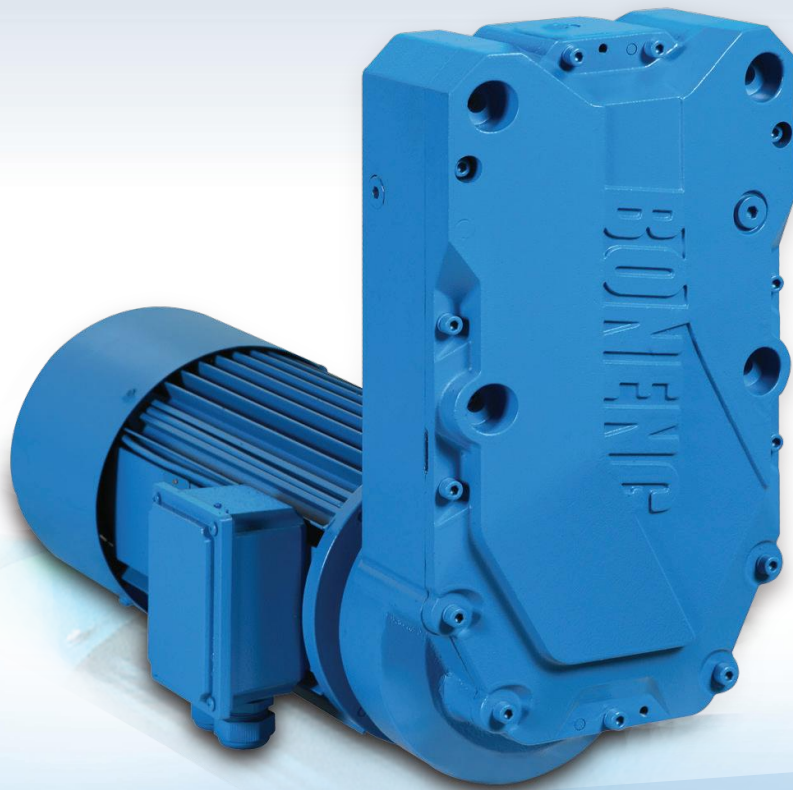


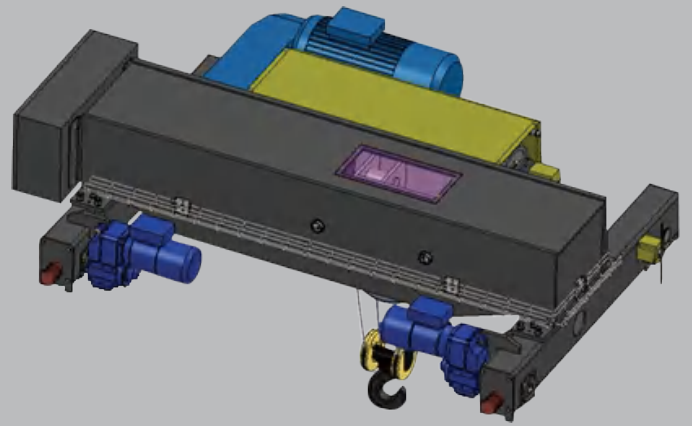
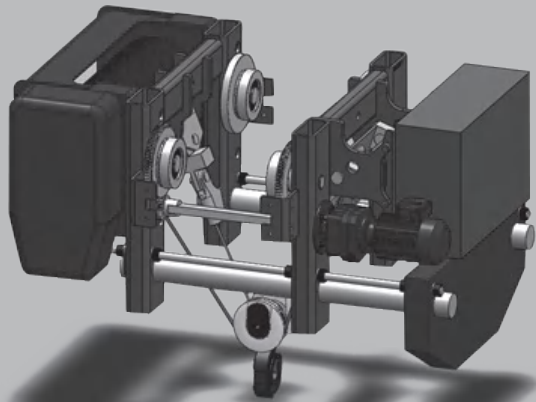
BONENG



博能 FC钢绳葫芦升降齿轮马达 FC wire Rope Hoist Lifting Gearmotor

6 / 2017

Contact : supplychainalliance.cn@gmail.com



多年来，博能公司一直致力于为起重和升降领域提供卓越的驱动技术。新型FC钢绳葫芦升降齿轮马达是我公司在多年丰富经验的基础上，结合国际先进技术研发出来的革新型产品。

为获得强劲而可靠驱动系统，我们组建了专业的团队来完成设计和制造，同时团队创新改进，将使您的起重和升降设备具有更好的表现。

Boneng has been devoting to provide outstanding drive technology for hoisting and lifting field through the years. New type FC wire rope hoist lifting gearmotor is the result of our years of experience combined with international advanced technology.

For forceful and reliable drive system, we set up a dedicated team group to fulfil designing and manufacturing, meanwhile, innovative team group will get your hoisting and lifting system more favorable performance.

博能升降电机

博能升降电机有多种规格，可支持功率范围为0.37~19.2kW。具有以下突出特征：

- 强劲的马力和良好的冷却特性
- 集成式双面安全制动，响应快、低磨损、噪音低
- 电机绝缘等级H级，寿命更长久

博能升降齿轮马达

博能升降齿轮马达配有4种尺寸直接驱动钢绳缆卷筒并带制动齿轮电机。该驱动系统的设计基于FEM分析可实现4/1的滑轮倍率承载3.2到20吨，保证安全而可靠的起升操作。

显著特点有：

- 铝制电机壳体和齿轮箱，重量轻，装配简单
- 紧凑而强劲的驱动单元
- 三级平行轴式斜齿轮减速电机，结构紧凑，传动效率高，轴距加长，可安装更大直径卷筒
- 基于DIN标准设计的花键直接安装于卷筒，U型底座结构，安装简单，节省空间
- 起升速度，4/5/6.3和8m/min（1/4的滑轮倍率变频）
- 产品寿命周期内免维护

制动器

钢绳葫芦升降齿轮马达都设计配有双面安全制动器从而具有以下优势：

- 性能可靠，响应速度快
- 磨损小，寿命长
- 双面失电制动
- 安全且无振动的制动
- 非石棉的制动片



整机标配颜色 ■■■（RAL5015）

非标配颜色可按客户要求定制。

Colour of standard allocation ■■■ (RAL5015) Colour of Non-standard allocation can be customized according to customer requirements

Boneng Hoisting Electric Motor

Boneng hoisting electric motor power ranges from 0.37-19.2kW

Features:

- Higher power and highly efficient motor cooling
- Intergrated double side safety brake, quick response、low weak、low noise emission
- Motor insulation grade H , long life service

Boneng Wire Rope Hoist Lifting Gearmotor

Boneng wire rope hoist lifting gearmotor is available with 4 size designs which can drive the wire rope drum directly and FEM based design realizes 4/1 pulley ratio with load capacity from 3.2 - 20T which ensures the lifting safety and reliability.

Features:

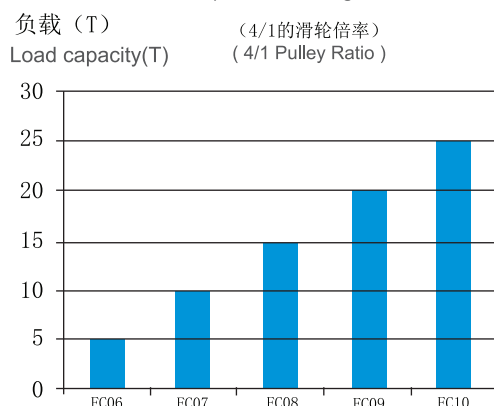
- Aluminum housing, light weight, simple to install
- Compact and strong drive unit
- 3 stage parallel shaft helical geared motor, compact construction, high efficiency, long extended center distance, allowing bigger drum mounted
- DIN standard based design, spline mounting directly to drum, U shape base, simple mounting, low space
- Lifting speed, 4/5/6.3 and 8m/min(1/4 pulley ratio, frequency)
- Free maintenance within life period

Brake

Wire rope hoist lifting gearmotor are designed with double side safety brake with follow features:

- Reliable performance, quick response
- Low wear, long life service
- Double side electric loss brake
- Safe and nonvibration brake
- Non asbestos brake pads

钢绳葫芦升降齿轮马达概览
Wire Rope Hoist Lifting Gearmotor Table

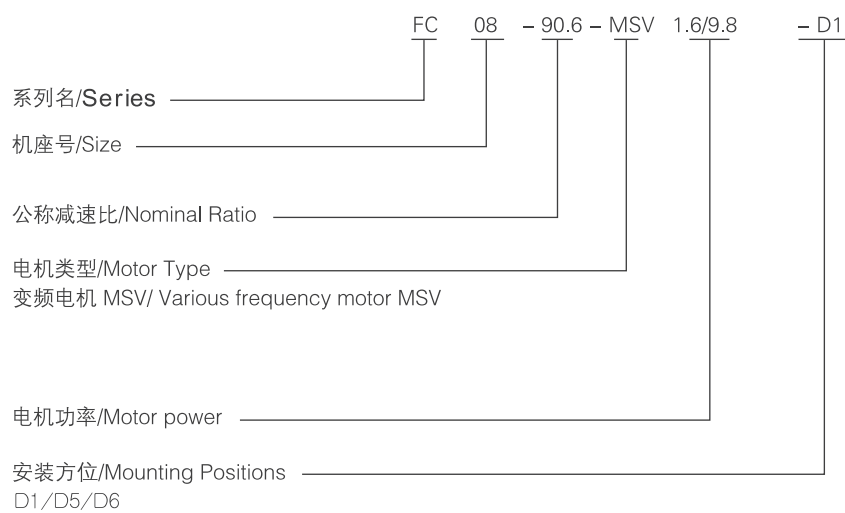


目 录

▲-----	FC06 钢绳葫芦升降齿轮马达-变频控制	05
	FC06 Wire Rope Hoist Lifting Gearmotor-Frequency Controlled	
▲-----	FC07 钢绳葫芦升降齿轮马达-变频控制	07
	FC07 Wire Rope Hoist Lifting Gearmotor-Frequency Controlled	
▲-----	FC08 钢绳葫芦升降齿轮马达-变频控制	09
	FC08 Wire Rope Hoist Lifting Gearmotor-Frequency Controlled	
▲-----	FC09 钢绳葫芦升降齿轮马达-变频控制	11
	FC09 Wire Rope Hoist Lifting Gearmotor-Frequency Controlled	
▲-----	Attachment/附件	13
▲-----	Hoisting driving system/起重机运行驱动系统	14

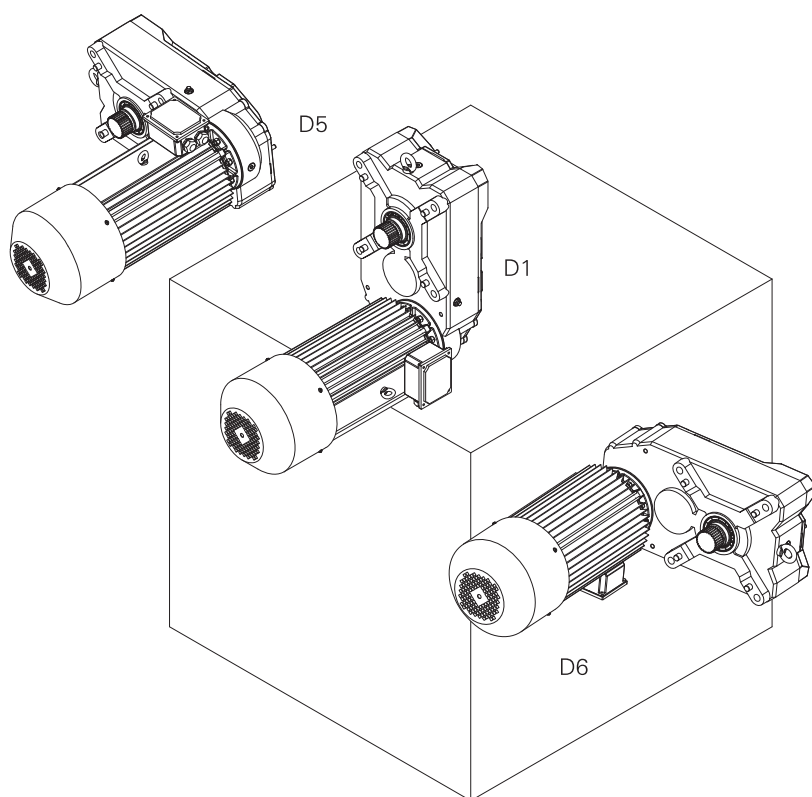
型号表示方法:

Type Designation:



安装方位:

Mounting Positions:





产品描述 / Description

- 参照FEM标准设计
- 铝制三级平行轴式齿轮减速电机，直接安装于卷筒
- 带双面安全制动器的大功率升降电机
- 通过标准接口装配简单
- Designed according to FEM standard
- 3 stage aluminum parallel shaft geared motor, mounted directly to rope drum
- High power hoisting electric motor with double side safety brake
- Standard connector, simple to install

技术数据 / Technical Data

技术数据 / Technical Data	
起升重量 / Lifting capacity:	达到3.2吨 /up to 3.2T
起升速度 / Lifting speed:	4/5/6.3/7.5 m/min 4/1的滑轮倍率 / 4/1 pulley ratio
卷筒直径 / Drum Diameter:	140mm
电机功率 / Motor power:	P=3.2-4.0kW (4极数@100Hz/4 poles @100Hz)
输出轴DIN 5480 / Output shaft DIN5480	W40x2x18x8f

产品优势

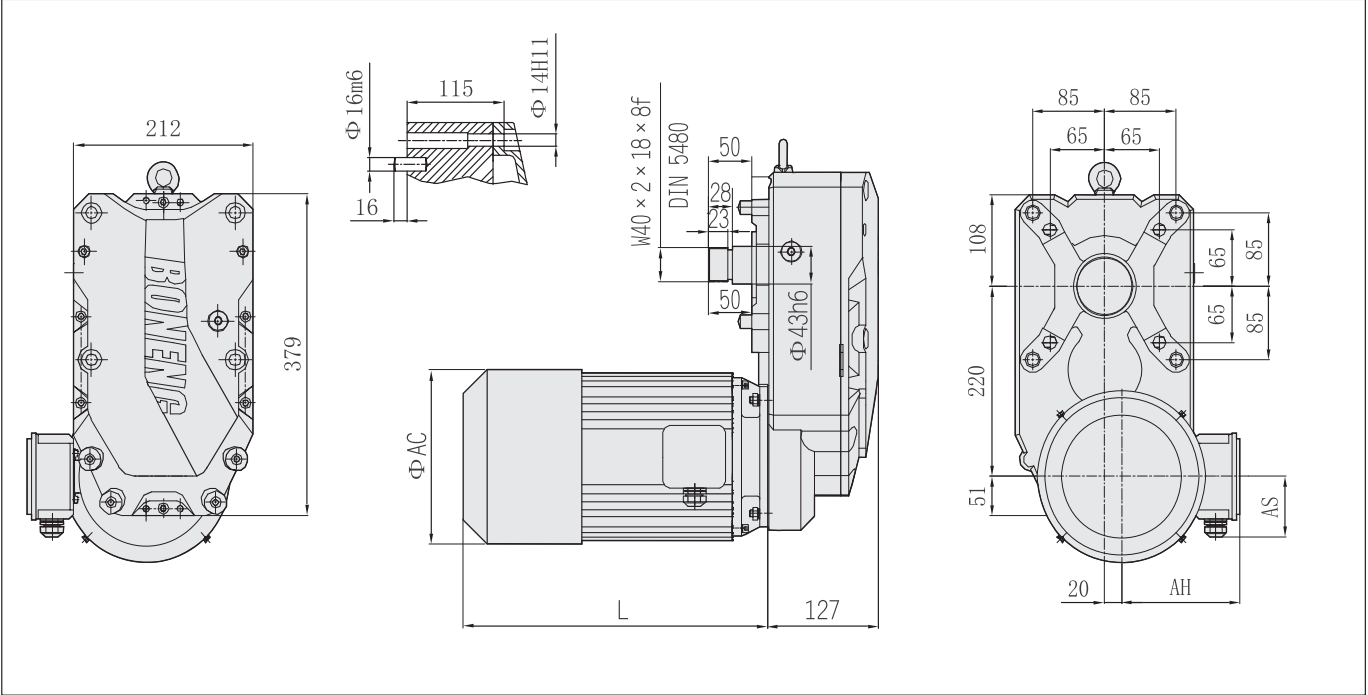
- 重量轻-运输成本低，装配简单
- 效率高-节能
- 设计紧凑-节省空间
- 轴距长
- 动态的加速特性-较大的启动和极限力矩
- 双面安全制动-制动平稳，安全
- 卷筒轴承支持与升降齿轮马达集成设计

Advantages

- Low weight -low shipping cost, simple to install
- Highly efficient-energy saving
- Compact design-low space
- long center distance
- Dynamic acceleration characteristics-heavier starting and limited torque
- Double side brake-stability and safety
- Integrated design is applied in drum bearing support and lifting gearmotor

FC06 钢绳葫芦升降齿轮马达-变频控制

FC06 Wire Rope Hoist Lifting Gearmotor-Frequency Controlled



FC06 钢绳葫芦升降齿轮马达										
FC06 Wire Rope Hoist Lifting Gearmotor										
→ 卷筒直径140mm → 4/1的滑轮倍率 → Drum Diameter140mm → 4/1 pulley ratio										
Pos.	Load [t]	ISO	FEM	V [m/min]	P [kW]	f [Hz]	减速比 Ratio [i]	制动力矩 Brake Torque [N · m]	型号/Type	电机尺寸 Motor Size [mm]
1	3.2 2.5 2	M5 M6 M7	2m 3m 4m	0.66-4.0 (0.8-4.8)	3.2 (3.8)	100 (120)	76.6	60	FC06-76.6-MSV3.2	L: 448 AC: 222 AH: 177 AS: 94
2	3.2 2.5 2	M5 M6 M7	2m 3m 4m	0.8-5.0 (1.0-6.0)	3.2 (3.8)	100 (120)	63.4	60	FC06-63.4-MSV3.2	L: 448 AC: 222 AH: 177 AS: 94
3	3.2 2.5 2	M5 M6 M7	2m 3m 4m	1.0-6.3 (1.2-7.6)	4 (4.8)	100 (120)	51.1	60	FC06-51.1-MSV4	L: 448 AC: 222 AH: 177 AS: 94
4	2.5 2 1.6	M5 M6 M7	2m 3m 4m	1.3-7.5 (1.6-9.0)	4 (4.8)	100 (120)	41.7	60	FC06-41.7-MSV4	L: 448 AC: 222 AH: 177 AS: 94



产品描述 / Description

- 参照FEM标准设计
- 铝制三级平行轴式齿轮减速电机，直接安装于卷筒
- 带双面安全制动器的大功率升降电机
- 通过标准接口装配简单
- Designed according to FEM standard
- 3 stage aluminum parallel shaft geared motor, mounted directly to rope drum
- High power hoisting electric motor with double side safety brake
- Standard connector, simple to install

技术数据 / Technical Data

技术数据 / Technical Data	
起升重量 / Lifting capacity:	达到6.8吨 /up to 6.8T
起升速度 / Lifting speed:	4/5/6.3/7.5 m/min 4/1的滑轮倍率 /4/1 pulley ratio
卷筒直径 / Drum Diameter:	170mm
电机功率 / Motor power:	P=6.1~9.8kW (4极数@100Hz/4 poles @100Hz)
输出轴DIN 5480 / Output shaft DIN5480	W45x2x21x8f

产品优势

- 重量轻-运输成本低，装配简单
- 效率高-节能
- 耐腐蚀-无需另外上漆
- 设计紧凑-节省空间
- 轴距长
- 动态的加速特性-较大的启动和极限力矩
- 双面安全制动-制动平稳，安全
- 卷筒轴承支持与升降齿轮马达集成设计

Advantages

- Low weight -low shipping cost, simple to install
- Highly efficient-energy saving
- Corrosion-resistant-no need painting
- Compact design-low space
- long center distance
- Dynamic acceleration characteristics-heavier starting and limited torque
- Double side brake-stability and safety
- Integrated design is applied in drum bearing support and lifting gearmotor



产品描述 / Description

- 参照FEM标准设计
- 铝制三级平行轴式齿轮减速电机，直接安装于卷筒
- 带双面安全制动器的大功率升降电机
- 通过标准接口装配简单
- Designed according to FEM standard
- 3 stage aluminum parallel shaft geared motor, mounted directly to rope drum
- High power hoisting electric motor with double side safety brake
- Standard connector, simple to install

技术数据 / Technical Data

技术数据 /Technical Data	
起升重量 / Lifting capacity:	达到12. 5吨 /up to 12.5T
起升速度 / Lifting speed:	4/5/6. 3/8 m/min 4/1的滑轮倍率 /4/1pulley ratio
卷筒直径 / Drum Diameter:	266mm
电机功率	P=9. 8~12. 5kW (4极数@100Hz/4 poles @100Hz)
输出轴DIN 5480 / Output shaft DIN5480	W65x2x31x8f

产品优势

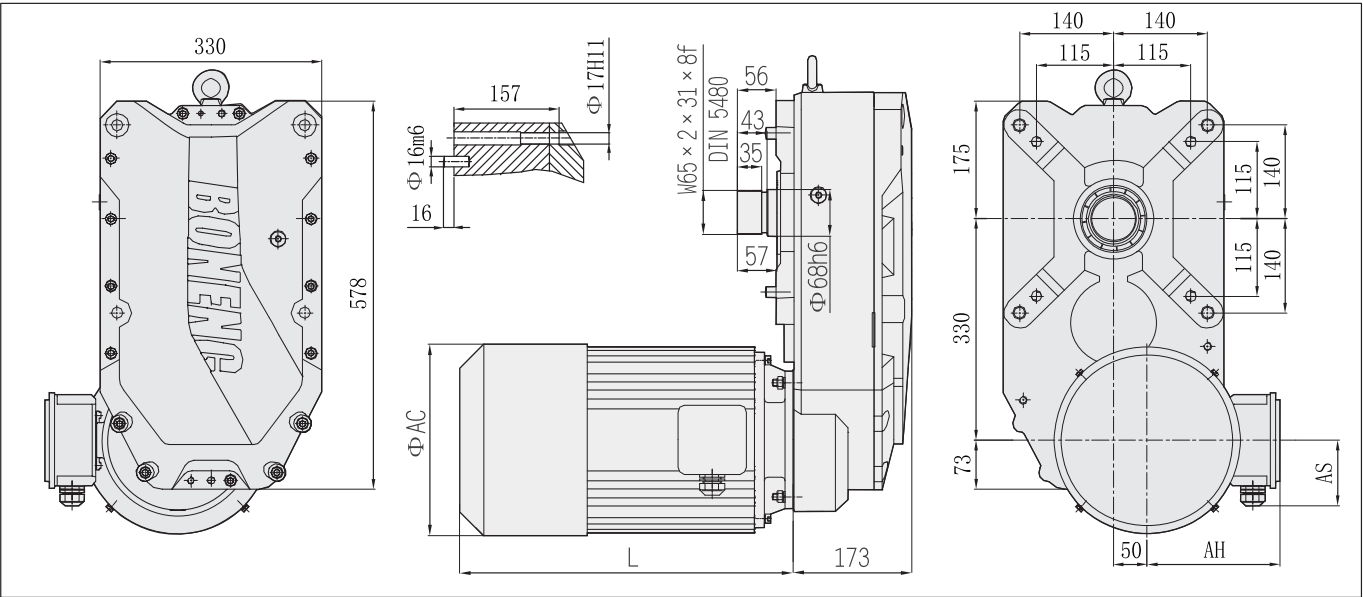
- 重量轻-运输成本低，装配简单
- 效率高-节能
- 耐腐蚀-无需另外上漆
- 设计紧凑-节省空间
- 轴距长
- 动态的加速特性-较大的启动和极限力矩
- 双面安全制动-制动平稳，安全
- 卷筒轴承支持与升降齿轮马达集成设计

Advantages

- Low weight -low shipping cost, simple to install
- Highly efficient-energy saving
- Corrosion-resistant-no need painting
- Compact design-low space
- long center distance
- Dynamic acceleration characteristics-heavier starting and limited torque
- Double side brake-stability and safety
- Integrated design is applied in drum bearing support and lifting gearmotor

FC08 钢绳葫芦升降齿轮马达-变频控制

FC08 Wire Rope Hoist Lifting Gearmotor-Frequency Controlled



FC08 钢绳葫芦升降齿轮马达							FC08 Wire Rope Hoist Lifting Gearmotor			
→卷筒直径266mm							→Drum Diameter266mm			
→4/1的滑轮倍率							→4/1 pulley ratio			
Pos.	Load [t]	ISO	FEM	V [m/min]	P [kW]	f [Hz]	减速比 Ratio [i]	制动力矩 Brake Torque [N·m]	型号/Type	电机尺寸 Motor Size [mm]
1	10	M5	2m	0.66-4.0 (0.8-4.8)	9.8 (11.8)	100 (120)	152.1	100	FC08-152.1-MSV9.8	L: 485
	8	M6	3m							AC: 272
	6.3	M7	4m							AH: 203
	5	M7	4m							AS: 94
2	10	M5	2m	0.8-5.0 (1.0-6.0)	9.8 (11.8)	100 (120)	126.5	100	FC08-126.5-MSV9.8	L: 485
	8	M6	3m							AC: 272
	6.3	M7	4m							AH: 203
	5	M7	4m							AS: 94
3	8	M5	2m	1.0-6.3 (1.2-7.6)	9.8 (11.8)	100 (120)	90.6	100	FC08-90.6-MSV9.8	L: 485
	6.3	M6	3m							AC: 272
	5	M7	4m							AH: 203
	4	M7	4m							AS: 94
4	6.3	M5	2m	1.3-8.0 (1.6-9.6)	9.8 (11.8)	100 (120)	72.5	100	FC08-72.5-MSV9.8	L: 485
	5	M6	3m							AC: 272
	4	M7	4m							AH: 203
	3.2	M7	4m							AS: 94
5	12.5	M5	2m	0.66-4.0 (0.8-4.8)	9.8 (11.8)	100 (120)	152.1	100	FC08-152.1-MSV9.8	L: 485
	10	M6	3m							AC: 272
	8	M7	4m							AH: 203
	6.3	M7	4m							AS: 94
6	12.5	M4	1Am	0.8-5.0 (1.0-6.0)	12.5 (15.0)	100 (120)	126.5	150	FC08-126.5-MSV12.5	L: 535
	10	M5	2m							AC: 272
	8	M6	3m							AH: 203
	6.3	M7	4m							AS: 94
7	10	M4	1Am	1.0-6.3 (1.2-7.6)	12.5 (15.0)	100 (120)	90.6	150	FC08-90.6-MSV12.5	L: 535
	8	M5	2m							AC: 272
	6.3	M6	3m							AH: 203
	5	M7	4m							AS: 94
8	8	M4	1Am	1.3-8.0 (1.6-9.6)	12.5 (15.0)	100 (120)	72.5	150	FC08-72.5-MSV12.5	L: 535
	6.3	M5	2m							AC: 272
	5	M6	3m							AH: 203
	4	M7	4m							AS: 94



产品描述 / Description

- 参照FEM标准设计
- 铝制三级平行轴式齿轮减速电机，直接安装于卷筒
- 带双面安全制动器的大功率升降电机
- 通过标准接口装配简单
- Designed according to FEM standard
- 3 stage aluminum parallel shaft geared motor, mounted directly to rope drum
- High power hoisting electric motor with double side safety brake
- Standard connector, simple to install

技术数据 / Technical Data

技术数据 / Technical Data	
起升重量 / Lifting capacity:	达到20吨 /up to 20T
起升速度 / Lifting speed:	4/5/6.3/8 m/min 4/1的滑轮倍率/4/1 pulley ratio
卷筒直径 / Drum Diameter:	295mm
电机功率 / Motor power:	P=12.5~16kW (4极数@100Hz/4 poles @100Hz)
输出轴DIN 5480 / Output shaft DIN5480	W75x2x36x8f

产品优势

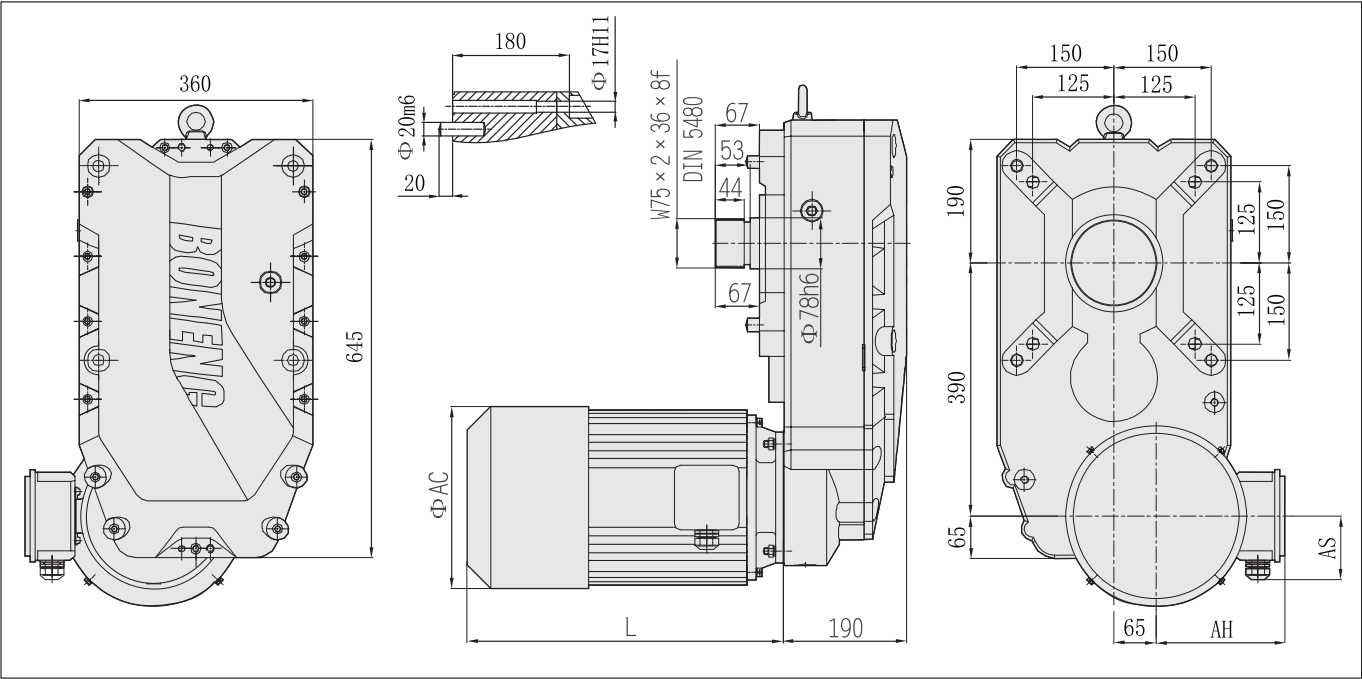
- 重量轻-运输成本低，装配简单
- 效率高-节能
- 耐腐蚀-无需另外上漆
- 设计紧凑-节省空间
- 轴距长
- 动态的加速特性-较大的启动和极限力矩
- 双面安全制动-制动平稳，安全
- 卷筒轴承支持与升降齿轮马达集成设计

Advantages

- Low weight -low shipping cost, simple to install
- Highly efficient-energy saving
- Corrosion-resistant-no need painting
- Compact design-low space
- long center distance
- Dynamic acceleration characteristics-heavier starting and limited torque
- Double side brake-stability and safety
- Integrated design is applied in drum bearing support and lifting gearmotor

FC09 钢绳葫芦升降齿轮马达-变频控制

FC09 Wire Rope Hoist Lifting Gearmotor-Frequency Controlled



FC09 钢绳葫芦升降齿轮马达					FC09 Wire Rope Hoist Lifting Gearmotor					
→ 卷筒直径295mm →4/1的滑轮倍率					→Drum Diameter295mm →4/1 pulley ratio					
Pos.	Load [t]	ISO	FEM	V [m/min]	P [kW]	f [Hz]	减速比 Ratio [i]	制动力矩 Brake Torque [N·m]	型号/Type	电机尺寸 Motor Size [mm]
1	16	M5	2m	0.66-4.0 (0.8-4.8)	12.5 (15.0)	100 (120)	170.2	150	FC09170.2-MSV12.5	L: 535
	12.5	M6	3m							AC: 272
	10	M7	4m							AH: 203
	8	M7	4m							AS: 94
2	20	M4	1Am	0.66-4.0 (0.8-4.8)	16.0 (19.2)	100 (120)	170.2	150	FC09170.2-MSV16.0	L: 535
	16	M5	2m							AC: 272
	12.5	M6	3m							AH: 203
	10	M7	4m							AS: 94
3	16	M4	1Am	0.8-5.0 (1.0-6.0)	16.0 (19.2)	100 (120)	137.1	150	FC09137.1-MSV16.0	L: 535
	12.5	M5	2m							AC: 272
	10	M6	3m							AH: 203
	8	M7	4m							AS: 94
4	12.5	M4	1Am	1.0-6.3 (1.2-7.6)	16.0 (19.2)	100 (120)	107.1	150	FC09107.1-MSV16.0	L: 535
	10	M5	2m							AC: 272
	8	M6	3m							AH: 203
	6.3	M7	4m							AS: 94
5	10	M4	1Am	1.3-8.0 (1.6-9.6)	16.0 (19.2)	100 (120)	82.9	150	FC0982.9-MSV16.0	L: 535
	8	M5	2m							AC: 272
	6.3	M6	3m							AH: 203
	5	M7	4m							AS: 94

附件

1.0 润滑油

Attachment

1.0 Lubrication oil

规格 /Size	FC06	FC07	FC08	FC09
注油量/Oil mass (L)	2.5	5.5	9	12

注:

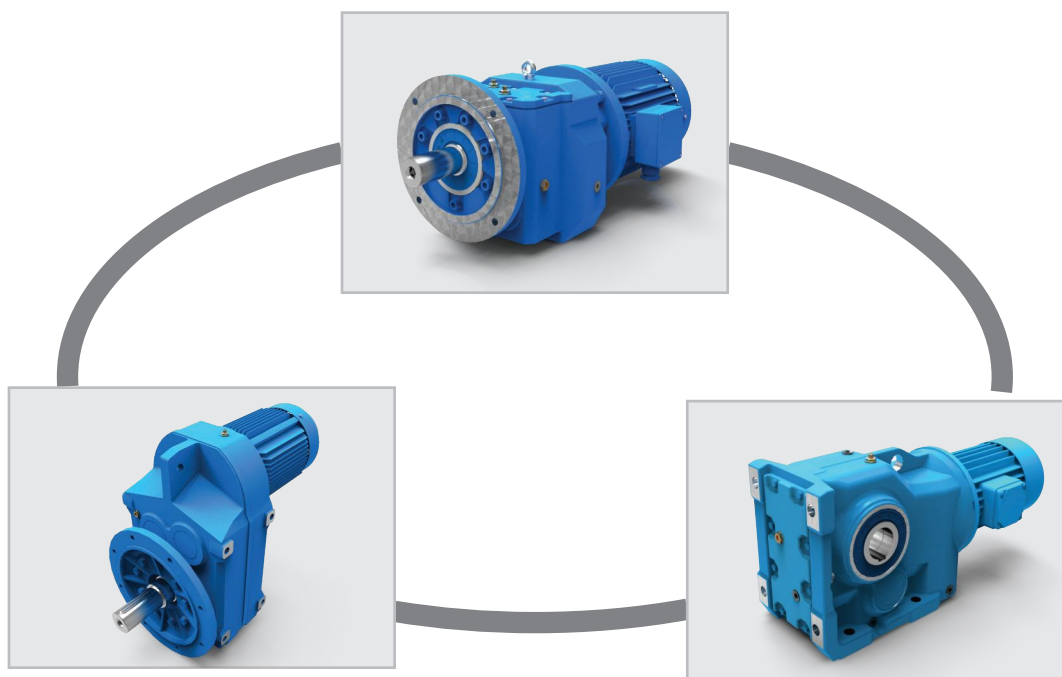
- 1、产品使用环境温度-20℃~+40℃
- 2、产品出厂已加润滑油，粘度牌号为VG680（ISO粘度等级）；
- 3、当环境温度低于-10℃必须使用合成油；
- 4、为保证产品寿命，实际使用中建议使用合成油；
- 5、若环境温度超出上述范围，敬请垂询。

Note:

- 1 Products using the environment temperature of -20℃ ~ +40℃
- 2 Lubrication oil has been added before delivery, viscosity code: VG680 (ISO Viscosity grade);
- 3 when the temperature is lower than -10 DEG C will To use synthetic oil;
- 4 In order to ensure the service life of the product, in actual use, recommend the use of synthetic oil;
- 5 If the ambient temperature is beyond the scope of the above, please contact.

BONENG 起重机运行驱动系统

Hoisting driving system



BONENG为起重机运行驱动系统根据应用不同提供多种系列产品，并具有不同的产品特性和用途：

CR斜齿轮减速机

F平行轴斜齿轮减速机

K斜齿-螺旋锥齿轮减速机

.....

所有的减速电机结构紧凑包含了电机、减速机、制动器。同时，为我们的用户提供以下优势：

- 独创模块化设计，零部件通用化最大化，便于 国际化生产，库存少，供货周期短
- 拥有底座式、法兰式、轴装式等多种安装方式，能满足客户不同安装方式要求
- 拟生态外观设计，赋予产品运动和力量的天性
- 精确的定位
- 整机自重轻

.....

Boneng provide various kinds product for hoisting driving system of different application and with different features and application.

CR helical gear units

F parallel shaft helical gear units

K helical-spiral bevel gear units

.....

Compact design, equipped with motor, housing, brake. Advantages are as below:

- Unique modular design, universal maximization, international production friendly, low stock, short supplying circle
- Available with foot, flange, shaft mounted will meet different requirement on mounting
- Ecological design is endowed with a meaning of motion and strength
- Precise position
- Low weight

.....

(如有需要，可向我公司销售人员索取该系列样本)

(Any request, please talk to our sales for brochure)