

EV Motors

www.wolong-electric.com

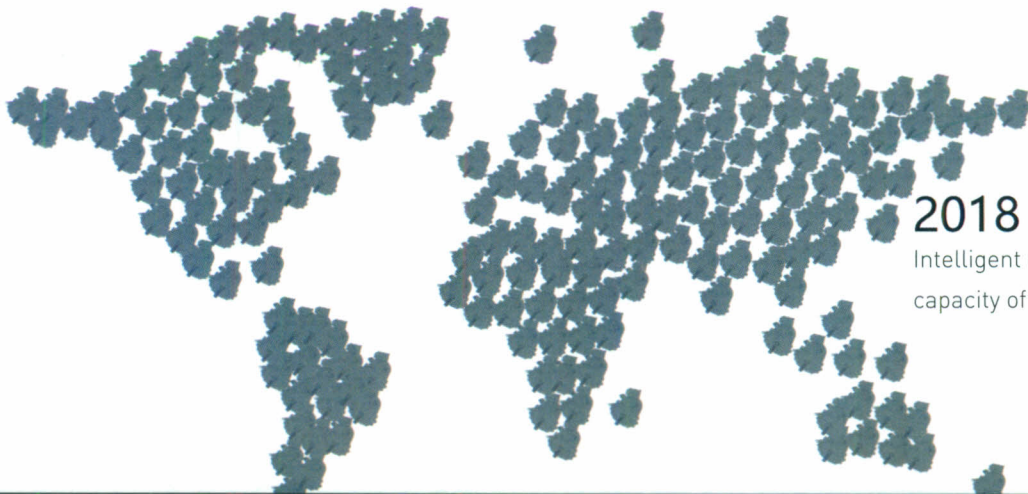
WOLONG
Power your future

Company introduction

Wolong, a world leading manufacturer of motor and drive control solutions, was founded in 1984. After more than 30 years of innovative development, Wolong has established 39 manufacturing plants spreading across the world in countries like China, Vietnam, Britain, Germany, Austria, Italy, Poland, Serbia, Mexico and India, plus 3 technology centers and employing more than 18,000 professionals.

Wolong EV Motor Business Division was established in 2011, focusing on the R&D, manufacturing and sales of new energy automotive motors and covering passenger cars, commercial vehicles and other special vehicles. With complete EV motor series, high power density, high torque and strong overload capacity, the company is dedicated to serving the customers globally. The company has the most advanced intelligent manufacturing factory in the industry. Through MES, PLM, ERP, CRM, WMS and other information software, it realizes the organic combination of people, machines and materials to ensure the reliability and delivery rate of products. Products have been widely used in mainstream car manufacturers, and achieved a good reputation.

Vision: The world's leading EV motor service provider!

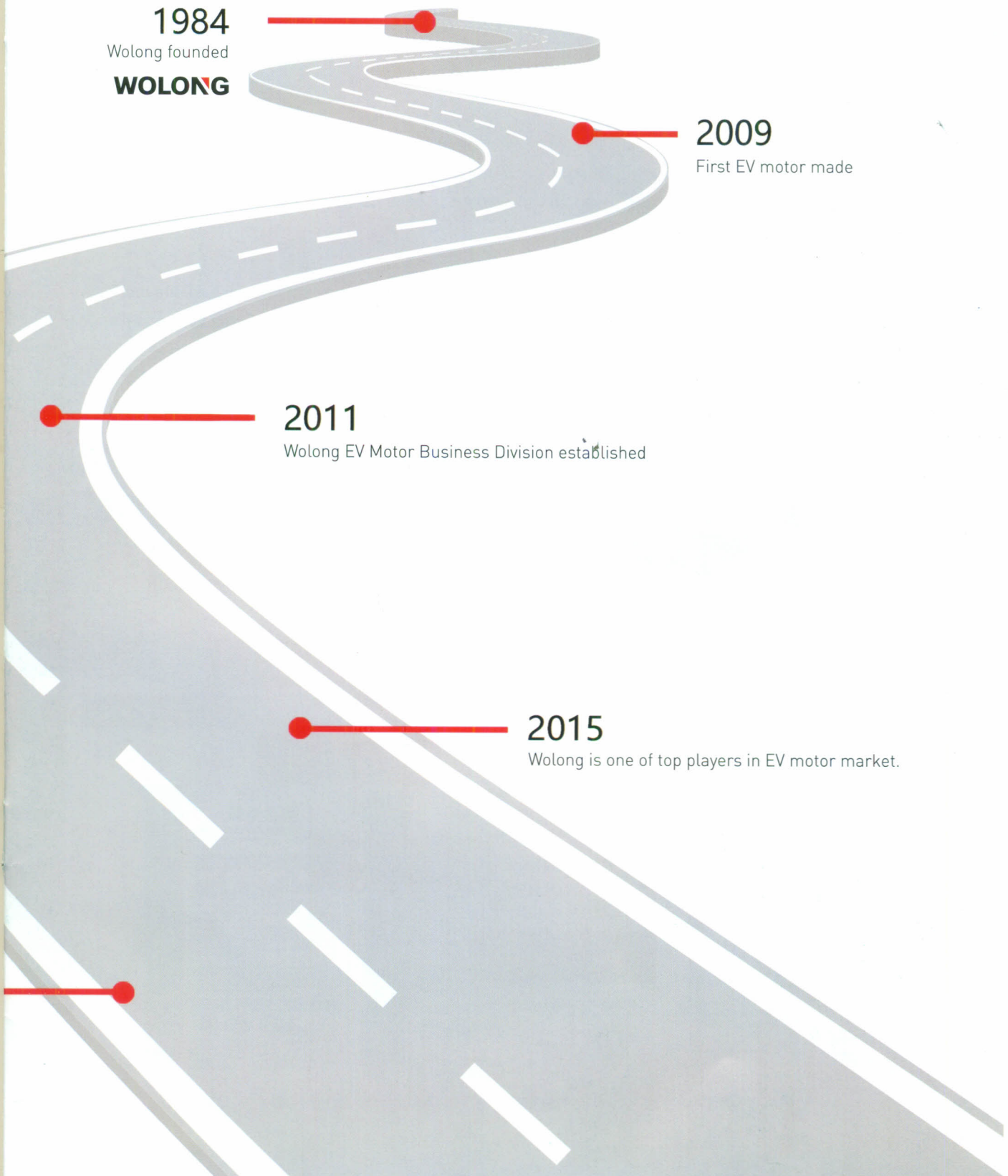


1984
Wolong founded
WOLONG

2009
First EV motor made

2011
Wolong EV Motor Business Division established

2015
Wolong is one of top players in EV motor market.



Development system

The V model has the characteristics of customer oriented, high efficiency and quality prevention, which can help us to build a more effective and operable software development process.

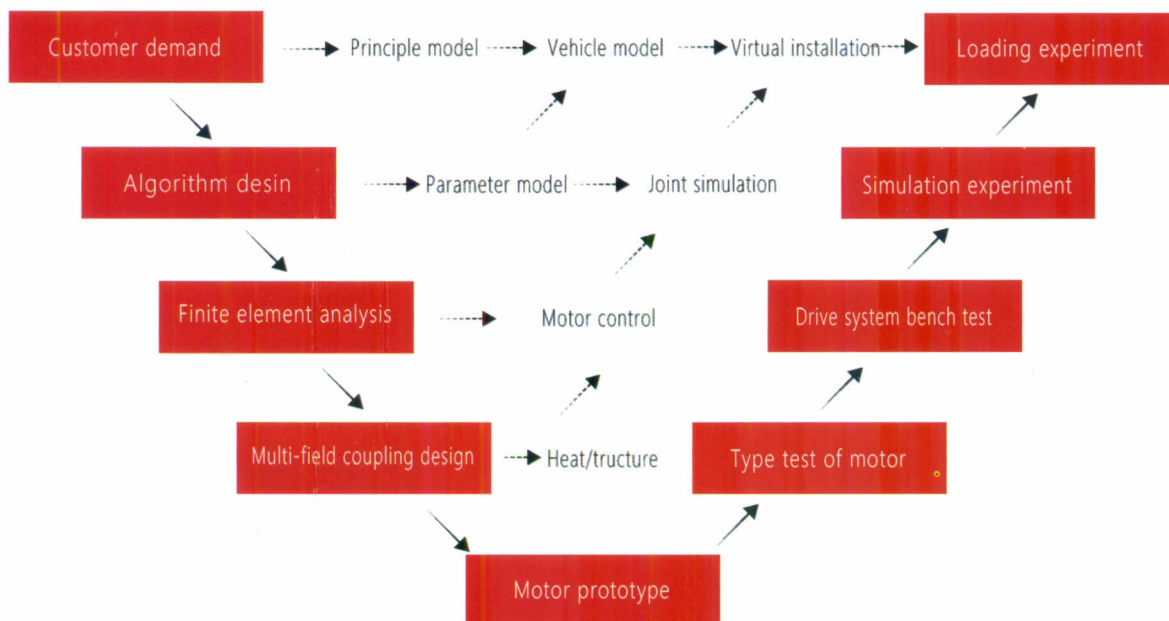
Lateral characteristics

On the left is design and analysis, the process of software design and implementation, accompanied by quality assurance activities - the process of auditing. It's a static test process; the right side is the validation of the left-hand result, the dynamic test process, that is, the test of the design and analysis results. Try to confirm whether or not it meets the needs of the user.

Longitudinal characteristics

In the vertical direction, the more the white box test method is used, the more the white box test methods are used, the more the white box test method and the black box test method are combined to form the grey box test method. In the process of acceptance testing, black box testing is used because users generally participate.

Type V development system



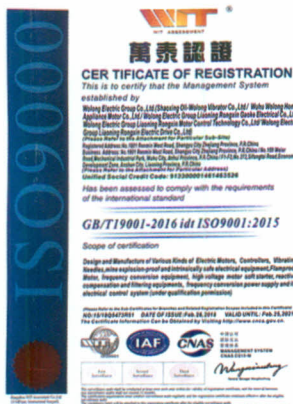
Test system



Quality system



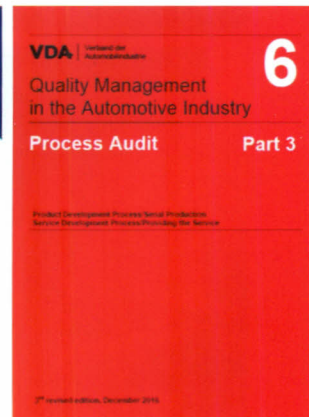
ISO14001



ISO9001



IATF 16949



VDA 6.3

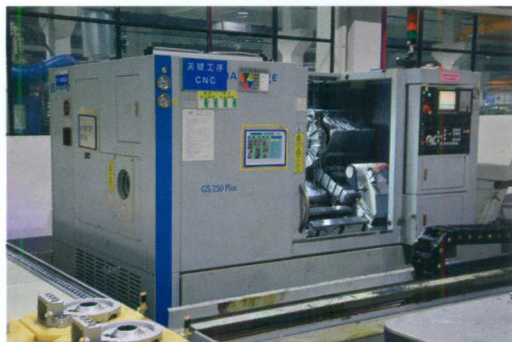
Production system



▲ High speed flushing



▲ Fixed digital production line



▲ CNC machining



▲ Gold processing digital production line



▲ Flexible assembly digital production line



▲ AGV



▲ Integrative testing

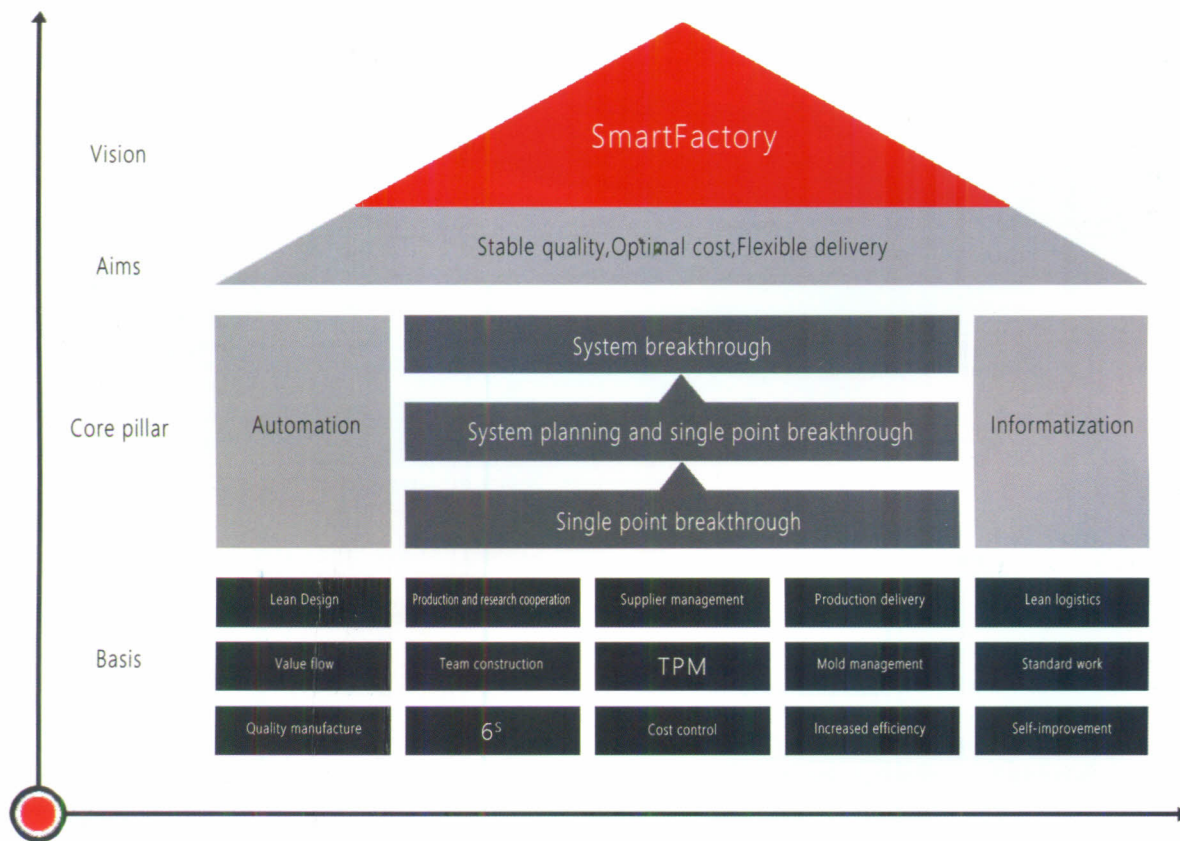


▲ Stereoscopic warehouse

Intelligent factory

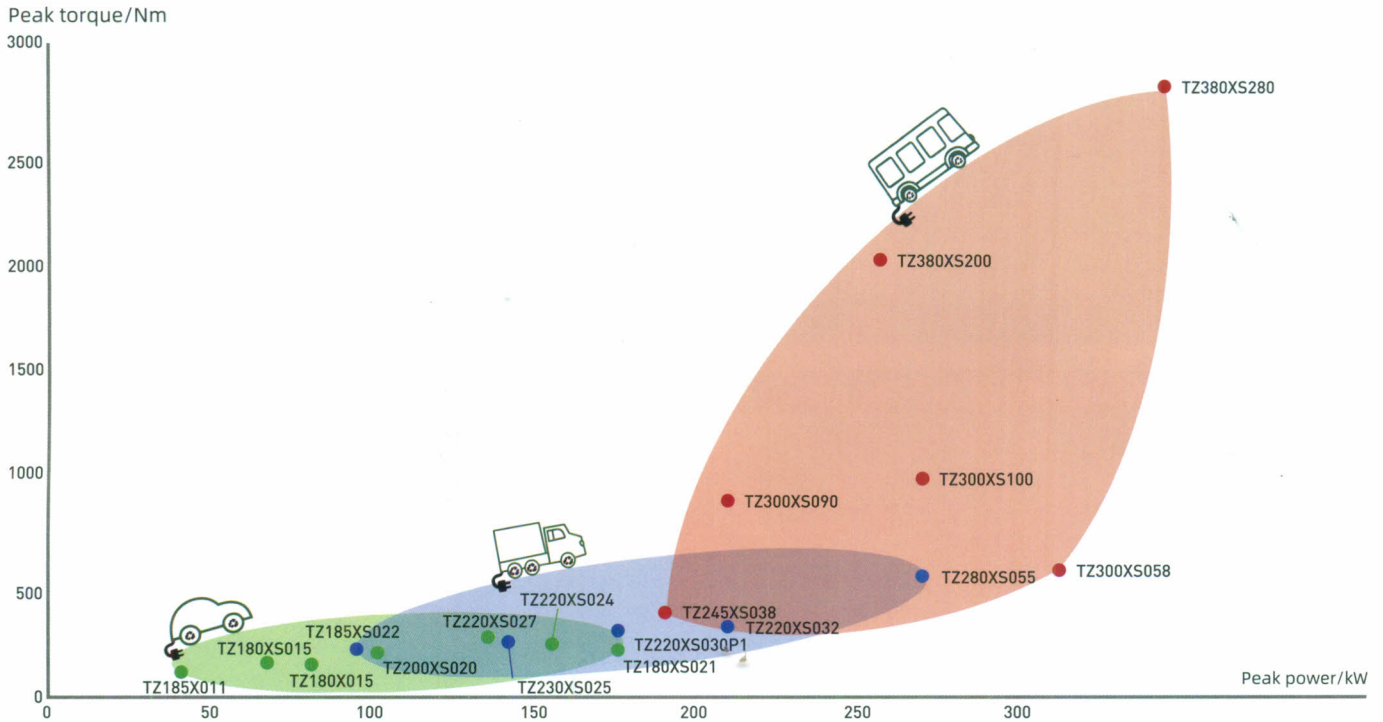
According to the "China made 2025" strategy of "making 2025" and the national policy of energy saving and emission reduction, Wolong EV motor business division has developed the core software and hardware of production management, integrating the key technologies such as virtual simulation and information security, and integrating the key technology and equipment such as CNC machine tools to realize the integration of many systems, such as integration of R & D design and so on, in accordance with the "China made 2025" strategy and national policy of energy saving and emission reduction. We can build a new model, build a digital workshop with a number of key technologies, such as the independent intellectual property rights, such as stamping and other key technologies, and put into practice.

Intelligent manufacturing system framework

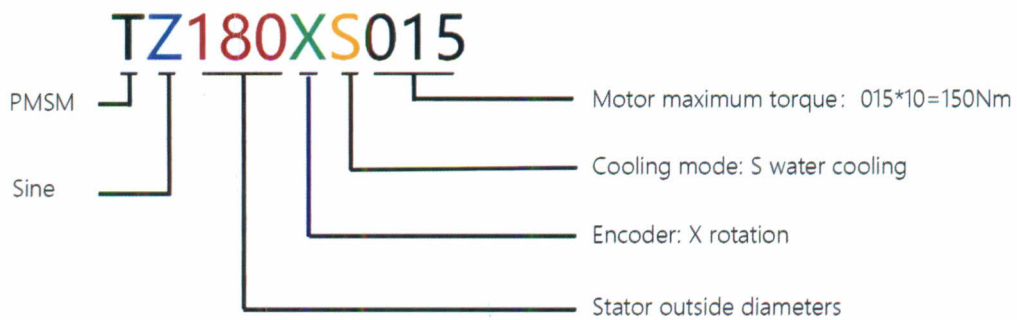


Based on "lean", "automation" and "informatization" are the pillars and through the integration of "lean, automated, and informatized", the "five-quality, stable cost, flexible delivery" five and five-modes smart factory.

Motor type spectrum



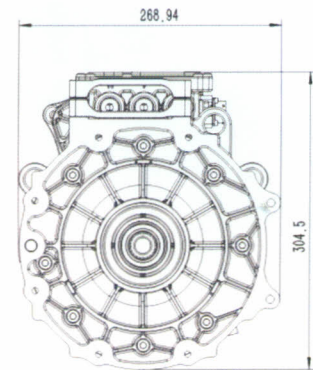
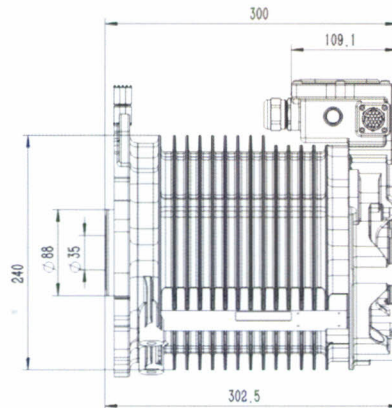
Model naming



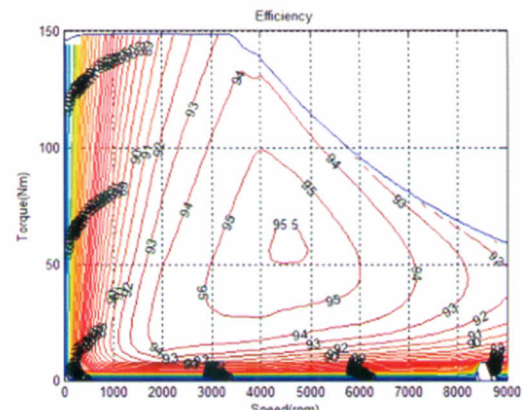
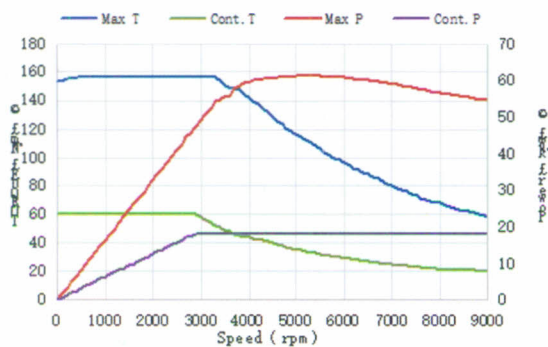
Motor advantage

- The efficiency of the motor is high and the high efficiency area is wide.
- Low speed, high torque, high speed and constant power.
- The power density is high and the torque density is high.
- Small size, light weight, low noise, low vibration and high reliability.

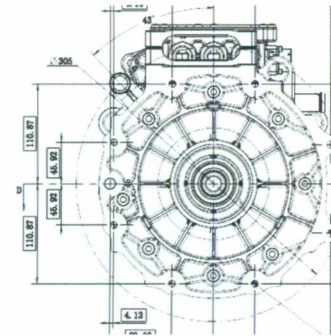
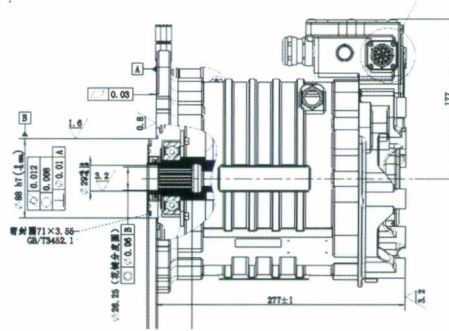
TZ180X015



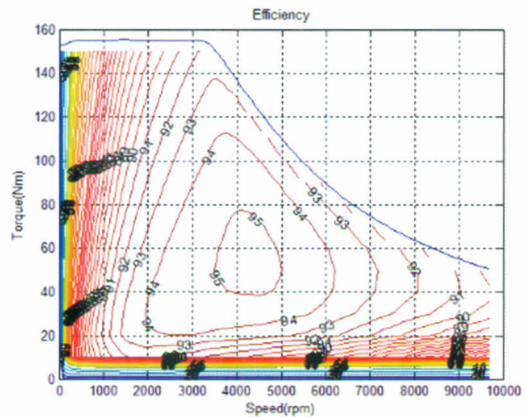
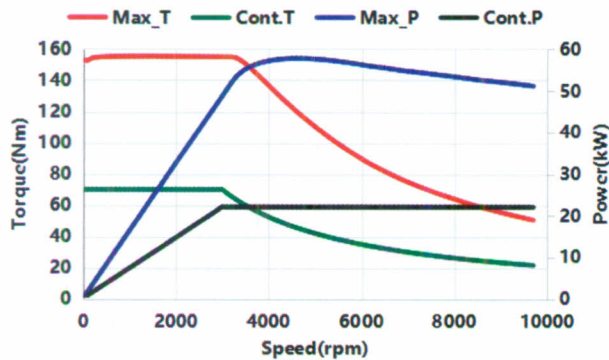
Motor Type	PMSM	No.	TZ180X015
Connection	Y	Cooling	air
Rated voltage (VDC)	336	BackEMF (V peak)	540V@10000rpm
Rated power (kW)	18	Peak power (kW)	60
Rated torque (Nm)	60	Peak torque (Nm)	145
Rated speed (rpm)	2850	Peak speed (rpm)	9000
Insulation	H	Ingress Protection	IP67
Size (mm)	∅210*L293	Max current (Arms)	200A
Mass (KG)	34	Duty	S9



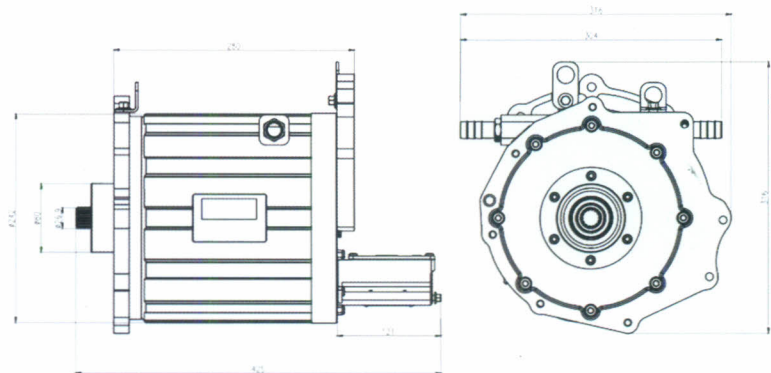
TZ180XS015



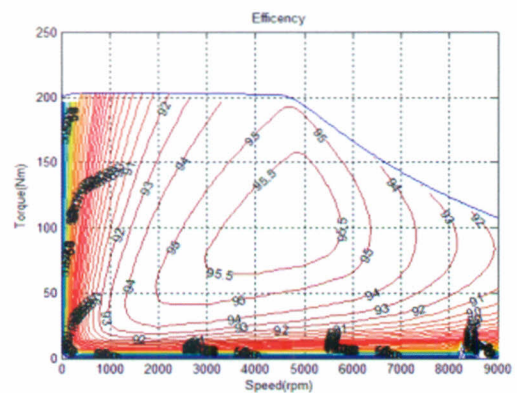
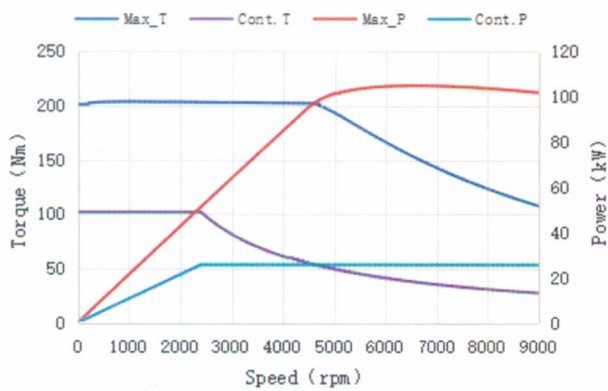
Motor Type	PMSM	No.	TZ180XS015
Connection	Y	Cooling	Liquid
Rated voltage (VDC)	292	Back EMF (V peak)	540V@10000rpm
Rated power (kW)	22	Peak power (kW)	50
Rated torque (Nm)	70	Peak torque (Nm)	150
Rated speed (rpm)	2850	Peak speed (rpm)	9700
Insulation	H	Ingress Protection	IP67
Size (mm)	Φ 217*L277	Max current (Arms)	230A
Mass (KG)	34	Duty	S9



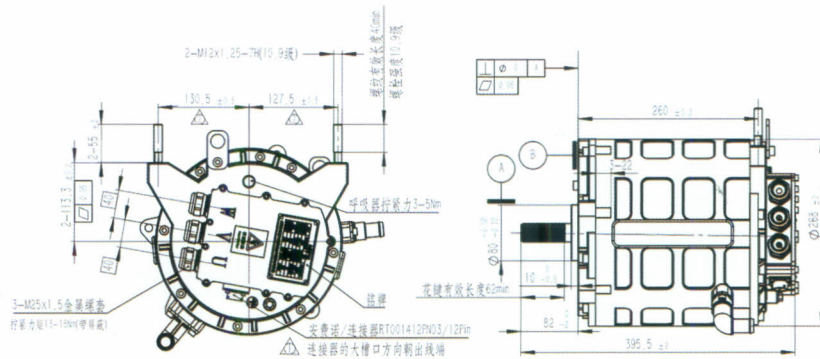
TZ200XS020



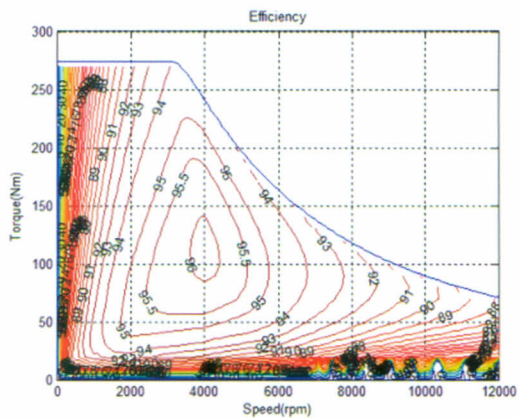
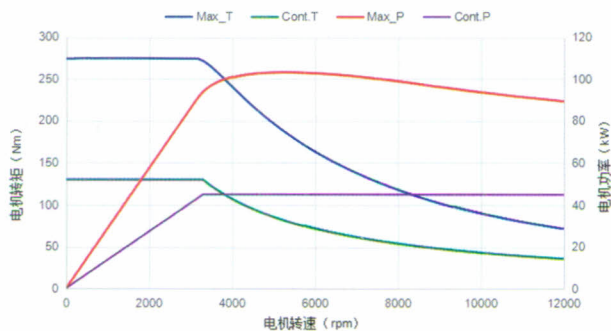
Motor Type	PMSM	No.	TZ200XS020
Connection	Y	Cooling	Liquid
Rated voltage (VDC)	336	BackEMF (V peak)	585@9000rpm
Rated power (kW)	30	Peak power (kW)	75
Rated torque (Nm)	102	Peak torque (Nm)	200
Rated speed (rpm)	3000	Peak speed (rpm)	9000
Insulation	H	Ingress Protection	IP67
Size (mm)	Φ 242X280	Max current (Arms)	280A
Mass (KG)	47	Duty	S9



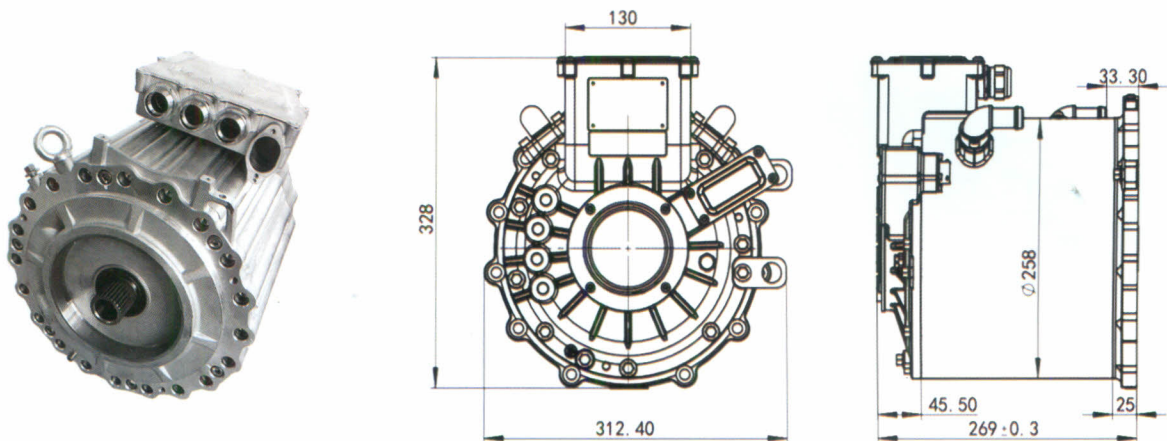
TZ220XS027



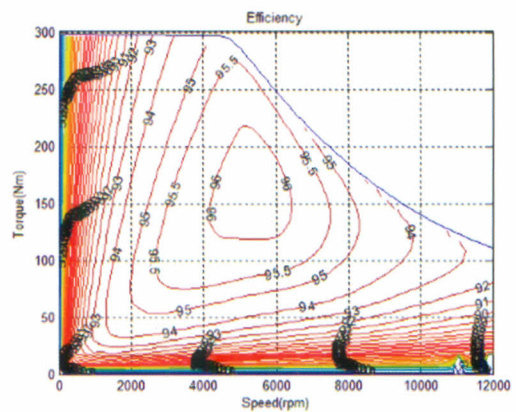
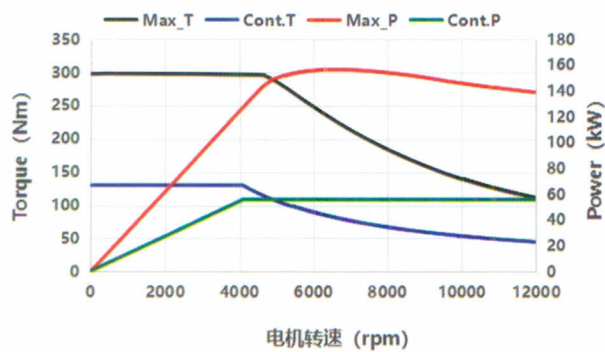
Motor Type	PMSM	No.	TZ220XS027
Connection	Y	Cooling	Liquid
Rated voltage (VDC)	340	Back EMF (V peak)	830V@12000rpm
Rated power (kW)	45	Peak power (kW)	100(60S)
Rated torque (Nm)	130	Peak torque (Nm)	270(60S)
Rated speed (rpm)	3300	Peak speed (rpm)	12000
Insulation	H	Ingress Protection	IP67
Size (mm)	Φ 268*L395	Max current (Arms)	295
Mass (KG)	50kg	Duty	S9



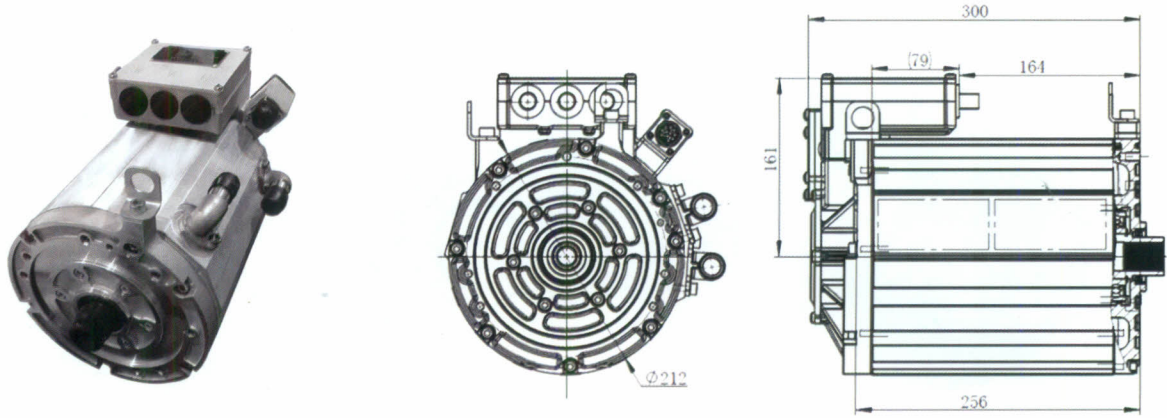
TZ220XS030P1



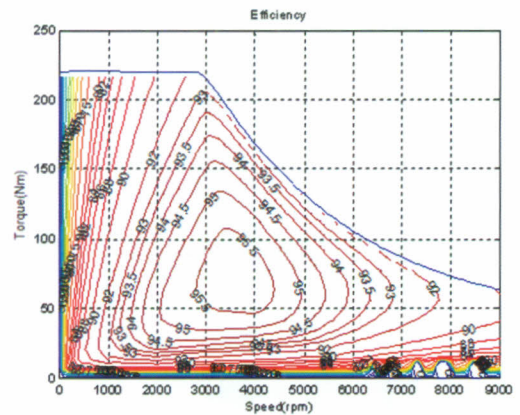
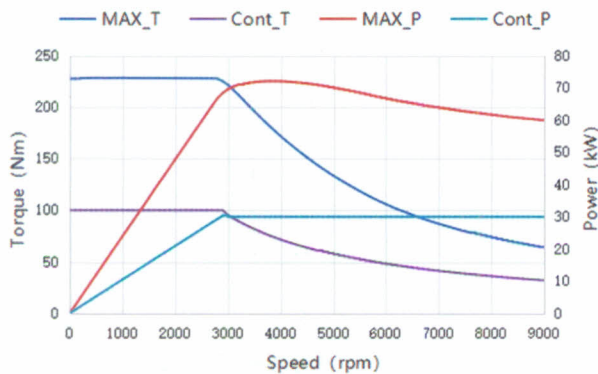
Motor Type	PMSM	No.	TZ220XS030P1
Connection	Y	Cooling	Liquid
Rated voltage (VDC)	360	Back EMF (V peak)	630V@12000rpm
Rated power (kW)	55	Peak power (kW)	130
Rated torque (Nm)	130	Peak torque (Nm)	300
Rated speed (rpm)	4000	Peak speed (rpm)	12000
Insulation	H	Ingress Protection	IP67
Size (mm)	φ 269*270	Max current (Arms)	470
Mass (KG)	50	Duty	S9



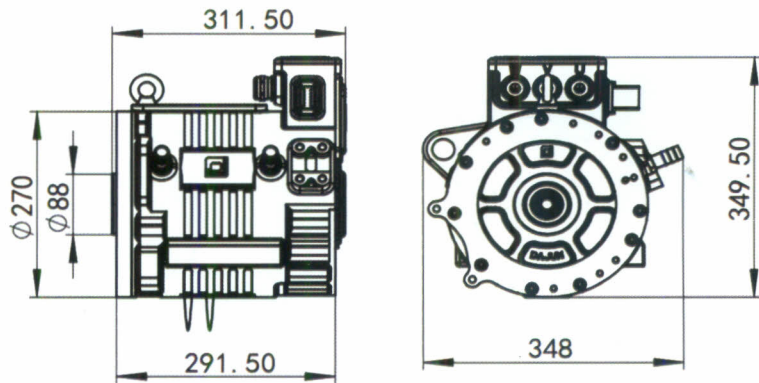
TZ185XS022



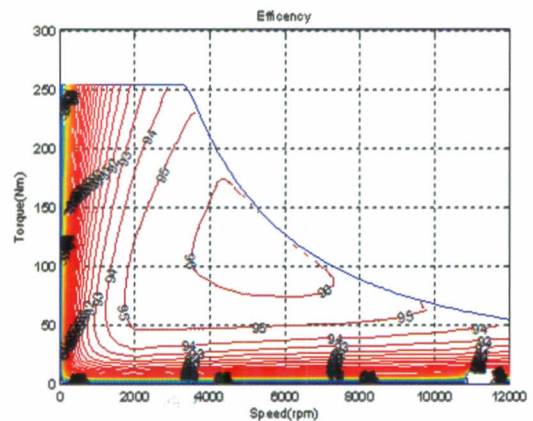
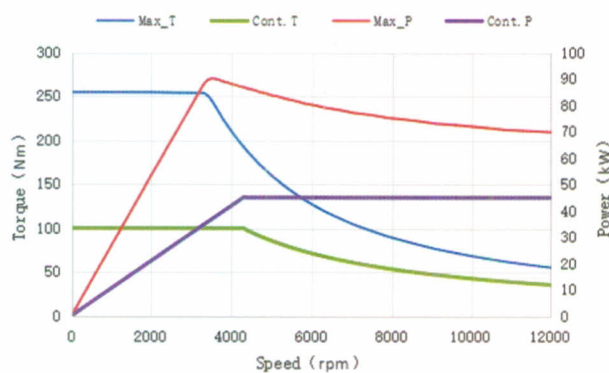
Motor Type	PMSM	No.	TZ185XS022
Connection	Y	Cooling	Liquid
Rated voltage (VDC)	290	BackEMF (V peak)	515@9000rpm
Rated power (kW)	30	Peak power (kW)	70
Rated torque (Nm)	100	Peak torque (Nm)	220@60S
Rated speed (rpm)	3000	Peak speed (rpm)	9000
Insulation	H	Ingress Protection	IP67
Size (mm)	Φ 220*L230	Max current (Arms)	270
Mass (KG)	37	Duty	S9



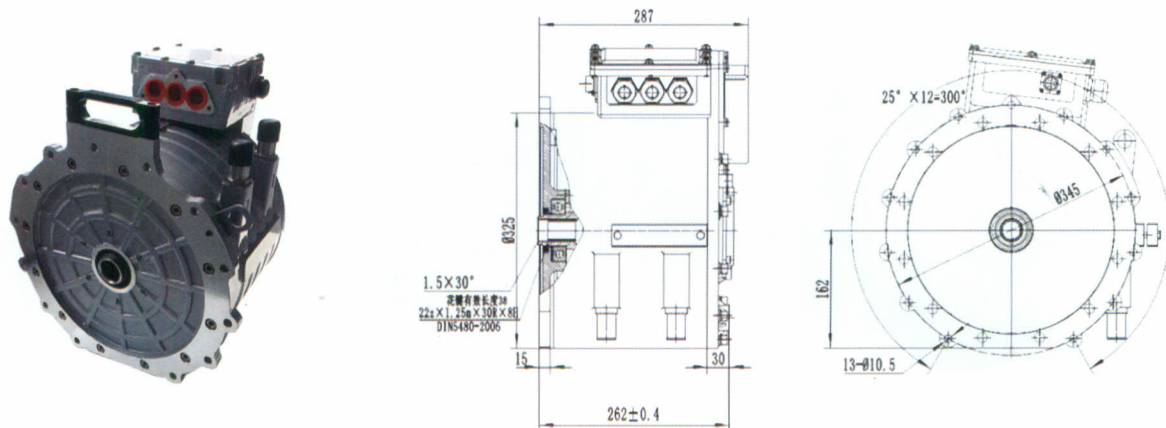
TZ230XS025



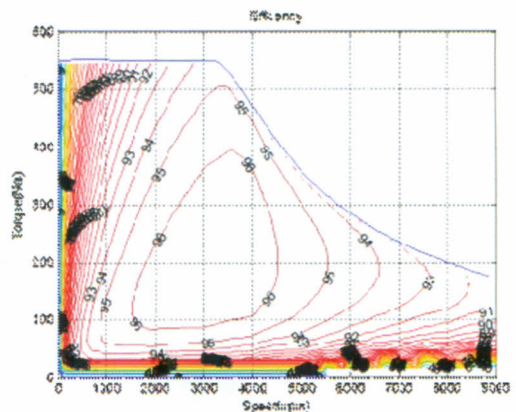
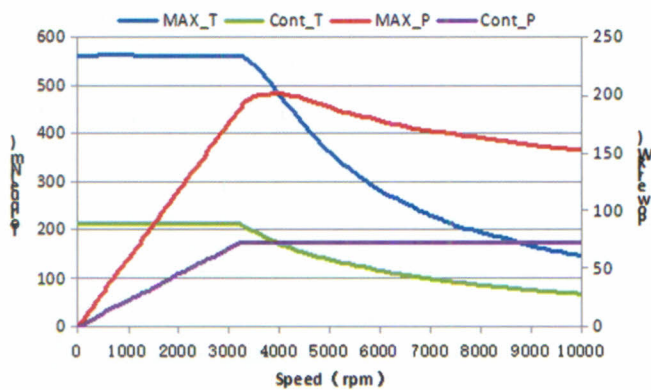
Motor Type	PMSM	No.	TZ230XS025
Connection	Y	Cooling	Liquid
Rated voltage (VDC)	350	BackEMF (V peak)	512@12000rpm
Rated power (kW)	45	Peak power (kW)	105
Rated torque (Nm)	100	Peak torque (Nm)	250
Rated speed (rpm)	4300	Peak speed (rpm)	12000
Insulation	H	Ingress Protection	IP67
Size (mm)	Φ 270X291.5	Max current (Arms)	480
Mass (KG)	72	Duty	S9



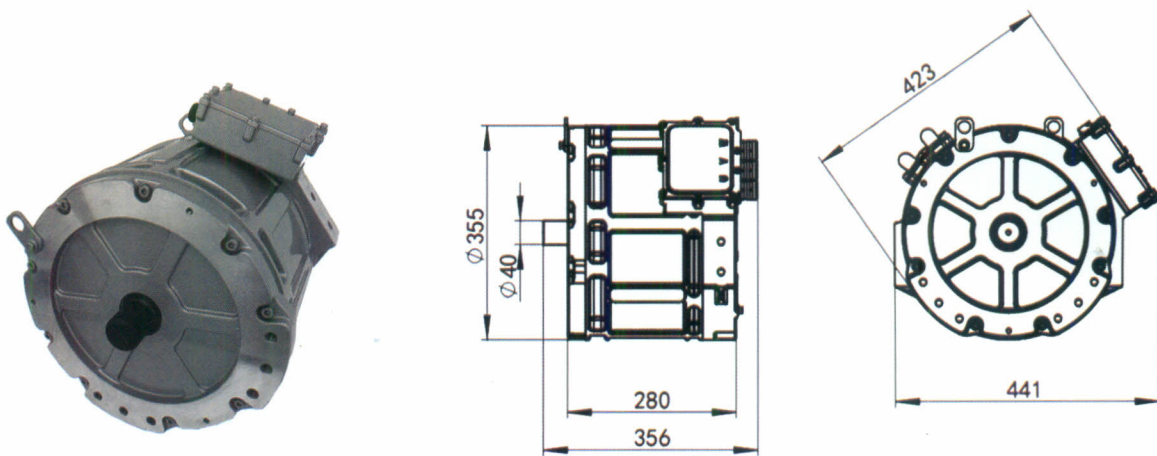
TZ280XS055



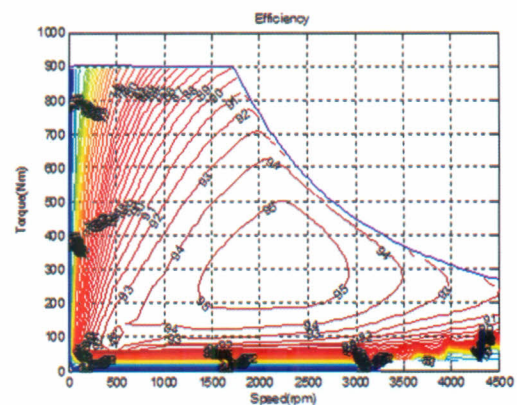
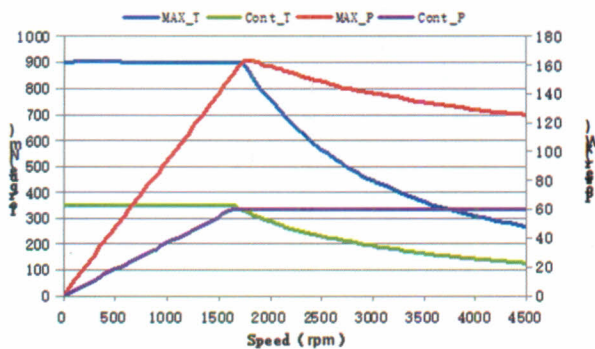
Motor Type	PMSM	No.	TZ280XS055
Connection	Y	Cooling	Liquid
Rated voltage (VDC)	518	BackEMF (V peak)	1026@9000rpm
Rated power (kW)	73	Peak power (kW)	200
Rated torque (Nm)	215	Peak torque (Nm)	550
Rated speed (rpm)	3200	Peak speed (rpm)	9100
Insulation	H	Ingress Protection	IP67
Size (mm)	Φ 325*265	Max current (Arms)	440
Mass (KG)	72	Duty	S9



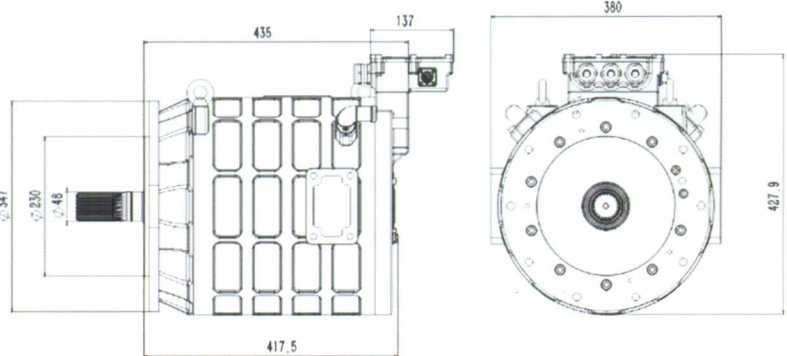
TZ300XS090



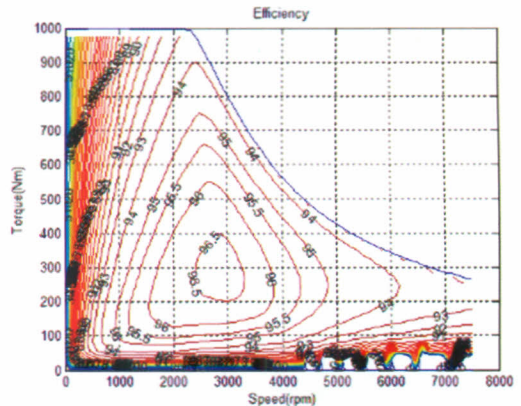
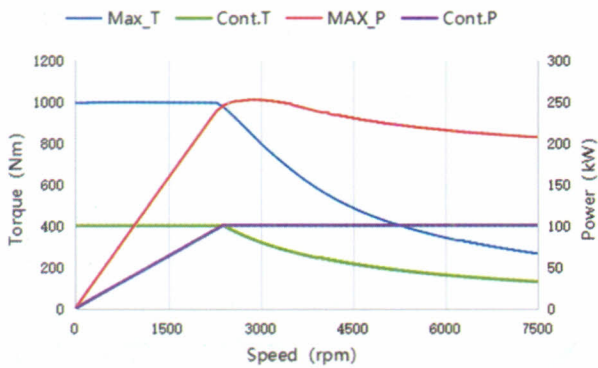
Motor Type	PMSM	No.	TZ300XS090
Connection	Y	Cooling	Liquid
Rated voltage (VDC)	576	BackEMF (V peak)	1000@4500rpm
Rated power (kW)	60	Peak power (kW)	155
Rated torque (Nm)	350	Peak torque (Nm)	750@60S 900@40S
Rated speed (rpm)	1640	Peak speed (rpm)	4500
Insulation	H	Ingress Protection	IP67
Size (mm)	φ 355X280	Max current (Arms)	470A@900Nm 350A@750Nm
Mass (KG)	90	Duty	S9



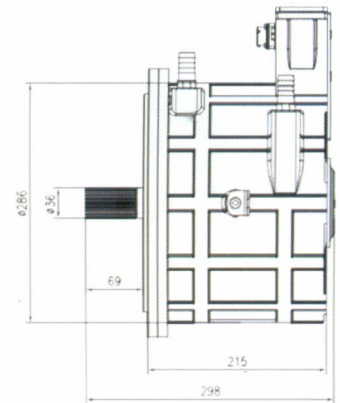
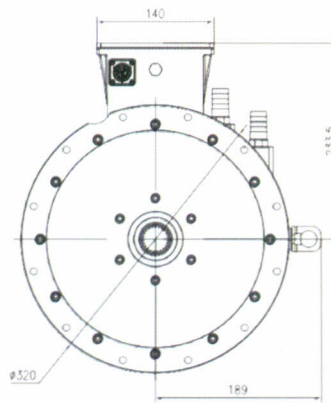
TZ300XS100



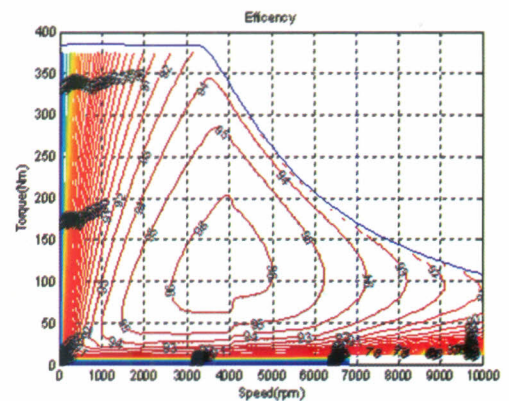
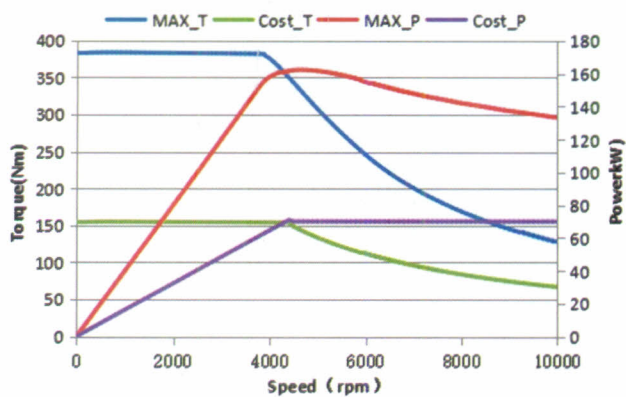
Motor Type	PMSM	No.	TZ300XS100
Connection	Y	Cooling	Liquid
Rated voltage (VDC)	540	BackEMF (V peak)	1050@7500rpm
Rated power (kW)	100	Peak power (kW)	200
Rated torque (Nm)	400	Peak torque (Nm)	1000@30S
Rated speed (rpm)	2400	Peak speed (rpm)	7500
Insulation	H	Ingress Protection	IP67
Size (mm)	φ 380*L399	Max current (Arms)	540A
Mass (KG)	130kg	Duty	S9



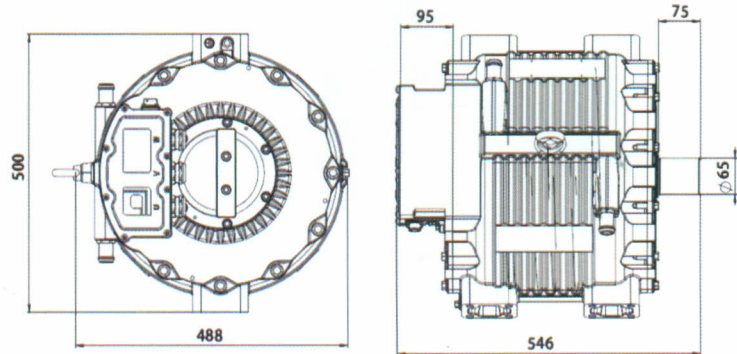
TZ245XS038



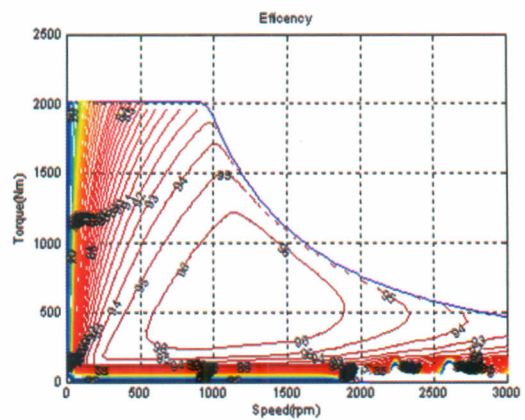
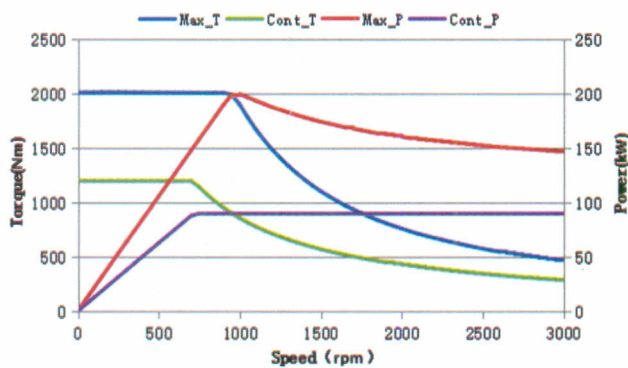
Motor Type	PMSM	No.	TZ245XS038
Connection	Y	Cooling	Liquid
Rated voltage (VDC)	384	BackEMF (V peak)	656@10000rpm
Rated power (kW)	70	Peak power (kW)	141
Rated torque (Nm)	150	Peak torque (Nm)	382
Rated speed (rpm)	2800	Peak speed (rpm)	10000
Insulation	H	Ingress Protection	IP67
Size (mm)	$\varnothing 286 \times 215$	Max current (Arms)	500
Mass (KG)	59.5	Duty	S9



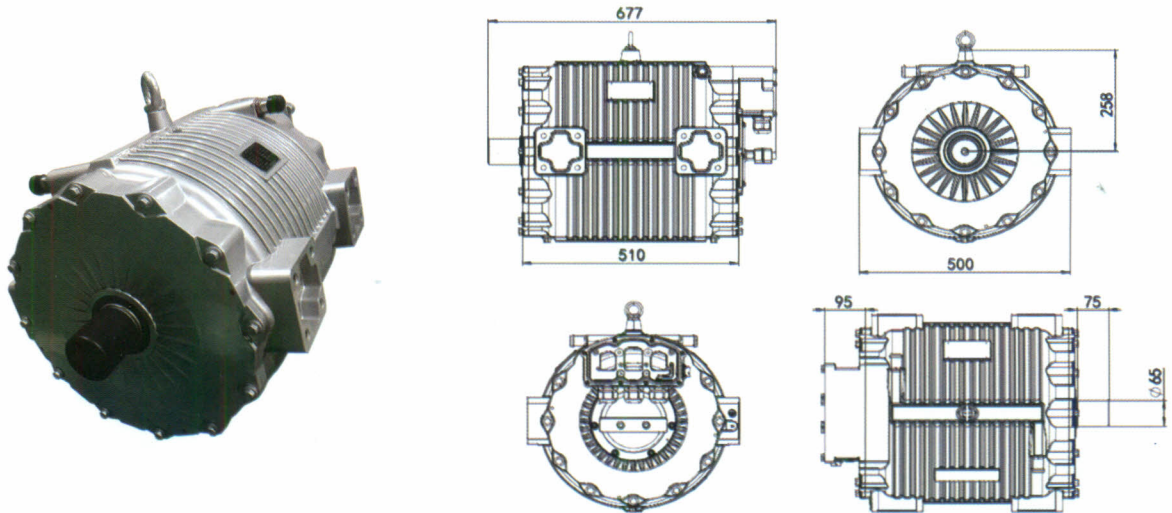
TZ380XS200



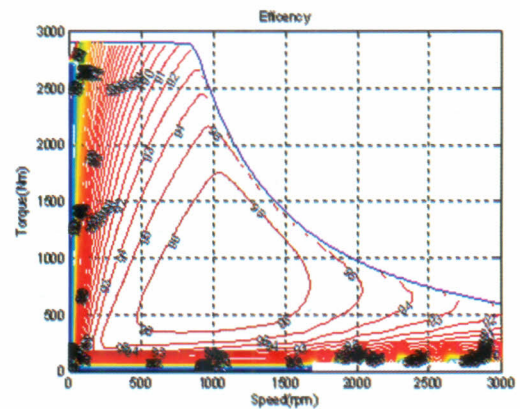
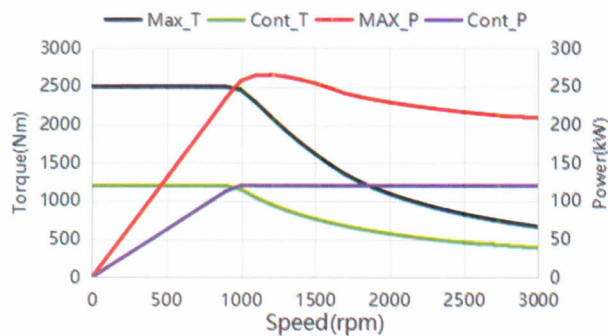
Motor Type	PMSM	No.	TZ380XS200
Connection	Y	Cooling	Liquid
Rated voltage (VDC)	540	BackEMF (V peak)	1120@3200rpm
Rated power (kW)	90	Peak power (kW)	190
Rated torque (Nm)	1200	Peak torque (Nm)	2000
Rated speed (rpm)	760	Peak speed (rpm)	3000
Insulation	H	Ingress Protection	IP67
Size (mm)	φ 445*380	Max current (Arms)	565
Mass (KG)	226	Duty	S9



TZ380XS280



Motor Type	PMSM	No.	TZ380XS280
Connection	Y	Cooling	Liquid
Rated voltage [VDC]	576	BackEMF [V peak]	1120
Rated power [kW]	100	Peak power [kW]	255
Rated torque [Nm]	1250	Peak torque [Nm]	2800/2500
Rated speed [rpm]	800	Peak speed [rpm]	3000/3500
Insulation	H	Ingress Protection	IP67
Size [mm]	φ 445X510	Max current [Arms]	565
Mass [KG]	320	Duty	S9



Brand Family



Wolong Group

Wolong, a world leading manufacturer of motor and drive control solutions, was founded in 1984. After more than 30 years of innovative development, Wolong has established 39 manufacturing plants spreading across the world in China, Vietnam, Britain, Germany, Austria, Italy, Poland, Serbia, Mexico and India, with 10 brands worldwide plus 3 technology centers and employing more than 18,000 professionals.

WOLONG 卧龙

Power your future



WL_EV_01_EVM_201909_EN_VER1.0



BROOK CROMPTON



GE INDUSTRIAL MOTORS

LAURENCE SCOTT

MORLEY



SCHORCH



WOLONG