



FELICIA

创新 / 合作 / 共赢

Air starter Brochure

FTS 系列 气启动马达手册



FELICIA

上海总部

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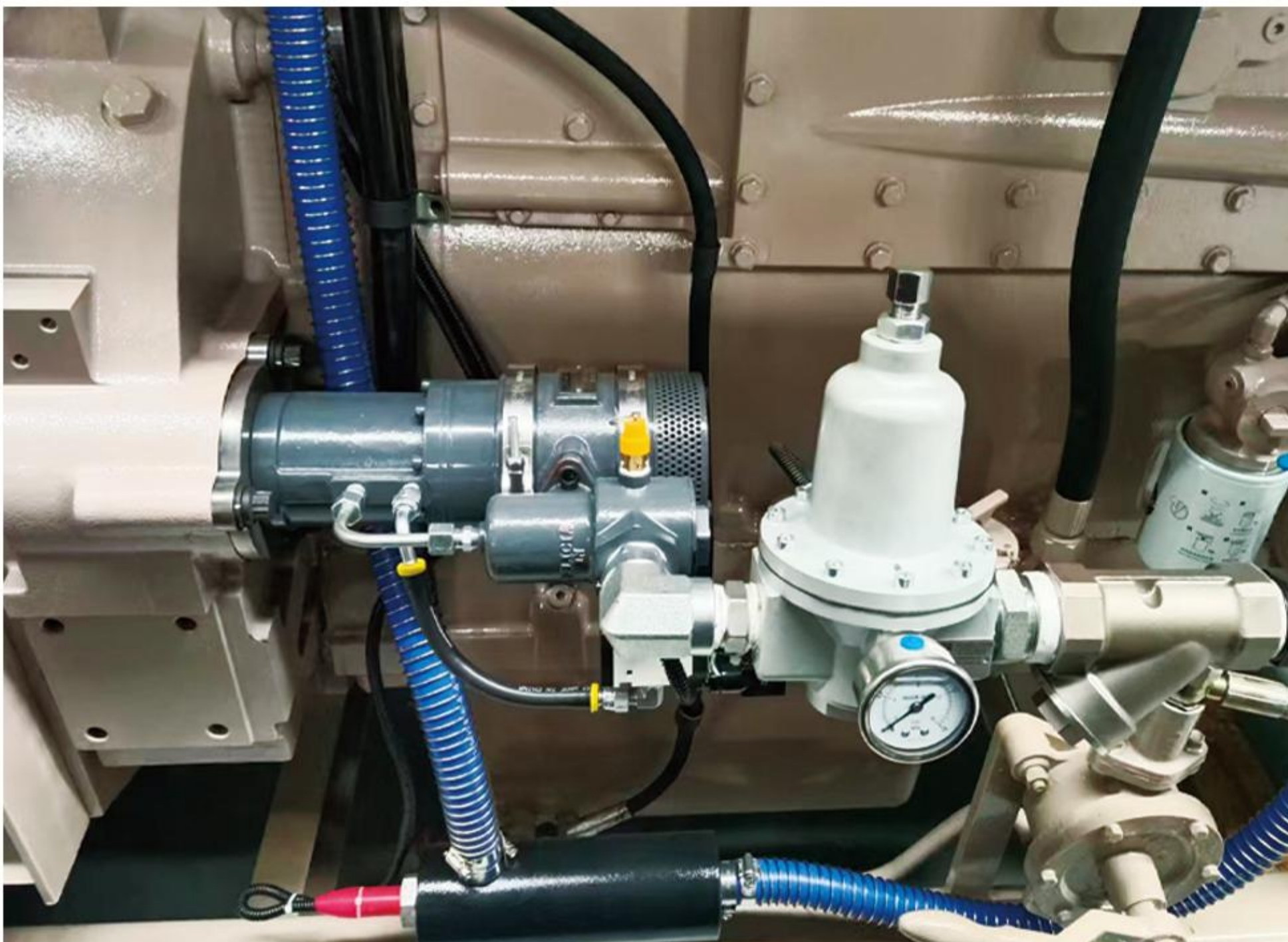
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雨凡机械科技(上海)有限公司
YuFan Machinery Technology(Shanghai) Co., LTD.

FELICIA FTS系列涡轮气马达

涡轮式马达通过涡轮，可将空气压力能转变为旋转的机械能，再借助减速齿轮达到所需扭矩和转速，从而启动发动机。



- 1

更大的启动扭矩
- 2

无需电池
- 3

受周围环境条件及温度影响小
- 4

不需专用工具维护
- 5

快速可靠的启动
- 6

更长的使用寿命
- 7

几乎没有摩擦的零件
- 8

维护需求少



FELICIA FTS64系列		FELICIA FTS71系列	
适用于0–8升柴油机 (QSB3.9、QSB4.5)		适用于3-14 升柴油机 (东方红4105、6105等)	
主要特性 (100 psi)		主要特性 (100 psi)	
• 重量7.8kg	• 功率7.4 kW	• 重量15kg	• 功率17.4 kW
• 扭矩67.8 N·M	• 耗气量132 l/s	• 扭矩 140 N·M	• 耗气量152 l/s
• 转速 4500 RPM	• 噪音度 100 DbA	• 转速 4500 RPM	• 噪音度 100DbA

FELICIA FTS74系列		FELICIA FTS74Z系列	
适用于7–30 升柴油机 (康明斯6116、上柴6121、华柴2015等)		适用于7–30 升柴油机 (康明斯K19等)	
主要特性 (100 psi)		主要特性 (100 psi)	
• 重量16 kg	• 功率19.4 kW	• 重量20.3 kg	• 功率19.4 kW
• 扭矩 156 N·M	• 耗气量170 l/s	• 扭矩 156 N·M	• 耗气量170 l/s
• 转速4500 RPM	• 噪音度 100 DbA	• 转速4500 RPM	• 噪音度 100 DbA

FELICIA FTS94系列		FELICIA FTS510系列(另有同系列FTS514)	
适用于25–70 升柴油机 (康明斯KTA38, KTA50, QSK60等)		适用于30–80 升柴油机 (康明斯KTA50、底特律16V149、洋马YANMAR 6EY18、曼恩MAN21/31等)	
主要特性 (100 psi)		主要特性 (100 psi)	
• 重量18kg	• 功率25 kW	• 重量15.4 kg	• 功率25 kW
• 扭矩285 N·M	• 耗气量380 l/s	• 扭矩 272N·M	• 耗气量323 l/s
• 转速 3600 RPM	• 噪音度 108DbA	• 转速4100 RPM	• 噪音度 108 DbA

FELICIA T6C系列		FELICIA FTS115系列(另有同系列FTS112/121)	
适用于15–160 升柴油机 (曼恩MAN16/24&MAN21/31、洋马YANMAR N18, N20,EY-18,EY-22&EY-26、玉柴MV52等)		适用于30–250 升柴油机 (MAN23/30,MAN27/38,MAN28/32&MAN32/40、洋马YANMAR 6EY26、华气G1016L、中船安柴ACD320等)	
主要特性 (100 psi)		主要特性 (100 psi)	
• 重量17.2kg	• 功率40.4 kW	• 重量23kg	• 功率49 kW
• 扭矩 371.2N·M	• 耗气量517 l/s	• 扭矩 500 N·M	• 耗气量578 l/s
• 转速4100 RPM	• 噪音度 108 DbA	• 转速3600 RPM	• 噪音度 108 DbA

FELICIA ST499系列	
• 压力90Bar	• 重量10.8kg
• 最大功率马力26kw	• 脱开扭矩185N·M
• 最大马力时流量765L/s	• 最大马力转速1650RPM



FTS 64

FTS 71

FTS 74

FTS 94

FTS 74z

FTS 510

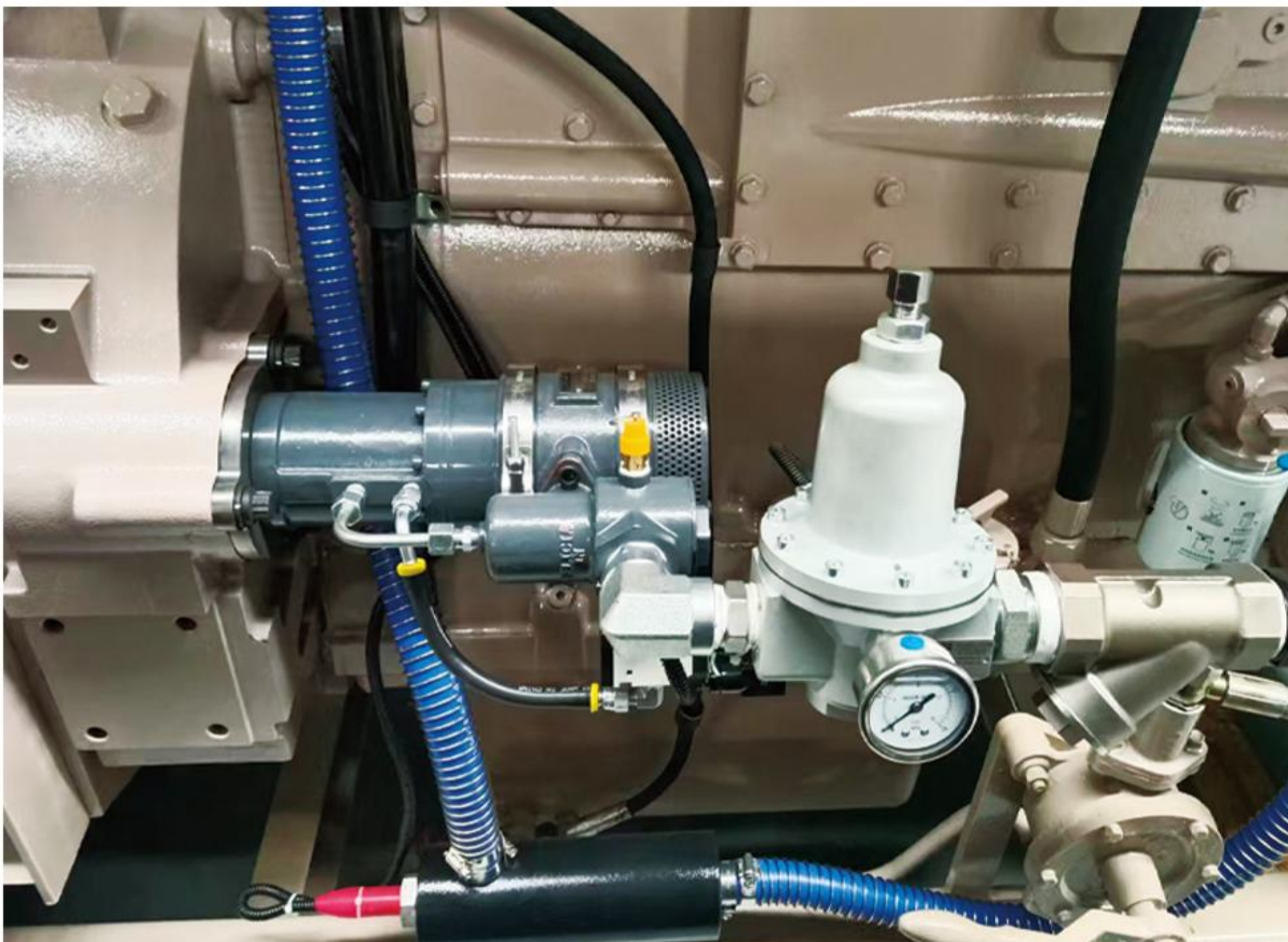
T6C/45MA

FTS115

ST499

FELICIA FTS Series Turbine Air Starters

A turbocharger converts the potential energy of compressed air into rotational mechanical energy via the turbine; this is then used in conjunction with a planetary gearset to achieve the required torque and speed, thereby starting the engine.



- 1
- Higher starting torque
- 2
- No batteries required
- 3
- Less susceptible to environmental conditions and temperature fluctuations
- 4
- No special tools required for maintenance
- 5
- Fast and reliable start-up
- 6
- Longer service life
- 7
- Parts with virtually no friction
- 8
- Low maintenance requirements



FELICIA FTS64 Series		FELICIA FTS71 Series	
Suitable for 0–8-liter diesel engines (QSB3.9, QSB4.5)		Suitable for 3–14-liter diesel engines (Dongfanghong 4105, 6105, etc.)	
Key Features (100 psi)		Key Features (100 psi)	
• Weight 7.8kg	• Power 7.4 kW	• Weight 15kg	•Power 17.4 kW
• Torque 67.8 N·M	• Air consumption 132 l/s	• Torque 140 N·M	• Air consumption 152 l/s
• Rotational speed 4500 RPM	• Noise level 100 Db	• Rotational speed 4500 RPM	• Noise level 100Db

FELICIA FTS74 Series		FELICIA FTS74Z Series	
Suitable for 7–30-liter diesel engines (Cummins 6116, Shangchai 6121, Huachai 2015, etc.)		Suitable for 7–30-liter diesel engines (Cummins K19, etc.)	
Key Features (100 psi)		Key Features (100 psi)	
• Weight 16 kg	• Power 19.4 kW	• Weight 20.3 kg	• Power 19.4 kW
• Torque 156 N·M	• Air consumption 170 l/s	• Torque 156 N·M	• Air consumption 170 l/s
• Rotational speed4500 RPM	• Noise level 100 Db	• Rotational speed 4500 RPM	• Noise level 100 Db

FELICIA FTS94 Series		FELICIA FTS510 Series (FTS514 available)	
Suitable for 25–70-liter diesel engines (Cummins KTA38, KTA50, QSK60, etc.)		Suitable for 30–80-liter diesel engines (Cummins KTA50, Detroit 16V149, Yanmar 6EY18, MAN 21/31, etc.)	
Key Features (100 psi)		Key Features (100 psi)	
• Weight 18kg	• Power 25 kW	• Weight 15.4 kg	• Power 25 kW
• Torque 285 N·M	• Air consumption 380 l/s	• Torque 272N·M	• Air consumption 323 l/s
• Rotational speed 3600 RPM	• Noise level 108Db	• Rotational speed 4100 RPM	• Noise level 108 Db

FELICIA T6C Series		FELICIA FTS115 Series (FTS112/121 available)	
Suitable for 15–160-liter diesel engines (MAN 16/24 & MAN 21/31, Yanmar N18, N20, EY-18, EY-22 & EY-26, Yuchai MV52, etc.)		Suitable for 30–250-liter diesel engines (MAN 23/30, MAN 27/38, MAN 28/32, and MAN 32/40; Yanmar 6EY26; Huachi G1016L; CSSC Anhui Diesel ACD320, etc.)	
Key Features (100 psi)		Key Features (100 psi)	
• Weight 17.2kg	• Power 40.4 kW	• Weight 23kg	• Power 49 kW
• Torque 371.2N·M	• Air consumption 517 l/s	• Torque 500 N·M	• Air consumption 578 l/s
• Rotational speed 4100 RPM	• Noise level 108 Db	• Rotational speed 3600 RPM	• Noise level 108 Db

FELICIA ST499 Series	
• Pressure 90Bar	• Weight 10.8kg
• Power 26kw	• Torque 185N·M
• Traffic 765L/s	• Rotational speed 1650RPM

