				BOSHAN MOTOR			
圖樣標記				圖樣標記			
S				S			
比例				比例			
1:1				1:1			

交流伺服电动机
直流无刷电动机
产品样本
AC SERVO MOTOR
DC BRUSHLESS MOTOR
CATALOGUE



Web: <http://shanboem.cn>
Mail: bluesky00070@yahoo.com

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Explanation of series ST AC Servo motor
2. ST 系列交流伺服电动机一般技术特性
General technical characteristics of series ST AC Servo motor
3. ST 交流伺服电动机命名原则
Naming principles of series ST AC Servo motor
4. EM60ZWX 直流无刷电动机外形安装图
Outline and mounting drawings of EM60ZWX DC Brushless motor
5. EM76ST 交流伺服电动机外形安装图
Outline and mounting drawings of EM76ST AC Servo motor
6. EM80ST 交流伺服电动机外形安装图
Outline and mounting drawings of EM80ST AC Servo motor
7. EM130ST 交流伺服电动机外形安装图
Outline and mounting drawings of EM130ST AC Servo motor
8. EM180ST 交流伺服电动机外形安装图
Outline and mounting drawings of EM180ST AC Servo motor
9. EM220ST 交流伺服电动机外形安装图
Outline and mounting drawings of EM220ST AC Servo motor
10. EMY180ST 交流伺服电动机外形安装图
Outline and mounting drawings of EMY180ST AC Servo motor for oil pump jack

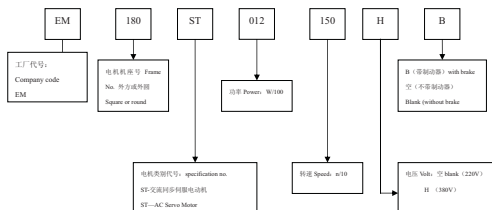
※ EM76ST/80ST/90ST/130ST/180ST/220ST/Y180ST 交流伺服电动机是我公司新近研制的高性能产品，可与专用/通用伺服控制器相配合，有如下特点：
EM76ST/80ST/90ST/130ST/180ST/220ST/Y180ST AC Servo motors are our new design with high performance products, may be fitted with general servo controllers, have the following characteristics:

- 系列化设计，规格齐全：具有多个机座号，几十种规格；
Serialization; complete specification; have many frame numbers, dozens of different specifications;
- 额定转速从 750r/min—4000r/min，额定转矩涵盖 0.5Nm—200Nm;
Rated speed from 750r/min—4000r/min; rated torque from 0.5Nm—200Nm;
- 转子采用高性能钕铁硼磁瓦，体积小，重量轻，温升低，过载能力强；
Rotor is used with high performance NdFeB magnet, having the characteristics of small volume, light weight, low temperature rise, strong over-load capacity;
- 电动机动态响应能力强，伺服性能好，转动惯量低；
Strong Dynamic response, good servo performance, low rotating inertia;
- 可根据客户要求，安装增量式旋转编码器、磁电式编码器；
Increment rotary encoder or magnetic rotary encoder may be attached according to the customer's requirement.

环境参数 environment parameters	温度 temperature -10℃~40℃ 湿度 humidity 20-80%
安装及防护 mounting & protection	绝缘等级 Insulation class: F 防护等级 Protection: IP55
耐压(视输入电压不同)Hi-pot	绝缘耐压 Insulation Hi-pot AC1500 1min 绝缘电阻 Insulation resistance DC1000V 10MΩ
传感器 Sensor	增量式编码器 Increment encoder, 标准 standard 磁电式编码器 magnetic encoder: 11 位 bits

※ 交流伺服电动机命名方法:

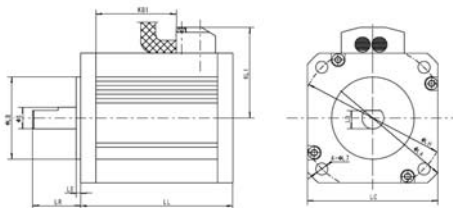
Naming principles of AC Servo motor



如: EM180ST045150H 表示: 额定功率为: 4.5KW, 额定转速为: 1500rpm, 输入电压为: 380VAC, 不带失电制动器的交流伺服电动机。
For example, EM180ST045150H: Rated power 4.5KW, Rated speed: 1500rpm; Input voltage: 380VAC, without brake

※ EM60 直流无刷电动机外形安装图

Outline and mounting drawings of EM60ZWX DC Brushless motor



外形尺寸 mm(注: 以下尺寸均为不带失电制动器的尺寸)

Outline dimension mm (Note: the following dimensions are not included the brake dimensions)

型 号 model no.	LL	LA	LB	LC	LD	LE	LH	LR	KB1	KL1	S	L7
EM60ZWX01	73	78	38	60	11	1.5	66.5	33.5	46.5	42	12	5.5

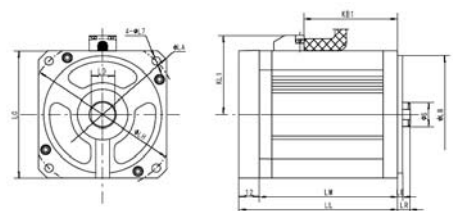
规格一览 Technical specification:

型 号 model no	电压 Volt (V)	功率 Power (W)	转速 Speed (rpm)	转矩 Torque (Nm)	最大转矩 Max torque	额定电流 Rated Current	瞬间电流 Moment current
EM60ZWX01	24	70	7000	0.1	0.4	3.5	11

可以做成 55 圆机座或 57 方机座的不同电压等级的直流无刷电机
DC BLDC motor may be made with round frame no. 55 and different voltage

※ EM76ST 交流伺服电动机外形安装图

Outline and mounting drawings of EM76ST AC Servo motor



外形尺寸 mm(注：以下尺寸均为不带是制动器的尺寸)

Outline dimension mm (Note: the following dimensions are not included the brake dimensions)

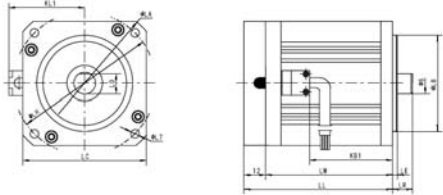
型 号 model no.	LL	LA	LB	LC	LD	LE	LH	LM	LR	KB1	KL1	S	L7
EM76ST002300	73	100	70	76	13	3	90	61	7.5	44	46	14	5.5
EM76ST004300	94	100	70	76	13	3	90	82	7.5	65	46	14	5.5
EM76ST008300	136	100	70	76	13	3	90	124	7.5	107	46	12	5.5

规格一览 Technical specification:

型 号 model no	电压 Volt (V)	功率 Power (W)	转速 Speed (rpm)	转矩 Torque (Nm)	最大转矩 Max torque	额定电流 Rated Current	瞬间电流 Moment current	转矩常数 Torque constant
EM76ST002400	220	200	4000	0.48	1.44	1.06	3.12	0.157
EM76ST004400	220	400	4000	0.96	2.88	2.12	6.36	0.313
EM76ST008400	220	800	4000	1.79	5.73	3.98	11.94	0.626

EM80ST 交流伺服电动机外形安装图

Outline and mounting drawings of EM80ST AC Servo motor



外形尺寸 mm(注：以下尺寸均为不带是制动器的尺寸)

Outline dimension mm (Note: the following dimensions are not included the brake dimensions)

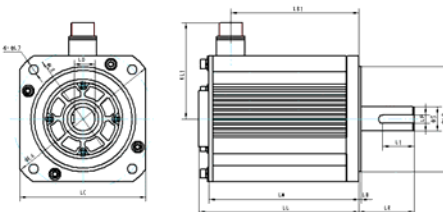
型 号 model no.	LL	LA	LB	LC	LD	LE	LH	LM	LR	KB1	KL1	S	L7
EM80ST002300	63	104	62	80	13	3	92	51	13	34.5	49	14	5.5
EM80ST004300	94	104	62	80	13	3	92	82	13	55.5	49	14	5.5
EM80ST008300	136	104	62	80	13	3	92	124	13	97.5	49	14	5.5

规格一览 Technical specification:

型 号 model no	电压 Volt (V)	功率 Power (W)	转速 Speed (rpm)	转矩 Torque (Nm)	最大转矩 Max torque	额定电流 Rated Current	瞬间电流 Moment current	转矩常数 Torque constant
EM130ST005075	220	500	750	6.37	19.1	1.59	4.77	4.00
EM130ST009075	220	900	750	11.46	34.4	2.86	8.59	4.00
EM130ST006100	220	600	1000	5.73	17.19	1.9	5.73	3.00
EM130ST009100	220	900	1000	8.6	25.7	2.86	8.59	3.00
EM130ST013150	220	1300	1500	8.28	24.8	4.14	14.4	2.00
EM130ST009200	220	900	2000	4.3	12.8	2.86	8.59	1.5
EM130ST013200	220	1300	2000	6.2	19.6	4.1	12.4	1.5
EM130ST013300	220	1300	3000	4.14	12.4	4.14	12.4	1.00
EM130ST05022030	220	1500	3000	5.0		30		

※ EM180ST 交流伺服电动机外形安装图

Outline and mounting drawings of EM180ST AC Servo motor



外形尺寸 mm(注：以下尺寸均为不带是制动器的尺寸)

Outline dimension mm (Note: the following dimensions are not included the brake dimensions)

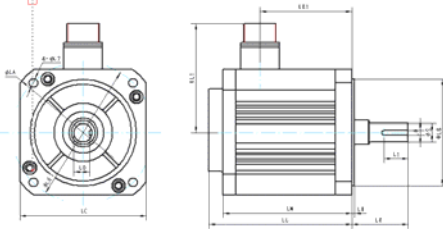
型 号 Model no.	LL	LA	LB	LC	LD	LE	LF	LH	LM	LR	KB1	KL1	S	L7
EM180ST012075	200	230	158	180	31	3.2	10	200	185	79	154	140	35	13.5
EM180ST020075	269	230	158	180	31	3.2	10	200	254	79	223	140	35	13.5
EM180ST030075	356	230	158	180	37	3.2	12	200	341	113	310	140	42	13.5
EM180ST012100	174	230	158	180	31	3.2	10	200	159	79	128	140	35	13.5
EM180ST020100	226	230	158	180	31	3.2	10	200	211	79	180	140	35	13.5
EM180ST030100	291	230	158	180	31	3.2	10	200	276	79	245	140	35	13.5
EM180ST020150	183	230	158	180	31	3.2	10	200	168	79	137	140	35	13.5
EM180ST030150	226	230	158	180	31	3.2	10	200	211	79	180	140	35	13.5

规格一览 Technical specification:

型 号 model no	电压 Volt (V)	功率 Power (W)	转速 Speed (rpm)	转矩 Torque (Nm)	最大转矩 Max torque	额定电流 Rated Current	瞬间电流 Moment current	转矩常数 Torque constant
EM80ST002300	220	200	4000	0.48	1.44	1.06	3.12	0.157
EM80ST004300	220	400	4000	0.96	2.88	2.12	6.36	0.313
EM80ST008300	220	800	4000	1.79	5.73	3.98	11.94	0.626

※ EM130ST 交流伺服电动机外形安装图

Outline and mounting drawings of EM130ST AC Servo motor



外形尺寸 mm(注：以下尺寸均为不带是制动器的尺寸)

Outline dimension mm (Note: the following dimensions are not included the brake dimensions)

型 号 model no.	LL	LA	LB	LC	LD	LE	LF	LH	LM	LR	KB1	KL1	S	L7
EM130ST005075	128	165	110	130	16	3	5	145	113	58	84	109	19	9
EM130ST009075	187	165	110	130	16	3	5	145	172	58	143	109	19	9
EM130ST006100	121	165	110	130	16	3	5	145	106	58	77	109	19	9
EM130ST009100	154	165	110	130	19	3	6	145	139	58	110	109	22	9
EM130ST013150	150	165	110	130	16	3	5	145	135	58	106	109	19	9
EM130ST009200	105	165	110	130	16	3	5	145	90	58	61	109	19	9
EM130ST013200	127	165	110	130	16	3	5	145	112	58	83	109	19	9
EM130ST013300	103	165	110	130	16	3	5	145	88	58	59	109	19	9

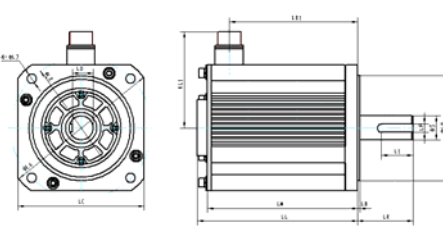
EM180ST055150	334	230	158	180	37	3.2	12	200	319	113	288	140	42	13.5
EM180ST020200	161	230	158	180	31	3.2	10	200	146	79	115	140	35	13.5
EM180ST030200	194	230	158	180	31	3.2	10	200	179	79	148	140	35	13.5
EM180ST055200	275	230	158	180	31	3.2	10	200	260	79	229	140	35	13.5
EM180ST055300	215	230	158	180	31	3.2	10	200	200	79	159	140	35	13.5
EM180ST075300	259	230	158	180	31	3.2	10	200	244	79	213	140	35	13.5

规格一览 Technical specification:

型 号 model no	电压 Volt (V)	功率 Power (W)	转速 Speed (rpm)	转矩 Torque (Nm)	最大转矩 Max torque	额定电流 Rated Current	瞬间电流 Moment current	转矩常数 Torque constant
EM180ST012075	380	1200	750	15.28	45.8	3.17	9.5	4.8
EM180ST020075	380	2000	750	25.47	76.4	5.28	15.8	4.8
EM180ST030075	380	3000	750	38.2	144.6	7.92	23.76	4.8
EM180ST012100	380	1200	1000	11.46	34.38	3.17	9.50	3.6
EM180ST020100	380	2000	1000	19.1	57.3	5.28	15.8	3.6
EM180ST030100	380	3000	1000	28.65	85.95	7.92	23.76	3.6
EM180ST020150	380	2000	1500	8.49	25.47	5.28	15.8	1.6
EM180ST030150	380	3000	1500	12.73	38.19	7.92	23.76	1.6
EM180ST055150	380	5500	1500	28.01	84.03	14.52	43.56	1.93
EM180ST020200	380	2000	2000	9.55	28.65	5.28	15.8	1.81
EM180ST030200	380	3000	2000	14.33	43.3	7.92	23.76	1.81
EM180ST055200	380	5500	2000	26.26	78.78	14.52	43.56	1.81
EM180ST055300	380	5500	3000	17.51	52.53	14.52	43.56	1.21
7EM180ST075300	380	7500	3000	23.88	71.64	19.8	59.4	1.21

EM220ST 交流伺服电动机外形安装图

Outline and mounting drawings of EM220ST AC Servo motor



外形尺寸 mm(注：以下尺寸均为不带是制动器的尺寸)

Outline dimension mm (Note: the following dimensions are not included the brake dimensions)

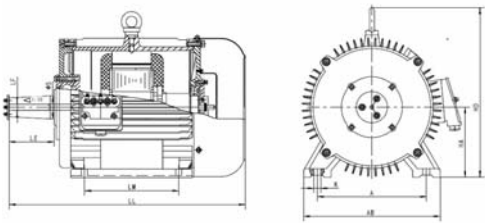
型号 model no.	LL	LA	LB	LC	LD	LE	LF	LH	LM	LR	KB1	KL1	S	L7
EM220S05100	270	270	200	220	37	4	10	200	246	80	202	170	42	13.5
EM180ST075100	310	270	200	220	37	4	12	200	286	80	248	170	42	13.5
EM220ST110100	370	270	200	220	37	4	12	200	346	80	308	170	42	13.5
EM220ST055150	230	270	200	220	33	4	10	200	206	80	168	170	38	13.5
EM220ST075150	270	270	200	220	37	4	12	200	246	80	202	170	42	13.5
EM220ST110150	310	270	200	220	37	4	12	200	286	80	248	170	42	13.5
EM180ST150150	370	270	200	220	37	4	12	200	346	80	308	170	42	13.5
EM220ST110300	230	270	200	220	33	4	10	200	206	80	168	170	38	13.5
EM220ST150300	270	270	200	220	37	4	12	200	246	80	202	170	42	13.5
EM220ST185300	310	270	200	220	37	4	12	200	286	80	248	170	42	13.5
EM220ST220300	340	270	200	220	37	4	12	200	316	80	278	170	42	13.5
EM220ST270300	370	270	200	220	37	4	12	200	346	80	308	170	42	13.5

规格一览 Technical specification:

型号 model no	电压 Volt (V)	功率 Power (W)	转速 Speed (rpm)	转矩 Torque (Nm)	最大转矩 Max torque	额定电流 Rated Current	瞬间电流 Moment current	转矩常数 Torque constant
EM220S055100	380	5.5	1000	52.5	150	14.5	43.5	3.6
EM180ST075100	380	7.5	1000	71.6	210	19.8	59.4	3.6
EM220ST110100	380	11	1000	105	300	29.0	87.0	3.6
EM220S055150	380	5.5	1500	35	105	14.5	43.5	2.4
EM220ST075150	380	7.5	1500	47.8	140	19.8	59.4	2.4
EM220ST110150	380	11	1500	70	210	29.0	87.0	2.4
EM180ST150150	380	15	1500	95.2	280	39.6	118.8	2.4
EM220ST110300	380	11	3000	35	105	29.0	87.0	1.2
EM220ST150300	380	15	3000	47.8	140	39.6	118.8	1.2
EM220ST185300	380	18.5	3000	58.6	170	48.8	146.4	1.2
EM220ST220300	380	22	3000	70	210	58	174	1.2
EM220ST270300	380	27	3000	86	260	97.6	292.8	1.2

EMY180ST 油田用交流伺服电动机外形安装图

Outline and mounting drawings of EMY180ST AC Servo motor for oil pump jack on oil field



外形尺寸 mm(注：以下尺寸均为不带是制动器的尺寸)

Outline dimension mm (Note: the following dimensions are not included the brake dimensions)

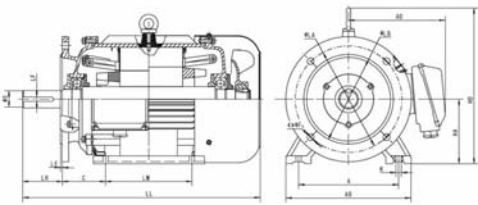
型号 model no.	LL	HA	HD	A	AB	LE	LF	LM			S	K
EMY180ST075075	640	180	460	279	355	110	16	241			59	15
EMY180ST110075	640	180	460	279	355	110	16	241			59	15
EMY180ST150075	640	180	460	279	355	110	16	241			59	15
EMY180ST185075	680	180	460	279	355	110	16	279			59	15
EMY180ST110100	640	180	460	279	355	110	16	241			59	15
EMY180ST150100	640	180	460	279	355	110	16	241			59	15
EMY180ST185100	640	180	460	279	355	110	16	241			59	15
EMY180ST220100	640	180	460	279	355	110	16	241			59	15
EMY180ST270100	680	180	460	279	355	110	16	279			59	15

规格一览 Technical specification:

型号 model no	电压 Volt (V)	功率 Power (W)	转速 Speed (rpm)	转矩 Torque (Nm)	最大转矩 Max torque	额定电流 Rated Current	瞬间电流 Moment current	转矩常数 Torque constant
EMY180ST075075	380	7.5	750	95.5	250	19.8	49.5	4.8
EMY180ST110075	380	11	750	140	350	29	72.5	4.8
EMY180ST150075	380	15	750	190	475	39.6	99	4.8
EMY180ST185075	380	18.5	750	235	587	48.3	120.5	4.8
EMY180ST110100	380	11	1000	105	260	29	72.5	3.6
EMY180ST150100	380	15	1000	143	358	39.6	99	3.6
EMY180ST185100	380	18.5	1000	177	442	48.3	120.5	3.6
EMY180ST220100	380	22	1000	210	525	58	145	3.6
EMY180ST270100	380	27	1000	258	645	71.2	178	3.6

※ EMY180ST 注塑机用交流伺服电动机外形安装图

Outline and mounting drawings of EMY180ST AC Servo motor for plastic injection machine



外形尺寸 mm(注：以下尺寸均为不带是制动器的尺寸)

Outline dimension mm (Note: the following dimensions are not included the brake dimensions)

型号	LL	HA	C	A	AB	LE	LF	LA	LM	LB	AD	F	S	K
EMY180ST110100	670	180	121	279	355	5	14	300	241	250	285	19	48	15
EMY180ST150100	670	180	121	279	355	5	14	300	241	250	285	19	48	15
EMY180ST185100	670	180	121	279	355	5	14	300	241	250	285	19	48	15
EMY180ST220100	670	180	121	279	355	5	14	300	241	250	285	19	48	15
EMY180ST270100	710	180	121	279	355	5	14	300	279	250	285	19	48	15
EMY180ST150150	670	180	121	279	355	5	14	300	241	250	285	19	48	15
EMY180ST185150	670	180	121	279	355	5	14	300	241	250	285	19	48	15
EMY180ST220150	670	180	121	279	355	5	14	300	241	250	285	19	48	15
EMY180ST270150	670	180	121	279	355	5	14	300	241	250	285	19	48	15
EMY180ST300150	670	180	121	279	355	5	14	300	241	250	285	19	48	15
EMY180ST370150	710	180	121	279	355	5	14	300	279	250	285	19	48	15

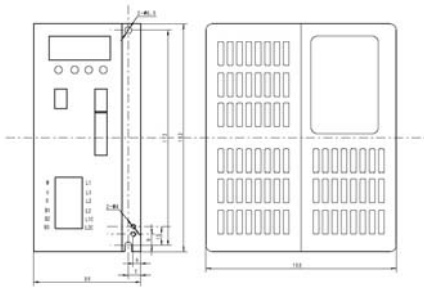
规格一览 Technical specification:

型号 model no	电压 Volt (V)	功率 Power (W)	转速 Speed (rpm)	转矩 Torque (Nm)	最大转矩 Max torque	额定电流 Rated Current	瞬间电流 Moment current	转矩常数 Torque constant
EMY180ST110100	380	11	1000	105	260	29	72.5	3.6
EMY180ST150100	380	15	1000	143	358	39.6	99	3.6
EMY180ST185100	380	18.5	1000	177	442	48.3	120.5	3.6
EMY180ST220100	380	22	1000	210	525	58	145	3.6
EMY180ST270100	380	27	1000	258	645	71.2	178	3.6
EMY180ST150150	380	15	1500	95	238	39.6	99	2.4
EMY180ST185150	380	18.5	1500	115	288	48.3	120.5	2.4
EMY180ST220150	380	22	1500	140	350	58	145	2.4

EMY180ST270150	380	27	1500	172	430	71.2	178	2.4
EMY180ST300150	380	30	1500	192	480	79.2	198	2.4
EMY180ST370150	380	37	1500	235	587	96.6	241	2.4

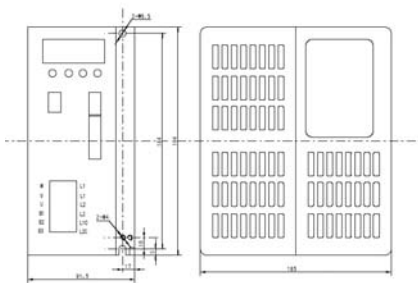
※ 控制器参数:

Controller specification:



500W 以下安装图

Mounting dimension for below 500W



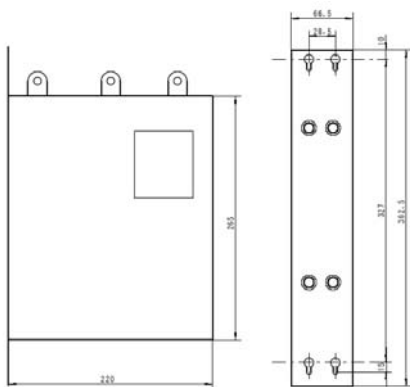
550W-1500W 安装图

Mounting dimension for below 550-1500W

单相 220VAC 系列 Series 220VAC Single phase

输出功率 KW Output power	0.2	0.4	0.75	1.0	1.5
连续电流 Arms Constant current	1.7	2.5	2.1	6.8	10.5
瞬间电流 Arms Moment current	5.1	7.5	12.8	17	26.3
输入电源 VAC Input power	220±15%， 50/60Hz				
控制电源 VAC Control power	220±15%， 50/60Hz				
使用 / 存储温度 Application/storage temperature	-20-40℃ / -20-60℃				
使用、存储湿度 Application/storage humidity	90%RH 以下（不得结露） Below 90%RH (No dew)				
冷却方式 Cooling	自冷 Self-cooling	风冷 Wind cooling			
控制方式 Control method	单相全波整流、IGBT PWM 控制、正弦波电流驱动方式 Single phase full wave rectify, IGBT PWM control, sine wave current driving				
控制模式 Control mode	转矩/速度/位置控制 Torque/Speed/Position				
再生处理	内置再生电阻（可外接）				

缝纫机专用控制器
Special controller for sewing machine



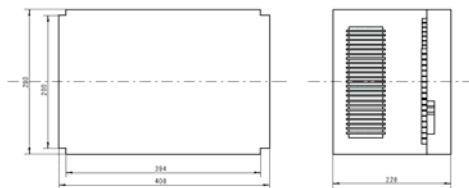
400W 专用控制器安装图

Mounting dimension for below 400w-

输出功率 KW Output power	0.4
最大转矩 Nm Max torque	3.6
最高转速 Max speed	6000rpm
输入电源 VAC Input power	175-265VAC, 50/60Hz
使用 / 存储温度 Application/storage temperature	-20-40℃/-20-60℃
使用、存储湿度 Application/storage humidity	90%RH 以下 (不得结露) Below 90%RH (No dew)

Reclamation process	In built reclamation resistance (optional connected from outer)
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三相 380VAC 系列
Series 380VAC three phase



6KW-15KW 安装图

Mounting dimension for below 6KW-15KW

输出功率 KW Output power	1.5	2.0	3.0	5.0	7.0	11.0	15.0
连续电流 Arms Constant current	5.7	8.8	12.5	19.6	26.7	33	39.1
瞬间电流 Arms Moment current	14.7	21	29.4	44.1	68.3	78.8	8.9
输入电源 VAC Input power	381 ± 15%, 50/60Hz						
控制电源 VAC Control power	380 ± 15%, 50/60Hz						
使用 / 存储温度 Application/storage temperature	-20-40℃/-20-60℃						
使用、存储湿度 Application/storage humidity	90%RH 以下 (不得结露) Below 90%RH (No dew)						
冷却方式 Cooling	风冷 Wind cooling						
控制方式 Control method	三相全波整流、IGBT PWM 控制、正弦波电流驱动方式 Three phase full wave rectify, IGBT PWM control, sine wave current driving						
控制模式 Control mode	转矩/速度/位置控制 Torque/Speed/Position						
再生处理	内置再生电阻 (可外接)						
Reclamation process	In built reclamation resistance (optional connected from outer)						

冷却方式 Cooling	自冷 Self cooling
控制方式 Control method	单相全波整流、IGBT PWM 控制、正弦波电流驱动方式 Single phase full wave rectify, IGBT PWM control, sine wave current driving
过载保护 Over-load protection	过流、过压保护 Over-current, over-voltage protection
再生处理	内置再生电阻
Reclamation process	In built reclamation resistance

Many thanks your time!

Contact: Judy Guo (export department)

Tel:86.533.2641220 Fax:86.533.4180974

Email:bluesky00070@yahoo.com

Skype:bluesky000701



技术数据

Technical Specifications

型号 Type	额定功率 Rated output kW	满载时 Full load				堵转电流 额定电流 Locked current Rated current	堵转转矩 额定转矩 Locked torque Rated torque	最大转矩 额定转矩 Max torque Rated torque	转动惯量 Moment of inertia kgm ²	净重 Net Weight (B3) kg
		转速 Speed r/min	电流 Current A	效率 Eff %	功率因数 Power factor (cos φ)					
Y2-801-2	0.75	2830	1.83	75	0.83	6.1	2.2	2.3	0.00075	16
Y2-802-2	1.1	2830	2.55	77	0.84	7.0	2.2	2.3	0.00090	17
Y2-90S-2	1.5	2840	3.40	79	0.84	7.0	2.2	2.3	0.0012	22
Y2-90L-2	2.2	2840	4.8	81	0.85	7.0	2.2	2.3	0.0014	25
Y2-100L-2	3.0	2860	6.31	83	0.87	7.5	2.2	2.3	0.0029	33
Y2-112M-2	4.0	2890	8.23	85	0.88	7.5	2.2	2.3	0.0055	45
Y2-132S1-2	5.5	2900	11.18	86	0.88	7.5	2.2	2.3	0.0109	64
Y2-132S2-2	7.5	2900	15.06	87	0.88	7.5	2.2	2.3	0.0126	70
Y2-160M1-2	11	2930	21.35	88	0.89	7.5	2.2	2.3	0.0377	117
Y2-160M2-2	15	2930	28.78	89	0.89	7.5	2.2	2.3	0.0449	125
Y2-160L-2	18.5	2930	34.72	90	0.9	7.5	2.2	2.3	0.0550	148
Y2-180M-2	22	2940	41.28	90	0.9	7.5	2.0	2.3	0.075	180
Y2-200L1-2	30	2950	55.37	91.2	0.9	7.5	2.0	2.3	0.124	240
Y2-200L2-2	37	2950	67.92	92	0.9	7.5	2.0	2.3	0.139	255
Y2-225M-2	45	2970	82.16	92.3	0.9	7.5	2.0	2.3	0.233	309
Y2-250M-2	55	2970	100.1	92.5	0.9	7.5	2.0	2.3	0.312	403
Y2-280S-2	75	2970	134	93	0.9	7.5	2.0	2.3	0.597	544
Y2-280M-2	90	2970	160.27	93.8	0.91	7.5	2.0	2.3	0.675	620
Y2-315S-2	110	2980	195.46	94	0.91	7.1	1.8	2.2	1.18	980
Y2-315M-2	132	2980	233.3	94.5	0.91	7.1	1.8	2.2	1.82	1080
Y2-315L1-2	160	2980	279.44	94.6	0.92	7.1	1.8	2.2	2.08	1160
Y2-315L2-2	200	2980	347.83	94.8	0.92	7.1	1.8	2.2	2.41	1190
Y2-355M-2	250	2980	432.5	95.3	0.92	7.1	1.6	2.2	3.56	1750
Y2-355L-2	315	2980	543.25	95.6	0.92	7.1	1.6	2.2	4.16	1850
Y2-801-4	0.55	1390	1.57	71	0.75	5.2	2.4	2.3	0.0018	17
Y2-802-4	0.75	1390	2.03	73	0.76	6.0	2.3	2.3	0.0021	18
Y2-90S-4	1.1	1400	2.82	75	0.77	6.0	2.3	2.3	0.0021	22
Y2-90L-4	1.5	1400	3.7	78	0.79	6.0	2.3	2.3	0.0027	27
Y2-100L1-4	2.2	1430	5.16	80	0.81	7.0	2.3	2.3	0.0054	34
Y2-100L2-4	3.0	1430	6.78	82	0.82	7.0	2.3	2.3	0.0067	38
Y2-112M-4	4.0	1440	8.83	84	0.82	7.0	2.3	2.3	0.0095	43
Y2-132S-4	5.5	1440	11.7	85	0.83	7.0	2.3	2.3	0.0214	68
Y2-132M-4	7.5	1440	15.6	87	0.84	7.0	2.3	2.3	0.0296	81
Y2-160M-4	11	1460	22.35	88	0.84	7.0	2.2	2.3	0.0747	123
Y2-160L-4	15	1460	30.15	89	0.85	7.5	2.2	2.3	0.0918	144
Y2-180M-4	18.5	1470	36.47	90.5	0.86	7.5	2.2	2.3	0.139	182
Y2-180L-4	22	1470	43.14	91	0.86	7.5	2.2	2.3	0.158	190
Y2-200L-4	30	1470	57.83	92	0.86	7.2	2.2	2.3	0.262	270
Y2-225S-4	37	1480	69.89	92.5	0.87	7.2	2.2	2.3	0.406	284
Y2-225M-4	45	1480	84.54	92.8	0.87	7.2	2.2	2.3	0.469	320
Y2-250M-4	55	1480	103.1	93	0.87	7.2	2.2	2.3	0.66	427
Y2-280S-4	75	1480	139	93.8	0.87	7.2	2.2	2.3	1.12	562
Y2-280M-4	90	1490	166.93	94.2	0.87	7.2	2.2	2.3	1.46	667
Y2-315S-4	110	1490	201.06	94.5	0.88	6.9	2.1	2.2	3.11	1030
Y2-315M-4	132	1490	240.57	94.8	0.88	6.9	2.1	2.2	3.62	1100
Y2-315L1-4	160	1490	287.95	94.9	0.89	6.9	2.1	2.2	4.13	1160
Y2-315L2-4	200	1490	358.8	95	0.89	6.9	2.1	2.2	4.94	1270
Y2-355M-4	250	1490	442.12	95.3	0.90	6.9	2.1	2.2	5.67	1700
Y2-355L-4	315	1490	555.32	95.6	0.90	6.9	2.1	2.2	6.66	1850



技术数据

Technical Specifications

型号 Type	额定功率 Rated output kW	满载时 Full load				堵转电流 额定电流 Locked current Rated current	堵转转矩 额定转矩 Locked torque Rated torque	最大转矩 额定转矩 Max torque Rated torque	转动惯量 Moment of inertia kgm ²	净重 Net Weight (B3) kg
		转速 Speed r/min	电流 Current A	效率 Eff %	功率因数 Power factor (cos φ)					
Y2-80L-6	0.37	890	1.3	62	0.70	4.7	1.9	2.0	0.00158	17
Y2-80M-6	0.55	890	1.79	65	0.72	4.7	1.9	2.1	0.0021	19
Y2-90S-6	0.75	910	2.26	69	0.72	5.5	2.0	2.1	0.0029	23
Y2-90L-6	1.1	910	3.15	72	0.73	5.5	2.0	2.1	0.0035	25
Y2-100L-6	1.5	940	3.95	76	0.75	5.5	2.0	2.1	0.0069	33
Y2-112M-6	2.2	940	5.57	79	0.76	6.5	2.0	2.1	0.0138	45
Y2-132S-6	3.0	960	7.41	81	0.76	6.5	2.1	2.1	0.0286	63
Y2-132M1-6	4.0	960	9.64	82	0.76	6.5	2.1	2.1	0.0357	73
Y2-132M2-6	5.5	960	12.93	84	0.77	6.5	2.1	2.1	0.0449	84
Y2-160M-6	7.5	970	17.0	86	0.77	6.5	2.0	2.1	0.0881	119
Y2-160L-6	11	970	24.23	87.5	0.78	6.5	2.0	2.1	0.116	147
Y2-180L-6	15	970	31.63	89	0.81	7.0	2.0	2.1	0.207	195
Y2-200L1-6	18.5	970	38.1	90	0.81	7.0	2.1	2.1	0.315	220
Y2-200L2-6	22	970	44.52	90	0.83	7.0	2.1	2.1	0.360	250
Y2-225M-6	30	970	58.63	91.5	0.84	7.0	2.0	2.1	0.547	292
Y2-250M-6	37	980	71.08	92	0.86	7.0	2.1	2.1	0.834	408
Y2-280S-6	45	980	85.98	92.5	0.86	7.0	2.1	2.0	1.39	536
Y2-280M-6	55	980	104.75	92.8	0.86	7.0	2.1	2.0	1.65	595
Y2-315S-6	75	980	141.77	93.5	0.86	7.0	2.0	2.0	4.11	990
Y2-315M-6	90	990	169.58	93.8	0.86	7.0	2.0	2.0	4.28	1080
Y2-315L1-6	110	990	208.83	94	0.86	6.7	2.0	2.0	5.45	1150
Y2-315L2-6	132	990	244.82	94.2	0.87	6.7	2.0	2.0	6.12	1210
Y2-355M1-6	160	990	291.52	94.5	0.88	6.7	1.9	2.0	8.85	1600
Y2-355M2-6	200	990	363.64	94.7	0.88	6.7	1.9	2.0	9.55	1700
Y2-355L-6	250	990	453.60	94.9	0.88	6.7	1.9	2.0	10.63	1800
Y2-80L-8	0.18	630	0.88	51	0.61	3.3	1.8	1.9	0.00158	17
Y2-80M-8	0.25	640	1.15	54	0.61	3.3	1.8	1.9	0.0021	19
Y2-90S-8	0.37	670	1.49	62	0.61	4.0	1.8	1.9	0.0029	23
Y2-90L-8	0.55	670	2.18	63	0.61	4.0	1.8	2.0	0.0035	25
Y2-100L1-8	0.75	690	2.43	71	0.67	4.0	1.8	2.0	0.0069	33
Y2-100L2-8	1.1	690	3.42	73	0.69	5.0	1.8	2.0	0.0107	38
Y2-112M-8	1.5	680	4.47	75	0.69	5.0	1.8	2.0	0.0149	50
Y2-132S-8	2.2	710	6.04	78	0.71	6.0	1.8	2.0	0.0314	63
Y2-132M-8	3.0	710	7.9	79	0.73	6.0	1.8	2.0	0.0395	79
Y2-160M1-8	4.0	720	10.28	81	0.73	6.0	1.9	2.0	0.0753	118
Y2-160M2-8	5.5	720	13.61	83	0.74	6.0	2.0	2.0	0.0931	119
Y2-160L-8	7.5	720	17.88	85.5	0.75	6.0	2.0	2.0	0.126	145
Y2-180L-8	11	730	25.29	87.5	0.76	6.6	2.0	2.0	0.203	184
Y2-200L-8	15	730	34.09	88	0.76	6.6	2.0	2.0	0.339	250
Y2-225S-8	18.5	730	40.58	90	0.76	6.6	1.9	2.0	0.491	266
Y2-225M-8	22	740	47.37	90.5	0.78	6.6	1.9	2.0	0.547	292
Y2-250M-8	30	740	63.43	91.0	0.79	6.6	1.9	2.0	0.834	405
Y2-280S-8	37	740	76.83	91.5	0.79	6.6	1.9	2.0	1.39	520
Y2-280M-8	45	740	92.93	92	0.79	6.6	1.9	2.0	1.65	592
Y2-315S-8	55	740	112.97	92.8	0.81	6.6	1.8	2.0	4.79	1000
Y2-315M-8	75	740	151.33	93	0.81	6.6	1.8	2.0	5.58	1100
Y2-315L1-8	90	740	177.86	93.8	0.82	6.6	1.8	2.0	6.37	1160
Y2-315L2-8	110	740	216.92	94	0.82	6.4	1.8	2.0	7.23	1230
Y2-355M1-8	132	740	260.3	93.7	0.82	6.4	1.8	2.0	10.55	1600
Y2-355M2-8	160	740	310.07	94.2	0.82	6.4	1.8	2.0	11.73	1700
Y2-355L-8	200	740	386.36	94.5	0.83	6.4	1.8	2.0	12.86	1800
Y2-315S-10	45	590	99.67	91.5	0.75	6.2	1.5	2.0	4.79	810
Y2-315M-10	55	590	121.16	92	0.75	6.2	1.5	2.0	6.37	930
Y2-315L1-10	75	590	162.16	92.5	0.76	6.2	1.5	2.0	7.0	1045
Y2-315L2-10	90	590	191.03	93	0.77	6.2	1.5	2.0	7.15	1115
Y2-355M1-10	110	590	230	93.2	0.78	6.0	1.3	2.0	12.55	1500
Y2-355M2-10	132	590	275.11	93.5	0.78	6.0	1.3	2.0	13.75	1600
Y2-355L-10	160	590	333.47	93.5	0.78	6.0	1.3	2.0	14.86	1700