



New Driving Force for the Transformation and Upgrading of China's Equipment Industry

SHANGHAI CIITTO SERVO-MOTOR TECHNOLOGY CO.,LTD.

Address: NO. 788, Chuangzhi Road, Xindai,
Pinghu, Jiaxing, Zhejiang Province



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High starting torque,
smooth operation

Permanent Magnet Explosion-proof Motor



势拓伺服

<http://www.ciittoservo.com>

SHANGHAI CIITTO SERVO-MOTOR TECHNOLOGY CO.,LTD.



Unstoppable , Explore a new chapter

SHANGHAI CIITTO SERVO-MOTOR TECHNOLOGY CO.,LTD.

The company manufactures permanent magnet synchronous motors, including servo motors, direct drive motors, explosion-proof motors, electric spindles, and other products. These are widely utilized in various high-end equipment fields, such as intelligent and energy-saving fields.

CIITTO
SERVO

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About XIAMEN TUNGSTEN



Founded in 1958, Listed in 2002

Committed to becoming a world-class innovative enterprise dedicated to scientific development, green development, and harmonious development.

Main Businesses



Tungsten & Molybdenum



Rare Earths



New Energy Materials

Key Data 2023

Revenue: RMB 39.4 billion

Global employees: 17,000+

Total assets: RMB 39.3 billion

Total profit: RMB 2.9 billion

XTC New Energy (688778) was spun off and listed on the STAR Market in 2021

National pilot innovative enterprise

National key high-tech enterprise

National-Local Joint Engineering Research Center for Advanced Energy Storage Materials

Fortune China 500 & China's Top 100 Most Innovative Enterprises

National Engineering Research Center for Tungsten Materials

One of the rare earth groups approved by the State Council

Engineering Research Center for Rare Earth Materials and Applications

State Council "Double Hundred Action" enterprise



Xiamen Tungsten Co., Ltd. is a group-oriented joint-stock company listed on the Shanghai Stock Exchange (Stock Code: 600549). It is mainly engaged in the R&D, production, and sales of tungsten smelting products, tungsten powders, cemented carbide, tungsten and molybdenum wires, and new energy materials.

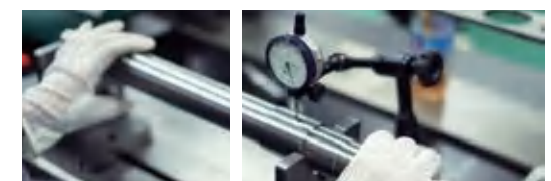
The company is the largest producer and exporter of tungsten and molybdenum products in China. It is also recognized as a national key high-tech enterprise, one of the first circular economy demonstration enterprises in Fujian Province, one of the most competitive listed companies in Fujian, and one of the "Top 10 Most Growth-Potential Listed Companies" nationwide.

About CIITTO SERVO



The company has introduced advanced permanent magnet synchronous motor production lines from both domestic and international sources and has implemented the ISO9001 quality management system. The production facilities are equipped with state-of-the-art equipment. The stator assembly line is equipped with a fully automatic vacuum impregnation machine and an automatic stator comprehensive testing instrument, among other automated devices. The rotor assembly line is equipped with a Schenck dynamic balancing machine from Germany, and the final assembly line is an automated production line. Manual workstations are equipped with high-precision torque wrenches to ensure the precise placement of every bolt.

Xiamen CIITTO Servo-motor Technology Co., Ltd. is a company jointly established by Xiamen Tungsten Industry Co., Ltd. and Xiamen Tungsten Motor Industry Co., Ltd. It is one of the main companies of Xiamen CIITTO Rare Earth Permanent Magnet Motor Industrial Park. The company specializes in the research and development, design, and manufacturing of permanent magnet synchronous motors and high-end intelligent equipment. Based on universal servo motors, it focuses on the development of high-performance permanent magnet motors, special motors, direct drive motors, etc. It deeply develops motor application products and integrated systems, providing customers with overall solutions for power and energy applications.

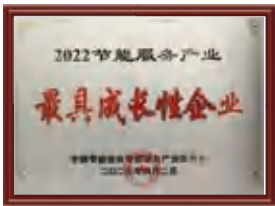




Certificate&Patent Product Certification



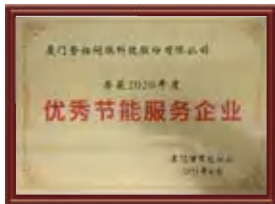
National High-Tech Enterprise



The Most Growing Enterprise
in the Energy Conservation Industry



Award for
Innovative New Energy Companies



Excellent Energy-Saving
Service Enterprise



Green Technology and Products



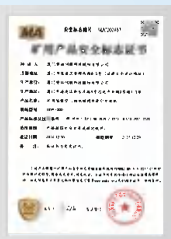
Energy-saving Technology Products



SMEs with Specialization, Refinement
Innovation, and High-Tech Focus



Most Promising Investment-Worthy
Companies in the Motion Control Industry



.....



GLOBAL PARTNERS

GEIM
格林美

JINCHUAN 金川

廣州酒家
GUANGZHOU RESTAURANT
— Since 1935 —

Southelec 南电电气

福建冶金
FUJIAN YEJIN

威海化机

XTC
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KNK 凯米克

SECUTRA
湘牵工业

Global-Partners
<<<< Co-create Win-win >>>>

MEGMEET

名舜机械

THM

TIANTUO

五得利
WUDELI

祥泰科技
XIANGTAI KEJI

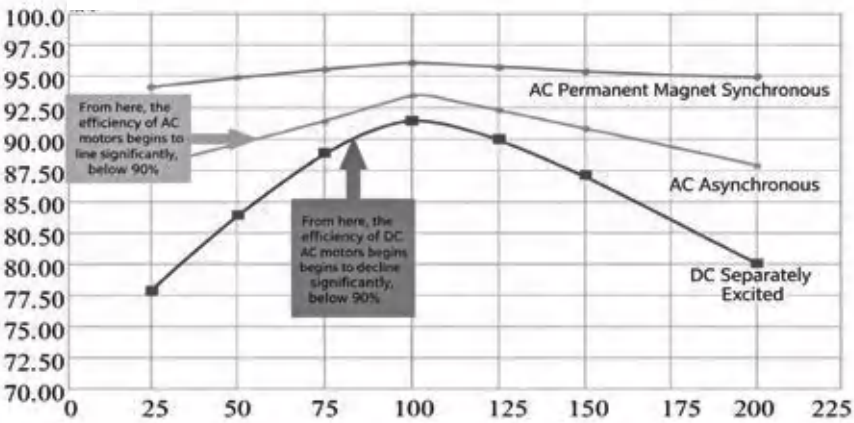
福建三钢

南平铝业
NANPING ALUMINIUM

POWER 帕瓦



General energy-saving case

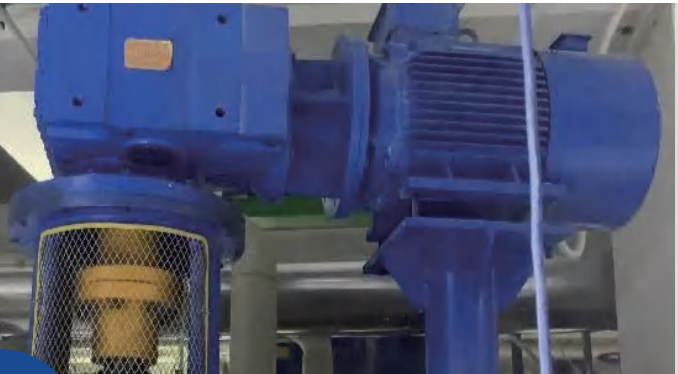


Efficiency comparison of different motors under different load rates

Most commercially available asynchronous motors currently only meet the Level 2 energy efficiency standard specified in GB18613. To achieve Level 1 energy efficiency, asynchronous motors require significant increases in selling price, production cost, and overall motor length.

In contrast, permanent magnet motors offer greater advantages in this regard. Under identical operating conditions, permanent magnet motors feature higher power density, enabling a more compact footprint compared to asynchronous motors. They can also achieve higher energy efficiency ratings without increasing the motor's axial length, making them particularly advantageous for applications with limited installation space.

Furthermore, permanent magnet motors maintain higher efficiency across all load rates compared to asynchronous motors, with significantly more stable performance.

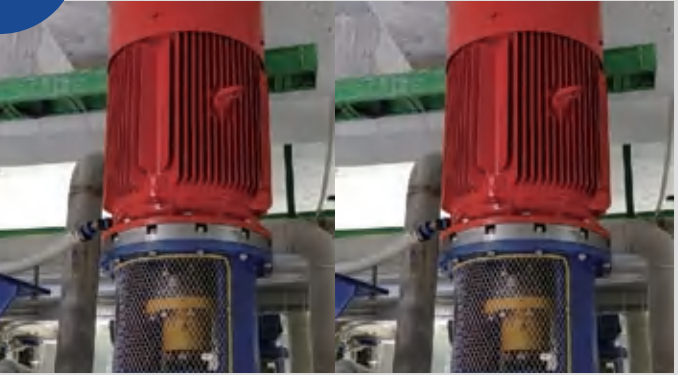


≥27%
Energy saving rate
Energy efficiency

Before modification:
30kW, 1500rpm electric motor + reducer

Point name	Cycle	Duration	Cycle power consumption	Hourly power consumption	Energy saving rate
Before modification	2023/1/4-2023/2/1	672H	4655kwh	6.9kwh/h	27.47%
After modification	2023/1/4-2023/2/1	672H	6418kwh	9.5kwh/h	

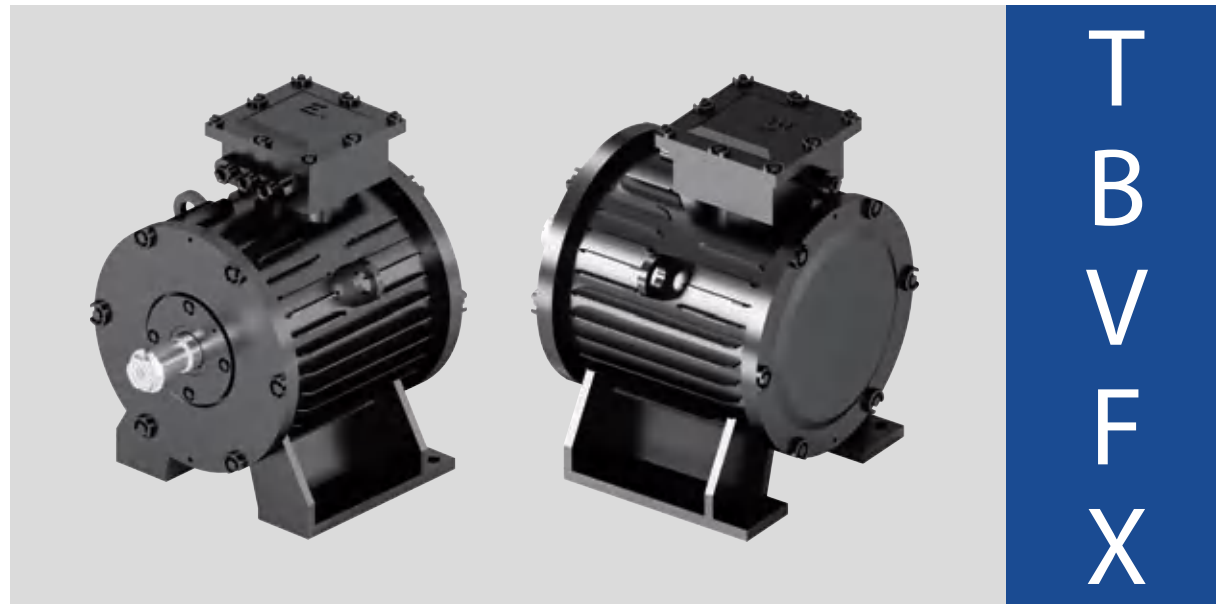
Average hourly electricity saving is 2.624 kWh, with electricity price at 0.5 yuan/kWh, hourly cost saving of 1.312 yuan, estimated payback period is 1 year.



After modification, 15kW, 150rpm direct drive motor

Against the backdrop of national energy conservation and emission reduction as well as corporate cost reduction and efficiency improvement, how to reduce carbon emissions and operating costs of enterprises has become a key concern. According to statistics, the total electricity consumption of various types of electric motors accounts for 60% of China's annual electricity consumption. Therefore, reducing motor energy consumption and improving motor efficiency can not only lower carbon emissions but also save a significant amount of electricity costs.

TBVFX series mining explosion-proof permanent magnet synchronous variable frequency motor



Product Features

The TBVFX series motors are suitable for connection to VVVF inverters (frequency converters / electronic converters), powered by batteries, and used for electric traction in railway rolling stock (installed in locomotive cabs). They can also operate safely in coal mine (non-excavation face) gas environments. The duty type is S2-60min, and the cooling method is natural cooling (IC410).

All TBVFX series motors are equipped with a resolver to enable closed-loop control (precise control), meeting the requirements of intelligent mines, unmanned driving, etc. When closed-loop control is not required (open-loop control), simply disconnecting the resolver circuit will suffice; the motor's explosion protection and electrical performance remain completely unaffected.

The performance indicators of the TBVFX series motors—such as temperature rise, maximum pull-out torque, efficiency, power factor, noise, vibration, etc.—comply with the requirements of Q/CTS JT002-2020 Technical Specifications for TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motors (Frame Sizes 181, 248, 340). Among these, the efficiency indicators are all higher than Level 2 energy efficiency in GB 30253-2013, and those exceeding Level 1 energy efficiency or above account for 53% of the model spectrum.

Application Industries & Operating Conditions



Electric traction for railway rolling stock powered by batteries



Coal mine (non-excavation face) gas atmosphere environments

Altitude not exceeding 1000m | Ambient air temperature -20°C to 40°C

Ambient relative humidity $\leq 95\%$ | Suitable for coal mine (non-excavation face) gas atmospheres

Product Advantages

01 High starting torque

Maximum overload up to 3 times rated torque.

02 Smooth operation, low vibration

Vibration value $\leq 0.3 \text{ mm/s}$ during operation; shaft extension end face runout accuracy up to $1 \mu\text{m}$.

03 Low noise, fast response

Operating noise as low as 55 dB(A); reaches rated speed within 2 seconds; can output rated torque immediately after start-up from standstill.

For the same motor parameters, the TBVFX series can be 1–2 frame sizes smaller than an induction motor.



Explosion-proof Marking Description

- Ex

Explosion-proof marking
- db

Flameproof enclosure, for EPL Gb or Mb
- I

Equipment Category I: equipment used in coal mine methane environments.
- Mb

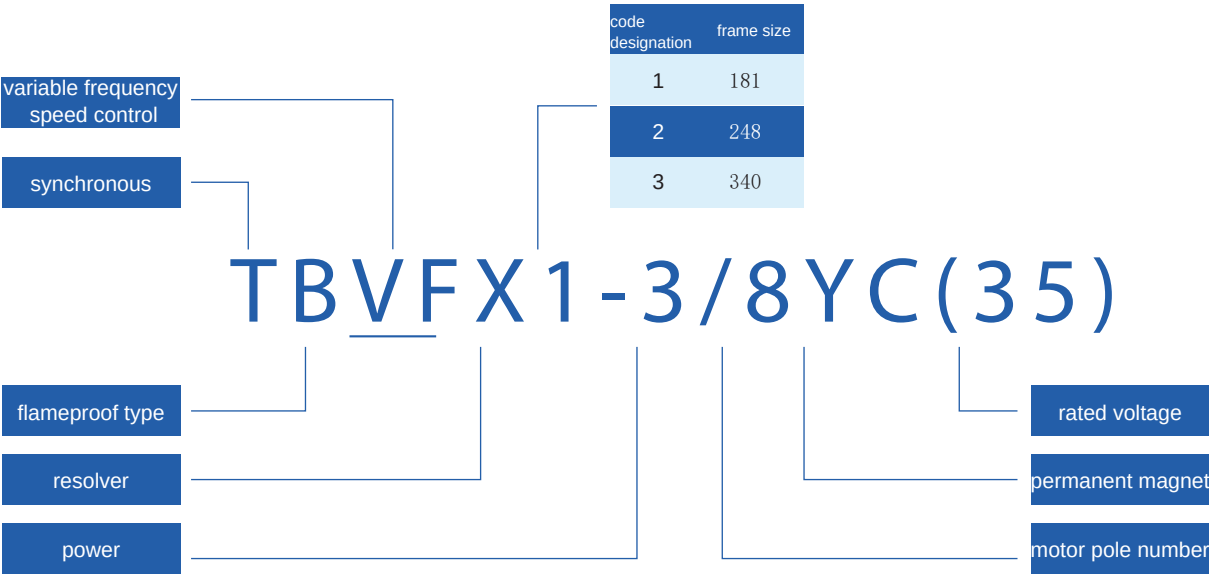
Equipment installed in coal mine explosive gas environments is designed with a “high” level of protection.



The maximum permissible surface temperature for Category I electrical equipment shall not exceed:

- 150°C, when coal dust may accumulate on the surface of the electrical equipment;
- 450°C, when coal dust does not accumulate on the surface, or effective measures are taken to prevent dust accumulation.

Naming rules



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range											
Motor Model	Frame Size	Number of Poles	Rated Power	Rated Voltage	Rated Current	Rated Torque	Rated Speed	Efficiency	Power Factor	Pull-out Torque	Net Weight
			Kw	V	Arms	Nm	rpm	%			
TBVFX1-3/8YC(35)	181	8	3	35	82.7	24	1180	89.6	0.92	2.5	98
TBVFX1-3.5/8YC(35)	181	8	3.5	35	95.6	28	1180	90.3	0.9	2.1	98
TBVFX1-4/8YC(35)	181	8	4	35	108.1	32	1180	90.4	0.88	2.1	98
TBVFX1-4.5/8YC(35)	181	8	4.5	35	143	43	1000	88.8	0.86	1.8	98
TBVFX1-4.5/8YC(35)	181	8	4.5	35	120.8	36	1180	90.3	0.84	2	98
TBVFX1-5.5/8YC(35)	181	8	5.5	35	142	45	1180	90.6	0.88	2	100
TBVFX1-6/8YC(35)	181	8	6	35	151.7	49	1180	90.9	0.95	2	100
TBVFX1-7.5/8YC(35)	181	8	7.5	35	181.2	61	1180	92.7	0.96	2	100
TBVFX1-3/8YC(65)	181	8	3	65	45	13	2200	90.3	0.99	4.5	98
TBVFX1-3.5/8YC(65)	181	8	3.5	65	52	15.2	2200	95.4	0.99	3.8	98
TBVFX1-4/8YC(65)	181	8	4	65	59	17.4	2200	95.6	0.99	3.3	98
TBVFX1-4.5/8YC(65)	181	8	4.5	65	65.5	19.5	2200	95.7	0.99	3	98
TBVFX1-5.5/8YC(65)	181	8	5.5	65	75.3	23.9	2200	95.8	0.98	3	100
TBVFX1-6/8YC(65)	181	8	6	65	82	26	2200	95.9	0.98	3	100
TBVFX1-7.5/8YC(65)	181	8	7.5	65	101.3	32.6	2200	96.1	0.97	2	100
TBVFX1-8/8YC(65)	181	8	8	65	103.9	34.7	2200	96.3	0.97	2	100
TBVFX1-11/8YC(65)	181	8	11	65	144	47.8	2200	96.5	0.96	2	100
TBVFX2-4/8YC(35)	181	8	4	35	84.4	33	1170	93.3	0.96	2.6	157
TBVFX2-4.5/8YC(35)	248	8	4.5	35	108.7	43	1000	93.2	0.94	2.1	157
TBVFX2-5.5/8YC(35)	248	8	5.5	35	114.8	46	1130	93.3	0.98	2	157
TBVFX2-6/8YC(35)	248	8	6	35	126.5	49	1170	93.5	0.99	2	157
TBVFX2-7.5/8YC(35)	248	8	7.5	35	153.4	63	1130	94.2	0.98	1.8	157
TBVFX2-8/8YC(35)	248	8	8	35	165.8	68	1130	94.4	0.99	1.8	157
TBVFX2-7.5/8YC(65)	248	8	7.5	65	96.1	72	1000	93.3	0.94	2.2	141



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range											
Motor model	Frame Size	Number of Poles	Rated Power	Rated Voltage	Rated Current	Rated Torque	Rated Speed	Efficiency	Power Factor	Pull-out Torque Ratio	Net Weight
			Kw	V	Arms	Nm	rpm	%			kg
TBVFX2-7.5/8YC(65)	248	8	7.5	65	84.3	63	1130	93.1	0.95	2.5	141
TBVFX2-8/8YC(65)	248	8	8	65	90.7	68	1130	93.1	0.94	2.5	141
TBVFX2-11/8YC(65)	248	8	11	65	123.3	93	1130	93.5	0.9	2	141
TBVFX2-15/8YC(65)	248	8	15	65	157.9	127	1130	93.6	0.97	2	157
TBVFX2-7.5/8YC(80)	248	8	7.5	80	94.8	72	1000	91.7	0.94	2.3	141
TBVFX2-8/8YC(80)	248	8	8	80	99.4	76	1000	91.8	0.94	2.2	141
TBVFX2-11/8YC(80)	248	8	11	80	136.8	105	1000	92.2	0.89	2	141
TBVFX2-15/8YC(80)	248	8	15	80	120.4	143	1000	92.5	0.98	2.5	157
TBVFX2-5.5/8YC(240)	248	8	5.5	240	14.7	52	1000	95.1	0.99	3.5	141
TBVFX2-7.5/8YC(240)	248	8	7.5	240	19.3	72	1000	95.2	0.97	2.5	141
TBVFX2-8/8YC(240)	248	8	8	240	20.6	76	1000	95.2	0.97	2.5	141
TBVFX2-11/8YC(240)	248	8	11	240	29.2	105	1000	95.2	0.96	4	157
TBVFX2-15/8YC(240)	248	8	15	240	38.3	143	1000	95.3	0.97	3.2	157
TBVFX3-15/12YC(100)	340	12	15	100	99.8	143.2	1000	95	0.98	2.2	278
TBVFX3-15/12YC(100)	340	12	15	100	94.1	135	1060	94.1	0.98	2.3	278
TBVFX3-22/12YC(140)	340	12	22	140	142.8	210.1	1000	94.9	0.97	1.8	/
TBVFX3-22/12YC(140)	340	12	22	140	121.8	178	1180	94.2	0.97	2	/
TBVFX3-30/12YC(140)	340	12	30	140	141.2	195	1650	95.5	0.95	2	293
TBVFX3-12/12YC(180)	340	12	12	180	48.7	79	1450	92.5	0.91	6	292
TBVFX3-15/12YC(180)	340	12	15	180	74	143.2	1000	94.4	0.95	2.5	292
TBVFX3-15/12YC(180)	340	12	15	180	53.8	143	1250	95.4	0.96	1.8	292
TBVFX3-22/12YC(180)	340	12	22	180	104.3	210.1	1000	95.6	0.92	1.8	292
TBVFX3-22/12YC(180)	340	12	22	180	83.9	210	1250	95.7	0.93	1.8	292
TBVFX3-30/12YC(180)	340	12	30	180	143.9	286.5	1000	95	0.89	1.6	292

Product Parameters

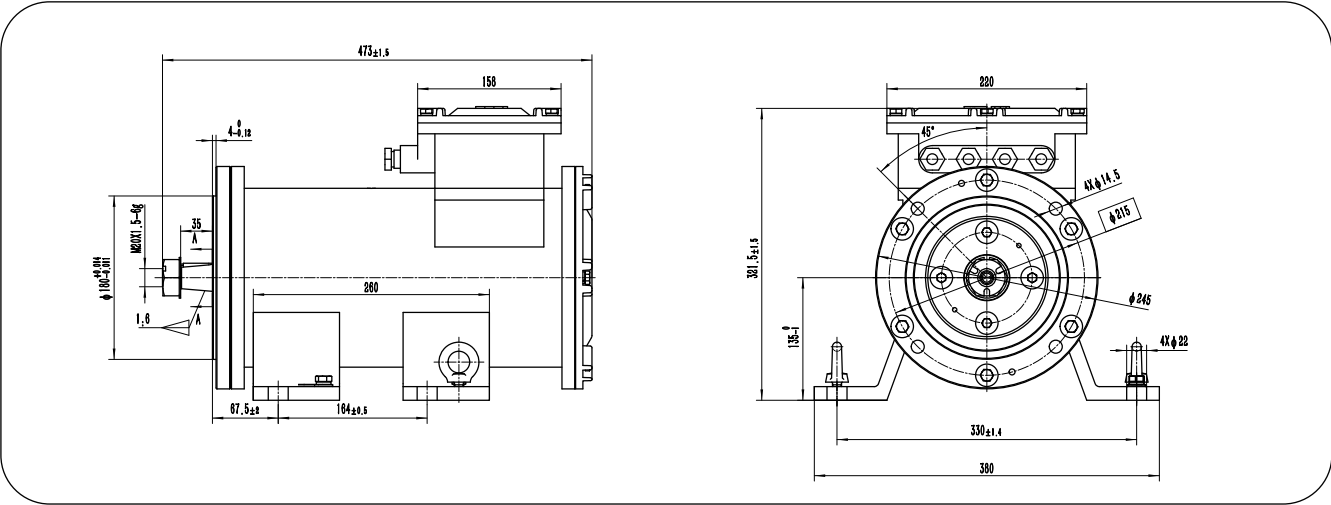
TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range											
Motor Model	Frame Size	Number of Poles	Rated Power	Rated Voltage	Rated Current	Rated Torque	Rated Speed	Efficiency	Power Factor	Pull-out Torque Ratio	Net Weight
			Kw	V	Arms	Nm	rpm	%			kg
TBVFX3-30/12YC(180)	340	12	30	180	125.2	287	1250	95.8	0.91	1.8	292
TBVFX3-34/12YC(180)	340	12	34	180	132	325	1250	96	0.86	1.6	292
TBVFX3-15/12YC(240)	340	12	15	240	55.4	105	1360	94.2	0.97	4.5	292
TBVFX3-22/12YC(240)	340	12	22	240	80.4	155	1360	94.6	0.94	3	292
TBVFX3-30/12YC(240)	340	12	30	240	148.1	286.5	1000	94.5	0.87	1.8	292
TBVFX3-30/12YC(240)	340	12	30	240	93.2	195	1470	94.8	0.94	2.5	292
TBVFX3-34/12YC(240)	340	12	34	240	93.2	180	1800	94.9	0.93	2.7	292
TBVFX3-37/12YC(240)	340	12	37	240	101.2	196	1800	95	0.92	2.5	292
TBVFX3-40/12YC(240)	340	12	40	240	104.5	212	1800	95.1	0.96	2.5	292



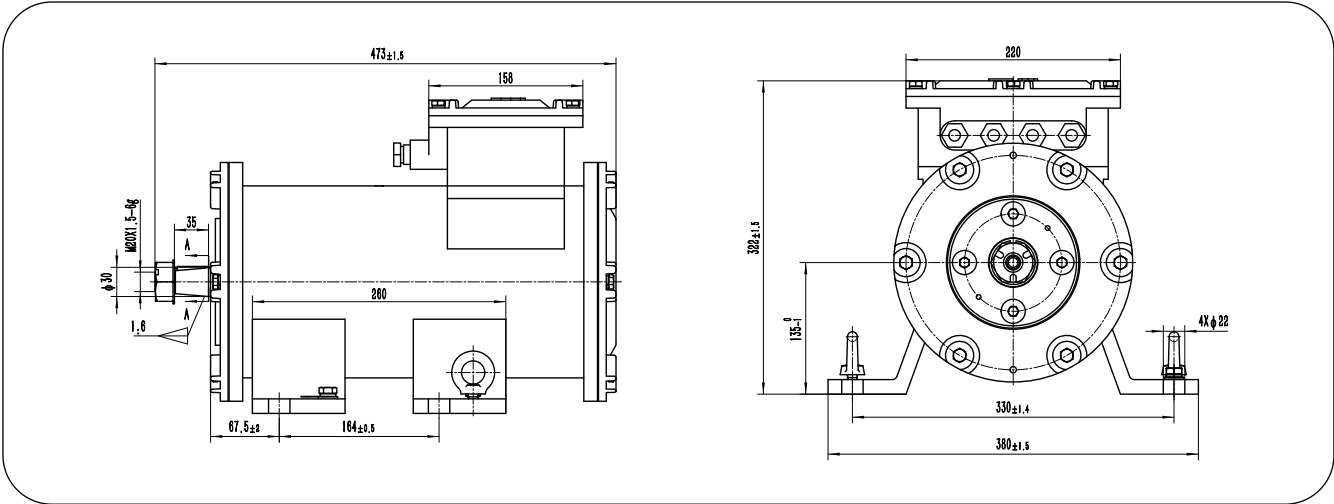
Installation Method

Motor model	Basic Mounting Configuration			Derived Mounting Types								
				IMB5 Type			IMB3 ype				IMB35 Type	
	IMB3	IMB35	IMB5	IMV1	IMV3	IMV5	IMV6	IMB6	IMB7	IMB8	IMV15	IMV36
TBVFx1	√	√	√	√	√	/	/	/	/	/	/	/
TBVFx2	√	√	√	√	√	/	/	/	/	/	/	/
TBVFx3	√	√	√	√	√	/	/	/	/	/	/	/

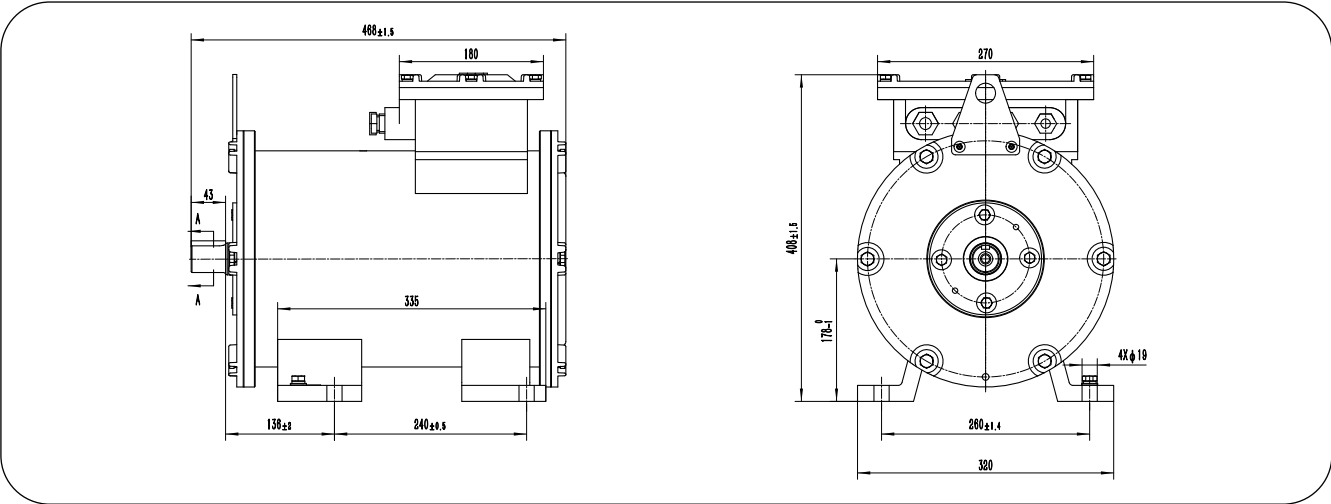
Outline Drawing



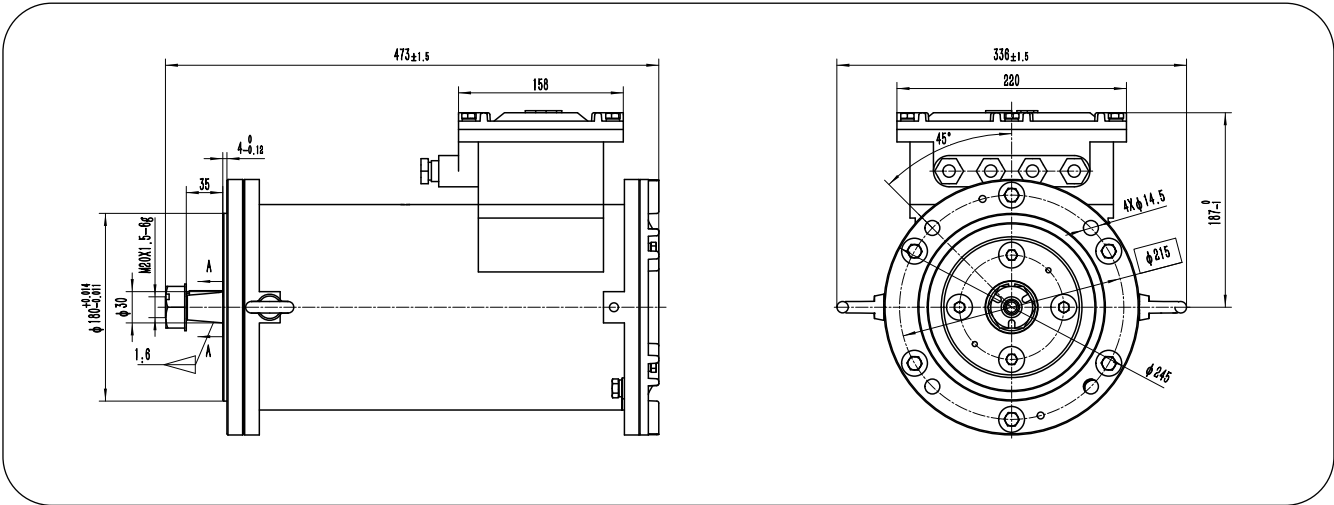
Frame size 181, B35 mounting type outline drawing



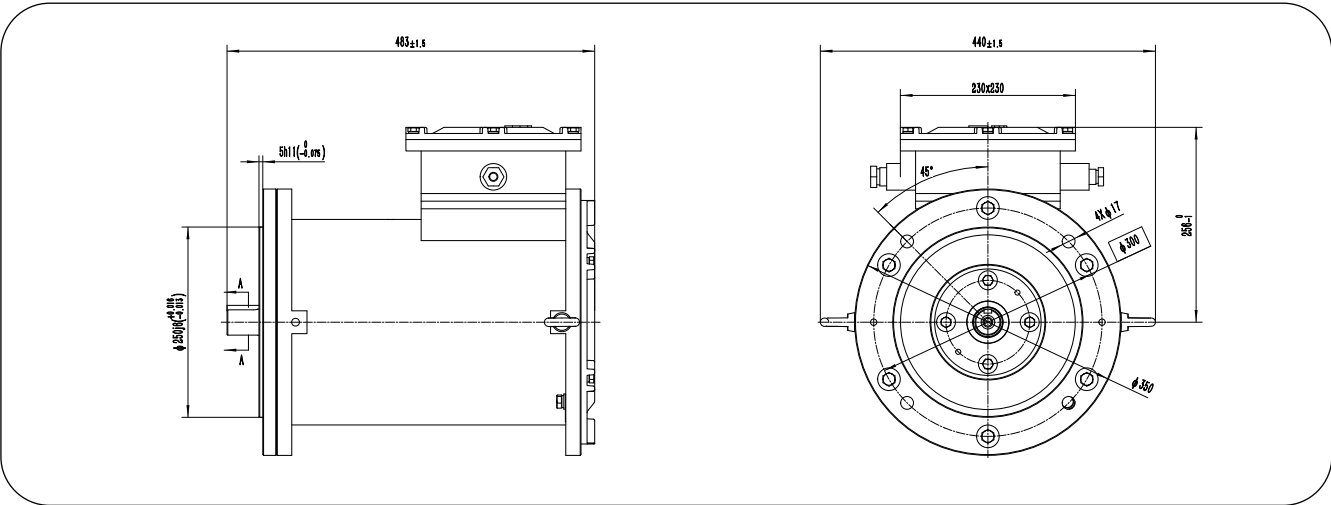
Frame size 181, B3 mounting type outline drawing



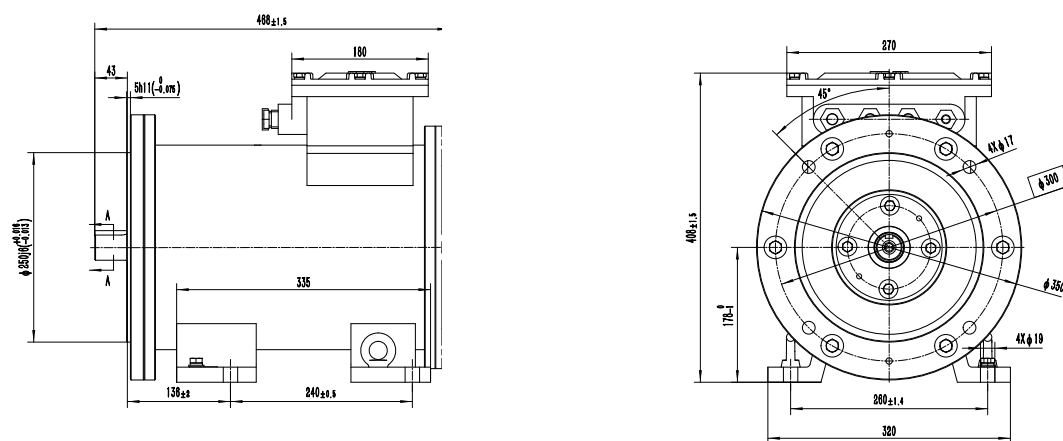
Frame size 248, B3 mounting type outline drawing



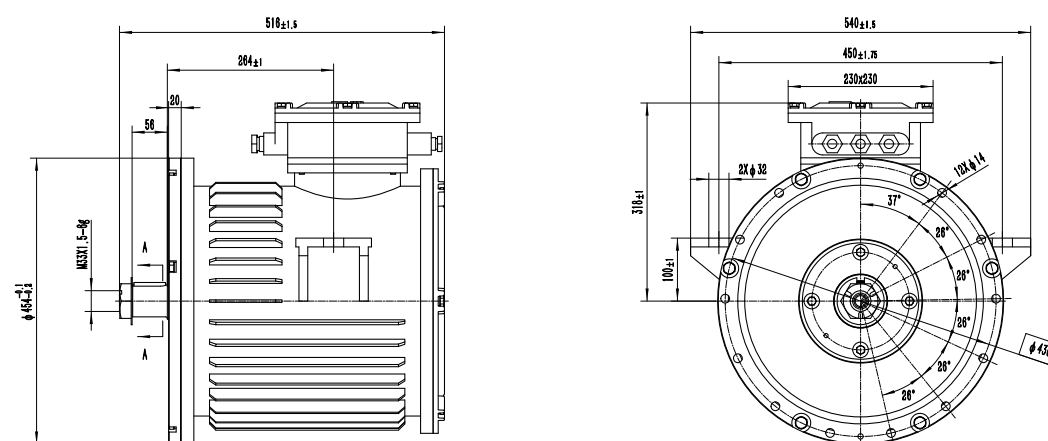
Frame size 181, B5 mounting type outline drawing



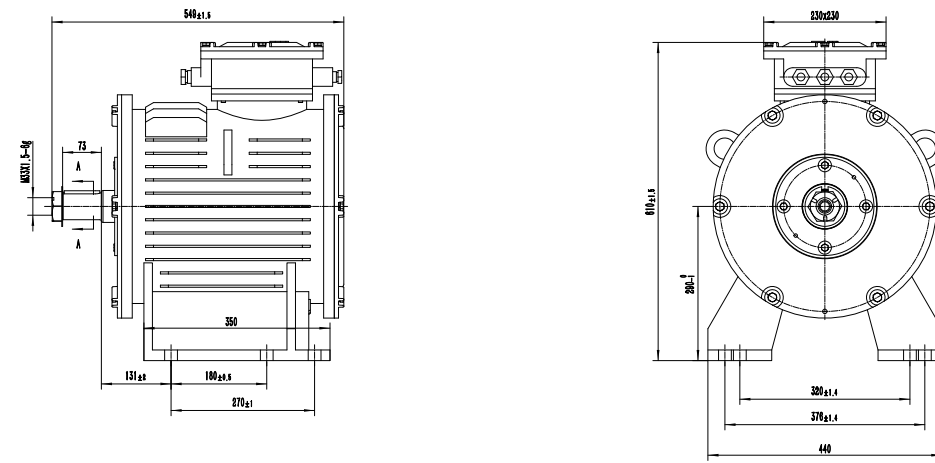
Frame size 248, B5 mounting type outline drawing



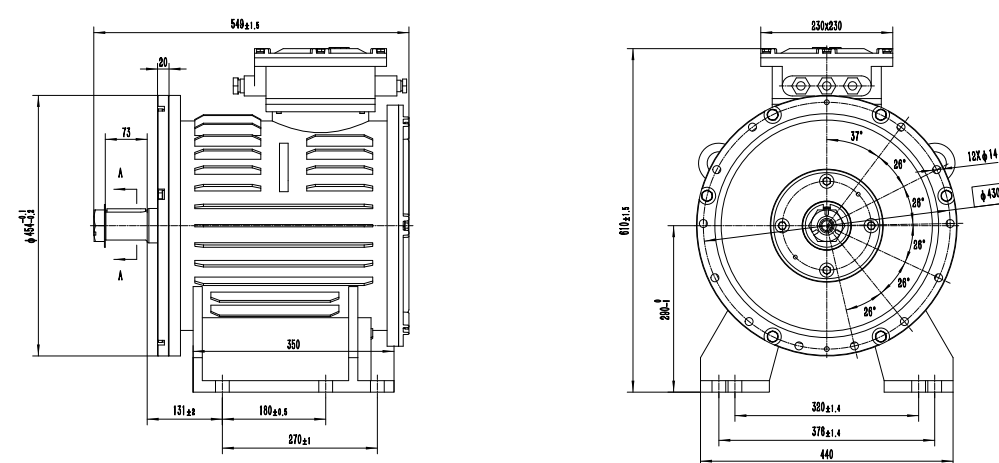
Frame size 248, B35 mounting type outline drawing



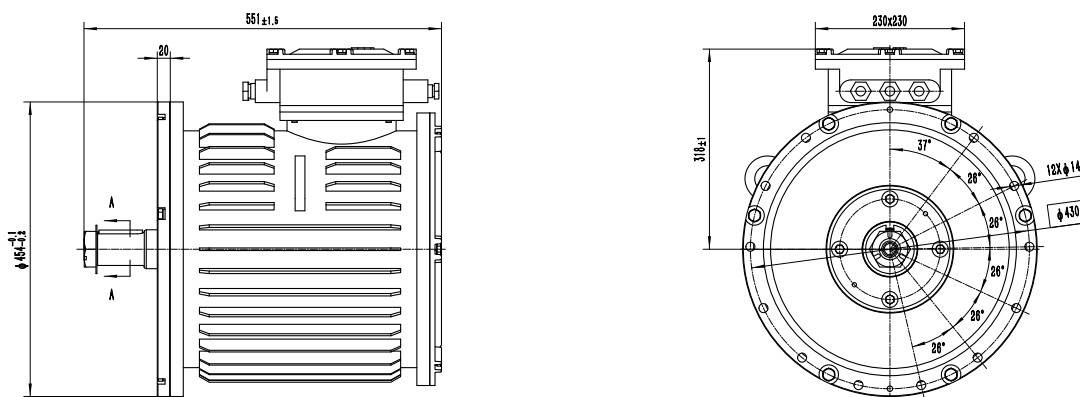
Frame size 340, B25 mounting type outline drawing



Frame size 340, B3 mounting type outline drawing



Frame size 340, B35 mounting type outline drawing



Frame size 340, B5 mounting type outline drawing



TBVFC series mining explosion-proof permanent magnet synchronous variable frequency motor



Product features

The TBVFC series motors are suitable for petrochemical, coal, metallurgy, power, textile and other industries, and are used for driving equipment such as belt conveyors, machine tools, fans, and compressors. They can operate safely in explosive gas environments of Group IIB (representative gas: ethylene) as defined in GB/T 3836-2021, except in coal mine methane environments, and are also applicable to Group IIA explosive gas environments. The duty type is S1 continuous operation, and the cooling method is either coaxial air cooling (IC411) or forced air cooling (IC416).

The TBVFC series motors are available in frame sizes from 90 to 355. Performance indicators such as temperature rise, maximum pull-out torque, efficiency, power factor, noise, and vibration all comply with the requirements of Q/CTS JT003-2022 Technical Conditions for TBVFC Series Flameproof Variable Frequency Permanent Magnet Synchronous Motors (frame size 90–355).

Application industries&Operating conditions



Altitude not exceeding 1,000 m | Ambient air temperature: -20°C to 40°C
Relative air humidity ≤95% | Suitable for explosive gas environments of Group IIB (representative gas: ethylene) as specified in GB/T 3836-2021, except coal mine methane environments.

Product Advantages

- ### 01 Maintenance-free

Directly drives the load without a gearbox, eliminating the need for regular maintenance of gear reducers or replacement of belts and chains.
- ### 02 Energy-efficient

Uses rare earth permanent magnet materials to improve motor efficiency and power factor.

The TBVFC series motors convert electrical energy into mechanical energy more efficiently. A higher power factor means lower motor current, reduced stator copper losses, and higher efficiency. This helps reduce the required capacity of power supply systems, transformers, and related switching equipment and cables, thereby lowering overall system costs.
- ### 03 Low noise, Low vibration

The motor operates smoothly at both low and high speeds, with better vibration and noise performance compared with asynchronous motors.



Explosion-proof Marking Description

- Ex

Explosion-proof marking
- db

Flameproof enclosure, EPL Gb or Mb
- IIB

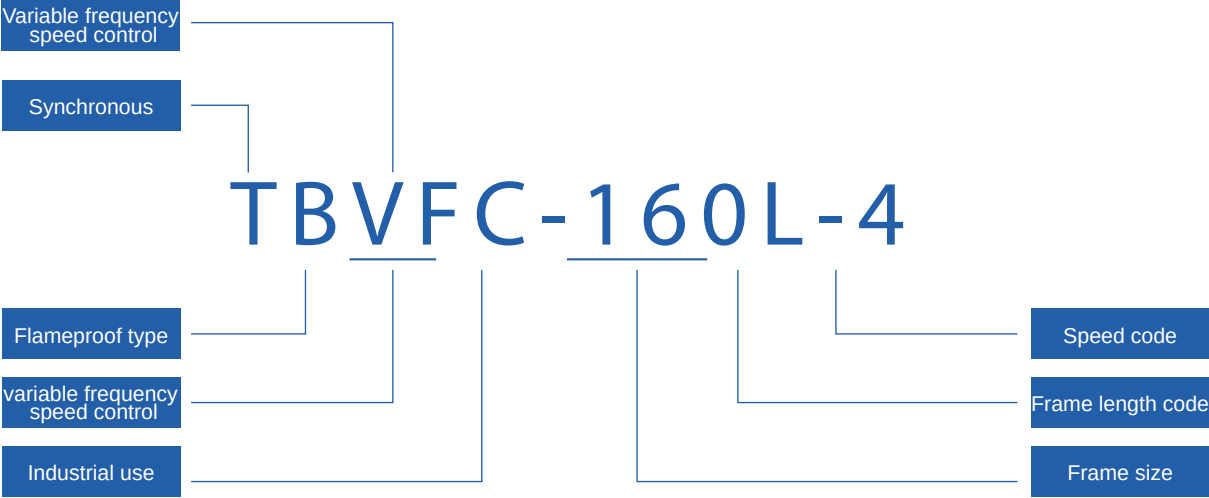
Electrical equipment classification: IIB
- T4

Temperature class: T4, meaning the maximum surface temperature is <135℃
- Gb

Equipment protection level



Naming rules



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-90L-2	2.2	3000	7.0	380	3.8	0.96	91.8	33
TBVFC-90L-4	1.5	1500	9.6	380	2.7	0.96	88.1	33
TBVFC-90L-6	1.1	1000	10.5	380	2	0.96	88.7	33
TBVFC-90S-2	1.5	3000	4.8	380	2.6	0.96	90.9	35
TBVFC-90S-4	1.1	1500	7.0	380	2	0.96	87.4	35
TBVFC-90S-6	0.75	1000	7.2	380	1.4	0.96	87.4	35
TBVFC-100L-2	3	3000	9.6	380	5.1	0.96	92.6	43
TBVFC-100L1-4	3	1500	19.1	380	5.3	0.96	90.3	43
TBVFC-100L2-4	2.2	1500	14.0	380	3.9	0.96	89.7	43
TBVFC-100L-6	1.5	1000	14.3	380	2.6	0.96	89.8	43
TBVFC-100L-8	1.1	750	14.0	380	2	0.96	88.7	43
TBVFC-112M-2	4	3000	12.7	380	6.8	0.96	93.3	65
TBVFC-112M-4	4	1500	25.5	380	7	0.96	90.9	65
TBVFC-112M2-6	2.2	1000	21.0	380	3.8	0.96	90.9	65
TBVFC-132M-4	7.5	1500	47.8	380	12.8	0.96	92.6	92
TBVFC-132M1-6	4	1000	38.2	380	6.8	0.96	92.7	92
TBVFC-132M2-6	5.5	1000	52.5	380	9.3	0.96	93.4	92
TBVFC-132M-8	3	750	38.2	380	5.2	0.96	91	86
TBVFC-132S-2	5.5	3000	17.5	380	9.3	0.96	94	86
TBVFC-132S-2	7.5	3000	23.9	380	12.6	0.96	94.5	86
TBVFC-132S-4	5.5	1500	35.0	380	9.5	0.96	92.1	86
TBVFC-132S-6	3	1000	28.7	380	5.2	0.96	91.8	86
TBVFC-132S-8	2.2	750	28.0	380	3.9	0.96	90	92
TBVFC-132M1-10	4	600	63.7	380	7	0.96	86.8	92



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-132M2-10	4	700	54.6	380	7	0.96	86.8	92
TBVFC-132M3-10	5.5	600	87.5	380	9.5	0.96	88.9	92
TBVFC-132M4-10	5.5	700	75.0	380	9.5	0.96	88.9	92
TBVFC-132M1-12	3	500	57.3	380	5.3	0.96	85.6	92
TBVFC-132M2-12	4	500	76.4	380	7	0.96	86.8	92
TBVFC-132M-14	3	400	71.6	380	5.3	0.96	84.7	92
TBVFC-132M1-16	2.2	350	60.0	380	3.8	0.96	83.4	92
TBVFC-132M2-16	3	350	81.9	380	5.3	0.96	84.7	92
TBVFC-132M-18	2.2	300	70.0	380	3.8	0.96	83.4	92
TBVFC-132M1-20	1.5	250	57.3	380	2.7	0.96	81.2	92
TBVFC-132M2-20	2.2	250	84.0	380	3.8	0.96	82.7	92
TBVFC-132M1-22	1.1	200	52.5	380	2	0.96	79.6	92
TBVFC-132M2-22	1.5	200	71.6	380	2.7	0.96	81.2	92
TBVFC-132M3-22	1.5	230	62.3	380	2.7	0.96	81.2	92
TBVFC-132M4-22	2.2	230	91.3	380	3.8	0.96	82.7	92
TBVFC-132M1-24	1.1	150	70.0	380	2	0.96	78.9	92
TBVFC-132M2-24	1.1	180	58.4	380	2	0.96	79.6	92
TBVFC-132M3-24	1.5	180	79.6	380	2.7	0.96	80.6	92
TBVFC-132M1-26	0.55	100	52.5	380	1	0.96	71.4	92
TBVFC-132M2-26	0.75	100	71.6	380	1.3	0.96	76	92
TBVFC-132M3-26	0.75	120	59.7	380	1.3	0.96	76.5	92
TBVFC-132M4-26	1.1	120	87.5	380	2	0.96	78.4	92
TBVFC-132M1-28	0.55	60	87.5	380	1	0.96	71.4	92
TBVFC-132M2-28	0.55	70	75.0	380	1	0.96	71.4	92

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-132M1-28	0.55	80	65.7	380	1	0.96	71.4	92
TBVFC-132M2-28	0.55	90	58.4	380	1	0.96	71.4	92
TBVFC-132M3-28	0.75	80	89.5	380	1.3	0.96	76	92
TBVFC-132M4-28	0.75	90	79.6	380	1.3	0.96	76	92
TBVFC-160L-2	18.5	3000	58.9	380	30.9	0.96	95.6	124
TBVFC-160L-4	15	1500	95.5	380	25.3	0.96	94	124
TBVFC-160L-6	11	1000	105.1	380	18.6	0.96	94.5	124
TBVFC-160M1-2	11	3000	35.0	380	18.5	0.96	95	118
TBVFC-160M2-2	15	3000	47.8	380	25.2	0.96	95.3	118
TBVFC-160M-4	11	1500	70.0	380	18.6	0.96	93.6	118
TBVFC-160L1-10	7.5	700	102.3	380	12.8	0.96	88.5	124
TBVFC-160L2-10	11	700	150.1	380	18.6	0.96	89.6	124
TBVFC-160L1-12	5.5	500	105.1	380	9.5	0.96	87.8	124
TBVFC-160L2-12	7.5	500	143.3	380	12.8	0.96	88.5	124
TBVFC-160L1-16	4	350	109.1	380	7	0.96	85.9	124
TBVFC-160L2-16	5.5	350	150.1	380	9.5	0.96	87	124
TBVFC-160L1-18	3	300	95.5	380	5.3	0.96	84.7	124
TBVFC-160L2-18	4	300	127.3	380	7	0.96	85.9	124
TBVFC-160L1-18	5.5	300	175.1	380	9.5	0.96	87	124
TBVFC-160L2-20	3	250	114.6	380	5.3	0.96	84	124
TBVFC-160L3-20	4	250	152.8	380	7	0.96	85.3	124
TBVFC-160L1-22	2.2	200	105.1	380	3.8	0.96	82.7	124
TBVFC-160L2-22	2.2	230	91.3	380	3.8	0.96	82.7	124
TBVFC-160L3-22	3	200	143.3	380	5.3	0.96	84	124



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-160L4-22	3	230	124.6	380	5.3	0.96	84	124
TBVFC-160L5-22	4	200	191.0	380	7	0.96	85.3	124
TBVFC-160L6-22	4	230	166.1	380	7	0.96	85.3	124
TBVFC-160L1-24	1.5	150	95.5	380	2.7	0.96	80.6	124
TBVFC-160L2-24	2.2	150	140.1	380	3.8	0.96	82.1	124
TBVFC-160L3-24	2.2	180	116.7	380	3.8	0.96	82.1	124
TBVFC-160L4-24	3	150	191.0	380	5.3	0.96	83.5	124
TBVFC-160L5-24	3	180	159.2	380	5.3	0.96	83.5	124
TBVFC-160L1-26	1.5	100	143.3	380	2.7	0.96	79.6	124
TBVFC-160L2-26	1.5	120	119.4	380	2.7	0.96	80.1	124
TBVFC-160L3-26	2.2	120	175.1	380	3.8	0.96	81.7	124
TBVFC-160L1-28	0.55	50	105.1	380	1	0.96	71.4	124
TBVFC-160L2-28	0.75	50	143.3	380	1.3	0.96	76	124
TBVFC-160L3-28	0.75	60	119.4	380	1.3	0.96	76	124
TBVFC-160L4-28	0.75	70	102.3	380	1.3	0.96	76	124
TBVFC-160L5-28	1.1	60	175.1	380	2	0.96	77.9	124
TBVFC-160L6-28	1.1	70	150.1	380	2	0.96	77.9	124
TBVFC-160L7-28	1.1	80	131.3	380	2	0.96	77.9	124
TBVFC-160L8-28	1.1	90	116.7	380	2	0.96	77.9	124
TBVFC-160L9-28	1.5	80	179.1	380	2.7	0.96	79.6	124
TBVFC-160L10-28	1.5	90	159.2	380	2.7	0.96	79.6	124
TBVFC-160L1-30	0.55	40	131.3	380	1	0.96	71.4	124
TBVFC-160L2-30	0.75	40	179.1	380	1.3	0.96	76	124
TBVFC-180L-4	18.5	1500	117.8	380	31	0.96	94.3	185

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-180L-6	15	1000	143.3	380	25	0.96	94.9	185
TBVFC-180L-8	11	750	140.1	380	18.6	0.96	93.7	185
TBVFC-180M-2	22	3000	70.0	380	36.3	0.96	95.9	180
TBVFC-180M-4	22	1500	140.1	380	36.8	0.96	94.7	180
TBVFC-180L1-10	15	700	204.6	380	25.3	0.96	90.4	185
TBVFC-180L2-10	18.5	700	252.4	380	31	0.96	91	185
TBVFC-180L3-10	22	700	300.1	380	36.8	0.96	91.6	185
TBVFC-180L1-12	11	500	210.1	380	18.6	0.96	89.6	185
TBVFC-180L2-12	15	500	286.5	380	25.3	0.96	90.4	185
TBVFC-180L3-12	18.5	500	353.4	380	31	0.96	91	185
TBVFC-180L1-16	7.5	350	204.6	380	12.8	0.96	88	185
TBVFC-180L2-16	11	350	300.1	380	18.6	0.96	88.8	185
TBVFC-180L1-18	7.5	300	238.8	380	12.8	0.96	88	185
TBVFC-180L2-18	11	300	350.2	380	18.6	0.96	88.8	185
TBVFC-180L1-20	5.5	250	210.1	380	9.5	0.96	86.4	185
TBVFC-180L2-20	7.5	250	286.5	380	12.8	0.96	87.4	185
TBVFC-180L1-22	5.5	200	262.6	380	9.5	0.96	86.4	185
TBVFC-180L2-22	5.5	230	228.4	380	9.5	0.96	86.4	185
TBVFC-180L3-22	7.5	230	311.4	380	12.8	0.96	87.4	185
TBVFC-180L1-24	4	150	254.7	380	7	0.96	84.7	185
TBVFC-180L2-24	4	180	212.2	380	7	0.96	84.7	185
TBVFC-180L3-24	5.5	150	350.2	380	9.5	0.96	85.8	185
TBVFC-180L4-24	5.5	180	291.8	380	9.5	0.96	85.8	185
TBVFC-180L1-26	3	100	286.5	380	5.3	0.96	82.6	185



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-180L2-26	3	120	238.8	380	5.3	0.96	83.1	185
TBVFC-180L3-26	4	120	318.3	380	7	0.96	84.3	185
TBVFC-180L1-28	1.1	50	210.1	380	2	0.96	77.9	185
TBVFC-180L2-28	1.5	50	286.5	380	2.7	0.96	79.6	185
TBVFC-180L3-28	1.5	60	238.8	380	2.7	0.96	79.6	185
TBVFC-180L4-28	1.5	70	204.6	380	2.7	0.96	79.6	185
TBVFC-180L5-28	2.2	60	350.2	380	3.8	0.96	81.1	185
TBVFC-180L6-28	2.2	70	300.1	380	3.8	0.96	81.1	185
TBVFC-180L7-28	2.2	80	262.6	380	3.8	0.96	81.1	185
TBVFC-180L8-28	2.2	90	233.4	380	3.8	0.96	81.1	185
TBVFC-180L9-28	3	90	318.3	380	5.3	0.96	82.6	185
TBVFC-180L-30	1.1	40	262.6	380	2	0.96	77.9	185
TBVFC-200L1-2	30	3000	95.5	380	49.1	0.96	96.1	220
TBVFC-200L2-2	37	3000	117.8	380	60.8	0.96	96.3	220
TBVFC-200L-4	30	1500	191.0	380	50	0.96	95	220
TBVFC-200L1-6	18.5	1000	176.7	380	30.7	0.96	95.3	220
TBVFC-200L2-6	22	1000	210.1	380	36.4	0.96	95.6	220
TBVFC-200L-8	15	750	191.0	380	25.2	0.96	94.2	220
TBVFC-200L-10	30	700	409.3	380	50	0.96	92	220
TBVFC-200L1-12	18.5	500	353.4	380	31	0.96	91	220
TBVFC-200L2-12	22	500	420.2	380	36.8	0.96	91.6	220
TBVFC-200L1-16	15	350	409.3	380	25.3	0.96	89.6	220
TBVFC-200L2-16	18.5	350	504.8	380	31	0.96	90.3	220
TBVFC-200L1-18	11	300	350.2	380	18.6	0.96	88.8	220

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-200L2-18	15	300	477.5	380	25.3	0.96	89.6	220
TBVFC-200L-20	11	250	420.2	380	18.6	0.96	88.3	220
TBVFC-200L1-22	7.5	200	358.1	380	12.8	0.96	87.4	220
TBVFC-200L2-22	11	200	525.3	380	18.6	0.96	88.3	220
TBVFC-200L3-22	11	230	456.7	380	18.6	0.96	88.3	220
TBVFC-200L1-24	5.5	150	350.2	380	9.5	0.96	85.8	220
TBVFC-200L2-24	7.5	150	477.5	380	12.8	0.96	86.9	220
TBVFC-200L3-24	7.5	180	397.9	380	12.8	0.96	86.9	220
TBVFC-200L1-26	4	100	382.0	380	7	0.96	83.8	220
TBVFC-200L2-26	5.5	100	525.3	380	9.5	0.96	85	220
TBVFC-200L3-26	5.5	120	437.7	380	9.5	0.96	85.5	220
TBVFC-200L1-28	2.2	50	420.2	380	3.8	0.96	81.1	220
TBVFC-200L2-28	3	60	477.5	380	5.3	0.96	82.6	220
TBVFC-200L3-28	3	70	409.3	380	5.3	0.96	82.6	220
TBVFC-200L4-28	3	80	358.1	380	5.3	0.96	82.6	220
TBVFC-200L5-28	4	80	477.5	380	7	0.96	83.8	220
TBVFC-200L6-28	4	90	424.4	380	7	0.96	83.8	220
TBVFC-200L1-30	1.5	40	358.1	380	2.7	0.96	79.6	220
TBVFC-200L2-30	2.2	40	525.3	380	3.8	0.96	81.1	220
TBVFC-225M-12	30	500	573.0	380	50	0.96	92	291
TBVFC-225M1-14	22	400	525.3	380	36.8	0.96	90.9	291
TBVFC-225M2-14	22	400	525.3	380	36.8	0.96	90.9	291
TBVFC-225M1-16	18.5	350	504.8	380	31	0.96	90.3	291
TBVFC-225M2-16	22	350	600.3	380	36.8	0.96	90.9	291



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-225M1-18	15	300	477.5	380	25.3	0.96	89.6	291
TBVFC-225M2-18	18.5	300	588.9	380	31	0.96	90.3	291
TBVFC-225M1-22	11	200	525.3	380	18.6	0.96	88.3	291
TBVFC-225M2-22	11	230	456.7	380	18.6	0.96	88.3	291
TBVFC-225M3-22	15	230	622.8	380	25.3	0.96	89	291
TBVFC-225M1-24	7.5	150	477.5	380	12.8	0.96	86.5	291
TBVFC-225M-24	7.5	160	447.7	380	12.8	0.96	86.9	291
TBVFC-225M1-26	5.5	100	525.3	380	9.5	0.96	85	291
TBVFC-225M2-26	7.5	120	596.9	380	12.8	0.96	86.5	291
TBVFC-225M1-28	3	65	440.8	380	5.3	0.96	82.6	291
TBVFC-225M2-28	4	65	587.7	380	7	0.96	83.8	291
TBVFC-225M3-28	4	80	477.5	380	7	0.96	83.8	291
TBVFC-225M4-28	4	85	449.4	380	7	0.96	83.8	291
TBVFC-225M5-28	5.5	80	656.6	380	9.5	0.96	85	291
TBVFC-225M6-28	5.5	85	617.9	380	9.5	0.96	85	291
TBVFC-225M7-28	5.5	90	583.6	380	9.5	0.96	85	291
TBVFC-225M-30	2.2	40	525.3	380	3.8	0.96	81.1	291
TBVFC-225M-2	45	3000	143.3	380	75	0.96	96.4	291
TBVFC-225M-4	45	1500	286.5	380	74.5	0.96	95.6	291
TBVFC-225M-6	30	1000	286.5	380	49.6	0.96	95.8	291
TBVFC-225M-8	22	750	280.1	380	36.7	0.96	94.9	291
TBVFC-225S-4	37	1500	235.6	380	64.1	0.96	95.3	280
TBVFC-225S-8	18.5	750	235.6	380	31	0.96	94.6	280
TBVFC-250M1-12	37	500	706.7	380	61.4	0.96	92.4	375

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-250M2-12	45	500	859.5	380	75	0.96	92.8	375
TBVFC-250M3-12	55	500	1050.5	380	91.5	0.96	93.1	375
TBVFC-250M1-14	30	400	716.3	380	50	0.96	91.4	375
TBVFC-250M2-14	37	400	883.4	380	61.4	0.96	91.8	375
TBVFC-250M3-14	45	400	1074.4	380	75	0.96	92.2	375
TBVFC-250M1-16	22	350	600.3	380	36.8	0.96	90.9	375
TBVFC-250M2-16	30	350	818.6	380	50	0.96	91.4	375
TBVFC-250M3-16	37	350	1009.6	380	61.4	0.96	92.4	375
TBVFC-250M1-18	18.5	300	588.9	380	31	0.96	90.3	375
TBVFC-250M2-18	22	300	700.3	380	36.8	0.96	90.9	375
TBVFC-250M3-18	30	300	955.0	380	50	0.96	91.4	375
TBVFC-250M1-22	15	200	716.3	380	25.3	0.96	89	375
TBVFC-250M2-22	15	230	622.8	380	25.3	0.96	89	375
TBVFC-250M3-22	18.5	200	883.4	380	31	0.96	89.7	375
TBVFC-250M4-22	18.5	230	768.2	380	31	0.96	89.7	375
TBVFC-250M5-22	22	230	913.5	380	36.8	0.96	90.3	375
TBVFC-250M1-24	11	150	700.3	380	18.6	0.96	87.8	375
TBVFC-250M2-24	11	160	656.6	380	18.6	0.96	87.8	375
TBVFC-250M3-24	15	150	955.0	380	25.3	0.96	88.6	375
TBVFC-250M4-24	15	160	895.3	380	25.3	0.96	88.6	375
TBVFC-250M1-26	7.5	100	716.3	380	12.8	0.96	86	375
TBVFC-250M2-26	7.5	120	596.9	380	12.8	0.96	86.5	375
TBVFC-250M3-26	11	100	1050.5	380	18.6	0.96	87	375
TBVFC-250M4-26	11	120	875.4	380	18.6	0.96	87.4	375



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-250M1-28	5.5	55	955.0	380	9.5	0.96	85	375
TBVFC-250M2-28	5.5	65	808.1	380	9.5	0.96	85	375
TBVFC-250M3-28	5.5	80	656.6	380	9.5	0.96	85	375
TBVFC-250M4-28	5.5	85	617.9	380	9.5	0.96	85	375
TBVFC-250M5-28	5.5	90	583.6	380	9.5	0.96	85	375
TBVFC-250M6-28	7.5	80	895.3	380	12.8	0.96	86	375
TBVFC-250M7-28	7.5	85	842.6	380	12.8	0.96	86	375
TBVFC-250M8-28	7.5	90	795.8	380	12.8	0.96	86	375
TBVFC-250M-2	55	3000	175.1	380	91.2	0.96	96.5	375
TBVFC-250M-4	55	1500	350.2	380	90.9	0.96	95.8	375
TBVFC-250M-6	37	1000	353.4	380	61	0.96	96	375
TBVFC-250M-8	30	750	382.0	380	49.9	0.96	95.1	375
TBVFC-280M-2	90	3000	286.5	380	148.7	0.96	96.7	598
TBVFC-280M-4	90	1500	573.0	380	148.1	0.96	96.2	598
TBVFC-280M-6	55	1000	525.3	380	90.4	0.96	96.3	598
TBVFC-280M-8	45	750	573.0	380	74.6	0.96	95.5	598
TBVFC-280S-2	75	3000	238.8	380	124.2	0.96	96.6	569
TBVFC-280S-4	75	1500	477.5	380	123.6	0.96	96	569
TBVFC-280S-6	45	1000	429.8	380	74	0.96	96.2	569
TBVFC-280S-8	37	750	471.1	380	64.4	0.96	95.3	569
TBVFC-280M-12	55	500	1050.5	380	91.5	0.96	93.1	598
TBVFC-280M1-14	45	400	1074.4	380	75	0.96	92.2	598
TBVFC-280M2-14	55	400	1313.1	380	91.5	0.96	92.5	598
TBVFC-280M1-16	37	350	1009.6	380	61.4	0.96	91.8	598

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-280M2-16	45	350	1227.9	380	75	0.96	92.2	598
TBVFC-280M3-16	55	350	1500.7	380	91.5	0.96	92.5	598
TBVFC-280M1-18	37	300	1177.8	380	61.4	0.96	91.8	598
TBVFC-280M2-18	45	300	1432.5	380	75	0.96	92.2	598
TBVFC-280M1-22	30	230	1245.7	380	50	0.96	90.9	598
TBVFC-280M2-22	37	230	1536.3	380	61.4	0.96	91.3	598
TBVFC-280M1-24	15	150	955.0	380	25.3	0.96	88.6	598
TBVFC-280M2-24	18.5	150	1177.8	380	31	0.96	89.3	598
TBVFC-280M3-24	18.5	160	1104.2	380	31	0.96	89.3	598
TBVFC-280M4-24	22	150	1400.7	380	36.8	0.96	89.9	598
TBVFC-280M5-24	22	160	1313.1	380	36.8	0.96	89.9	598
TBVFC-280M6-24	22	195	1077.4	380	36.8	0.96	90.3	598
TBVFC-280M7-24	30	195	1469.2	380	50	0.96	90.9	598
TBVFC-280M1-26	11	100	1050.5	380	18.6	0.96	87	598
TBVFC-280M2-26	15	100	1432.5	380	25.3	0.96	87.8	598
TBVFC-280M3-26	15	120	1193.8	380	25.3	0.96	88.2	598
TBVFC-280M4-26	18.5	120	1472.3	380	31	0.96	88.9	598
TBVFC-280M1-28	11	65	1616.2	380	18.6	0.96	87	598
TBVFC-280M2-28	11	75	1400.7	380	18.6	0.96	87	598
TBVFC-280M3-28	11	80	1313.1	380	18.6	0.96	87	598
TBVFC-280M4-28	11	85	1235.9	380	18.6	0.96	87	598
TBVFC-280M5-28	11	90	1167.2	380	18.6	0.96	87	598
TBVFC-280M6-28	15	90	1591.7	380	25.3	0.96	87.8	598
TBVFC-315L1-2	160	3000	509.3	380	263.2	0.96	97	970



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-315L2-2	200	3000	636.7	380	328.7	0.96	97.2	970
TBVFC-315L1-4	160	1500	1018.7	380	262.4	0.96	96.5	970
TBVFC-315L2-4	200	1500	1273.3	380	327.7	0.96	96.6	970
TBVFC-315L1-6	110	1000	1050.5	380	180.8	0.96	96.3	970
TBVFC-315L2-6	132	1000	1260.6	380	216.9	0.96	96.3	970
TBVFC-315L1-8	90	750	1146.0	380	148.8	0.96	95.7	970
TBVFC-315L2-8	110	750	1400.7	380	181.9	0.96	95.7	970
TBVFC-315M-10	55	600	875.4	380	91.1	0.96	95.6	889
TBVFC-315M-2	132	3000	420.2	380	217.6	0.96	96.9	889
TBVFC-315M1-4	132	1500	840.4	380	216.5	0.96	96.5	889
TBVFC-315M2-4	250	1500	1591.7	380	409.2	0.96	96.7	889
TBVFC-315M-6	90	1000	859.5	380	147.6	0.96	96.5	889
TBVFC-315M-8	75	750	955.0	380	124	0.96	95.7	970
TBVFC-315S-10	45	600	716.3	380	74.6	0.96	95.5	810
TBVFC-315S-2	110	3000	350.2	380	181.3	0.96	96.8	810
TBVFC-315S-4	110	1500	700.3	380	180.6	0.96	96.4	810
TBVFC-315S-6	75	1000	716.3	380	123.1	0.96	96.4	810
TBVFC-315S-8	55	750	700.3	380	91.1	0.96	95.6	810
TBVFC-315L1-10	75	600	1193.8	380	124	0.96	95.7	889
TBVFC-315L2-10	90	600	1432.5	380	148.8	0.96	95.7	970
TBVFC-315M1-12	90	500	1719.0	380	149	0.96	93.5	889
TBVFC-315M2-12	110	500	2101.0	380	182	0.96	93.6	889
TBVFC-315M3-12	132	500	2521.2	380	219	0.96	93.6	889
TBVFC-315M4-12	160	500	3056.0	380	265	0.96	95.4	889

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-315M1-14	75	400	1790.6	380	124	0.96	92.8	889
TBVFC-315M2-14	90	400	2148.8	380	149	0.96	93	889
TBVFC-315M3-14	110	400	2626.3	380	182	0.96	93.2	889
TBVFC-315M4-14	132	400	3151.5	380	219	0.96	93.2	889
TBVFC-315M1-16	75	350	2046.4	380	124	0.96	92.8	889
TBVFC-315M2-16	90	350	2455.7	380	149	0.96	93	889
TBVFC-315M3-16	110	350	3001.4	380	182	0.96	93.2	889
TBVFC-315M1-18	55	300	1750.8	380	91.5	0.96	92.5	889
TBVFC-315M2-18	75	300	2387.5	380	124	0.96	92.8	889
TBVFC-315M3-18	90	300	2865.0	380	149	0.96	93	889
TBVFC-315M4-18	110	300	3501.7	380	182	0.96	93.2	889
TBVFC-315M1-22	45	230	1868.5	380	75	0.96	91.8	889
TBVFC-315M2-22	55	230	2283.7	380	91.5	0.96	92.1	889
TBVFC-315M3-22	75	230	3114.1	380	124	0.96	92.4	889
TBVFC-315M1-24	30	150	1910.0	380	50	0.96	90.5	889
TBVFC-315M2-24	30	160	1790.6	380	50	0.96	90.5	889
TBVFC-315M3-24	37	150	2355.7	380	61.4	0.96	91	889
TBVFC-315M4-24	37	160	2208.4	380	61.4	0.96	91	889
TBVFC-315M5-24	37	195	1812.1	380	61.4	0.96	91.3	889
TBVFC-315M6-24	45	150	2865.0	380	75	0.96	91.4	889
TBVFC-315M7-24	45	160	2685.9	380	75	0.96	91.4	889
TBVFC-315M8-24	45	195	2203.8	380	75	0.96	91.8	889
TBVFC-315M9-24	55	160	3282.8	380	91.5	0.96	91.7	889
TBVFC-315M10-24	55	195	2693.6	380	91.5	0.96	92.1	889



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-315M1-26	18.5	100	1766.8	380	31	0.96	88.5	889
TBVFC-315M2-26	22	100	2101.0	380	36.8	0.96	89.2	889
TBVFC-315M3-26	22	120	1750.8	380	36.8	0.96	89.2	889
TBVFC-315M4-26	30	100	2865.0	380	50	0.96	89.7	889
TBVFC-315M5-26	30	120	2387.5	380	50	0.96	90.1	889
TBVFC-315M6-26	37	100	3533.5	380	61.4	0.96	90.2	889
TBVFC-315M7-26	37	120	2944.6	380	61.4	0.96	90.5	889
TBVFC-315M1-28	11	65	1616.2	380	18.6	0.96	87	889
TBVFC-315M2-28	15	65	2203.8	380	25.3	0.96	87.8	889
TBVFC-315M3-28	15	80	1790.6	380	25.3	0.96	87.8	889
TBVFC-315M4-28	15	85	1685.3	380	25.3	0.96	87.8	889
TBVFC-315M5-28	18.5	65	2718.1	380	31	0.96	88.5	889
TBVFC-315M6-28	18.5	80	2208.4	380	31	0.96	88.5	889
TBVFC-315M7-28	18.5	85	2078.5	380	31	0.96	88.5	889
TBVFC-315M8-28	18.5	90	1963.1	380	31	0.96	88.5	889
TBVFC-315M9-28	22	65	3232.3	380	36.8	0.96	89.2	889
TBVFC-315M10-28	22	80	2626.3	380	36.8	0.96	89.2	889
TBVFC-315M11-28	22	85	2471.8	380	36.8	0.96	89.2	889
TBVFC-315M12-28	22	90	2334.4	380	36.8	0.96	89.2	889
TBVFC-315M13-28	30	80	3581.3	380	50	0.96	89.7	889
TBVFC-315M14-28	30	85	3370.6	380	50	0.96	89.7	889
TBVFC-315M15-28	30	90	3183.3	380	50	0.96	89.7	889
TBVFC-315M1-30	7.5	40	1790.6	380	12.8	0.96	86	889
TBVFC-315M2-30	11	40	2626.3	380	18.6	0.96	87	889

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-355L-2	315	3000	1002.8	380	516.6	0.96	97.2	1371
TBVFC-355L-4	315	1500	2005.5	380	515	0.96	96.8	1371
TBVFC-355L1-6	200	1000	1910.0	380	328.4	0.96	96.4	1371
TBVFC-355L2-6	250	1000	2387.5	380	410.4	0.96	96.4	1371
TBVFC-355L1-8	160	750	2037.3	380	264.3	0.96	95.8	1371
TBVFC-355L2-8	200	750	2546.7	380	330.4	0.96	95.8	1371
TBVFC-355M-2	250	3000	795.8	380	410.4	0.96	97.2	1285
TBVFC-355M1-4	250	1500	1591.7	380	409.2	0.96	96.7	1285
TBVFC-355M2-4	355	1500	2260.2	380	515	0.96	96.8	1285
TBVFC-355M1-6	160	1000	1528.0	380	263	0.96	96.3	1285
TBVFC-355M2-6	315	1000	3008.3	380	458	0.96	97	1285
TBVFC-355M3-6	355	1000	3390.3	380	516	0.96	97	1285
TBVFC-355M-8	132	750	1680.8	380	218.1	0.96	95.8	1285
TBVFC-355M-10	110	600	1750.8	380	181.9	0.96	95.7	1285
TBVFC-355L1-10	132	600	2101.0	380	218.1	0.96	95.8	1371
TBVFC-355L2-10	160	600	2546.7	380	264.3	0.96	95.8	1371
TBVFC-355M-12	185	500	3533.5	380	305	0.96	95.4	1285
TBVFC-355M1-14	160	400	3820.0	380	265	0.96	94.9	1285
TBVFC-355M2-14	185	400	4416.9	380	305	0.96	94.9	1285
TBVFC-355M1-16	132	350	3601.7	380	219	0.96	93.2	1285
TBVFC-355M2-16	160	350	4365.7	380	265	0.96	94.9	1285
TBVFC-355M1-18	110	300	3501.7	380	182	0.96	93.2	1285
TBVFC-355M2-18	132	300	4202.0	380	219	0.96	93.2	1285
TBVFC-355M1-22	90	230	3737.0	380	149	0.96	92.7	1285



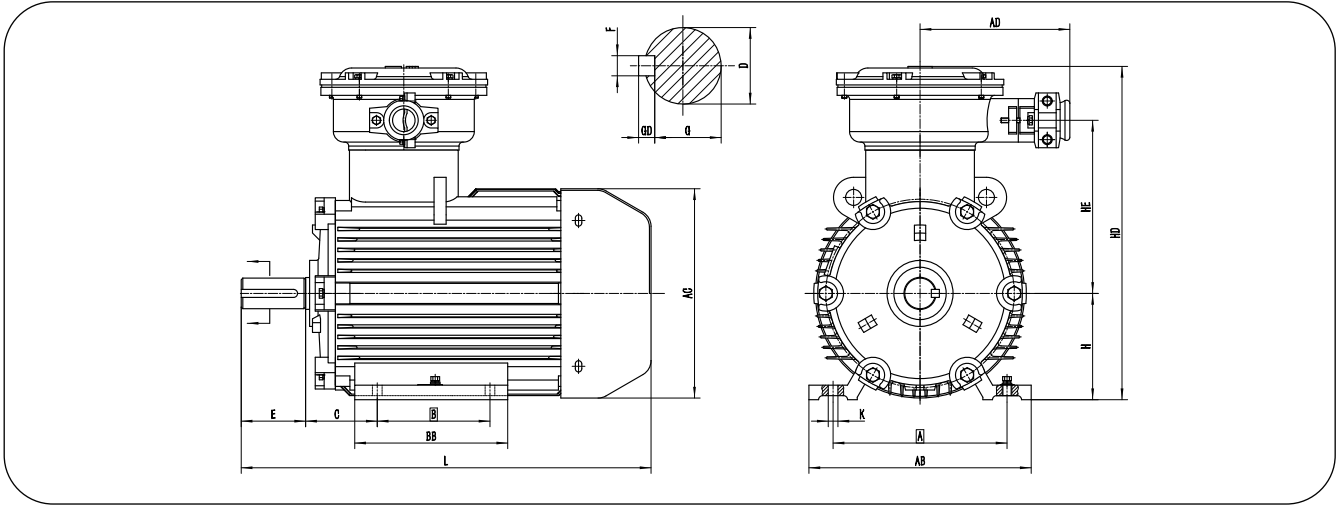
Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFC-355M2-22	110	230	4567.4	380	182	0.96	92.9	1285
TBVFC-355M1-24	55	150	3501.7	380	91.5	0.96	91.7	1285
TBVFC-355M2-24	75	150	4775.0	380	124	0.96	92	1285
TBVFC-355M3-24	75	160	4476.6	380	124	0.96	92	1285
TBVFC-355M4-24	75	195	3673.1	380	124	0.96	92.4	1285
TBVFC-355M5-24	90	195	4407.7	380	149	0.96	92.7	1285
TBVFC-355M1-26	37	100	3533.5	380	61.4	0.96	90.2	1285
TBVFC-355M2-26	45	100	4297.5	380	75	0.96	90.7	1285
TBVFC-355M3-26	45	120	3581.3	380	75	0.96	91	1285
TBVFC-355M4-26	55	120	4377.1	380	91.5	0.96	91.3	1285
TBVFC-355M1-28	30	65	4407.7	380	50	0.96	89.7	1285
TBVFC-355M2-28	30	80	3581.3	380	50	0.96	89.7	1285
TBVFC-355M3-28	37	80	4416.9	380	61.4	0.96	90.2	1285
TBVFC-355M4-28	37	85	4157.1	380	61.4	0.96	90.2	1285
TBVFC-355M5-28	37	90	3926.1	380	61.4	0.96	90.2	1285
TBVFC-355M6-28	45	90	4775.0	380	75	0.96	90.7	1285
TBVFC-355M1-30	15	40	3581.3	380	25.3	0.96	87.8	1285
TBVFC-355M2-30	18.5	40	4416.9	380	31	0.96	88.5	1285

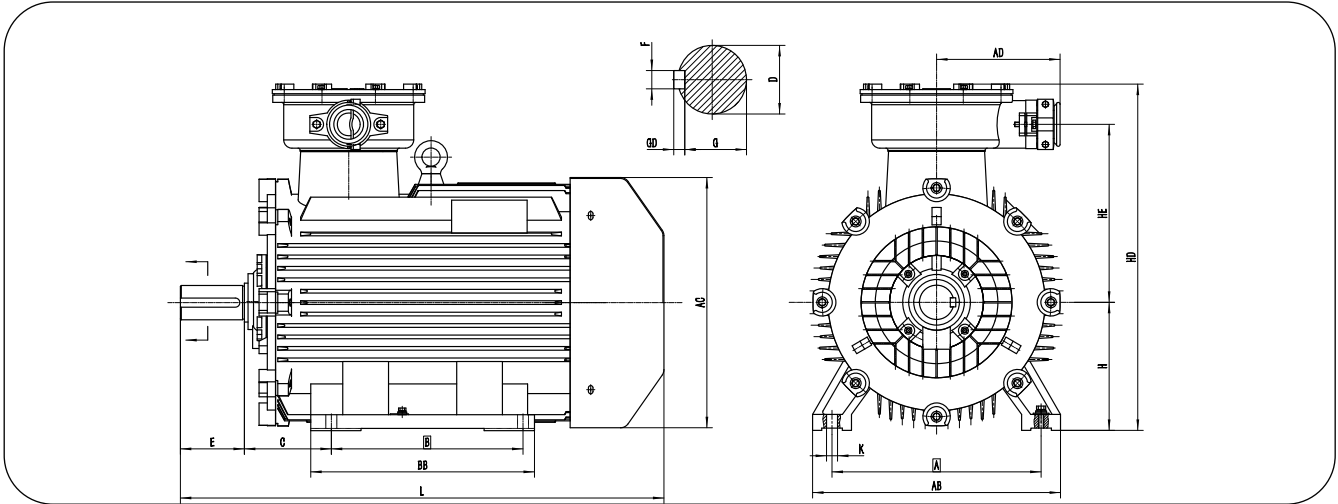
Motor Model	Basic mounting structure			Derived Mounting Configurations								
	IMB3	IMB35	IMB5	IMB5 Type			IMB3 Type				IMB35 Type	
				IMV1	IMV3	IMV5	IMV6	IMB6	IMB7	IMB8	IMV15	IMV36
TBVFC 90-160												
TBVFC 180-280	√	√	√	√	/	/	/	/	/	/	/	/
TBVFC 315-355	√	√	/	√	/	/	/	/	/	/	/	/

Mounting Method

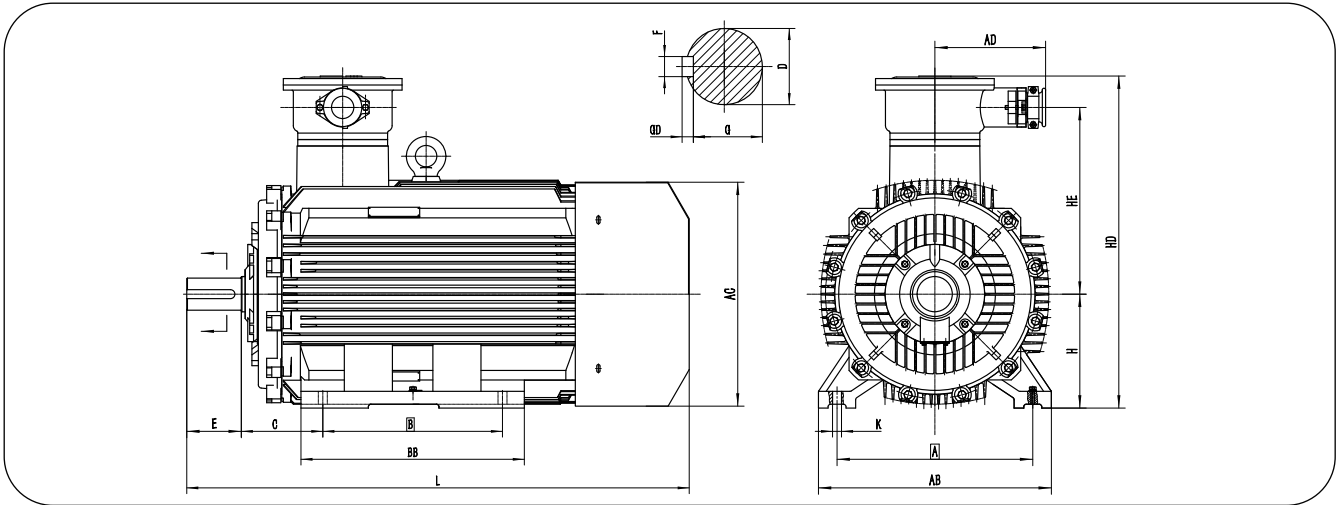
Outline Drawing (frame with feet, end shield without flange)



90-132 frame size outline drawing



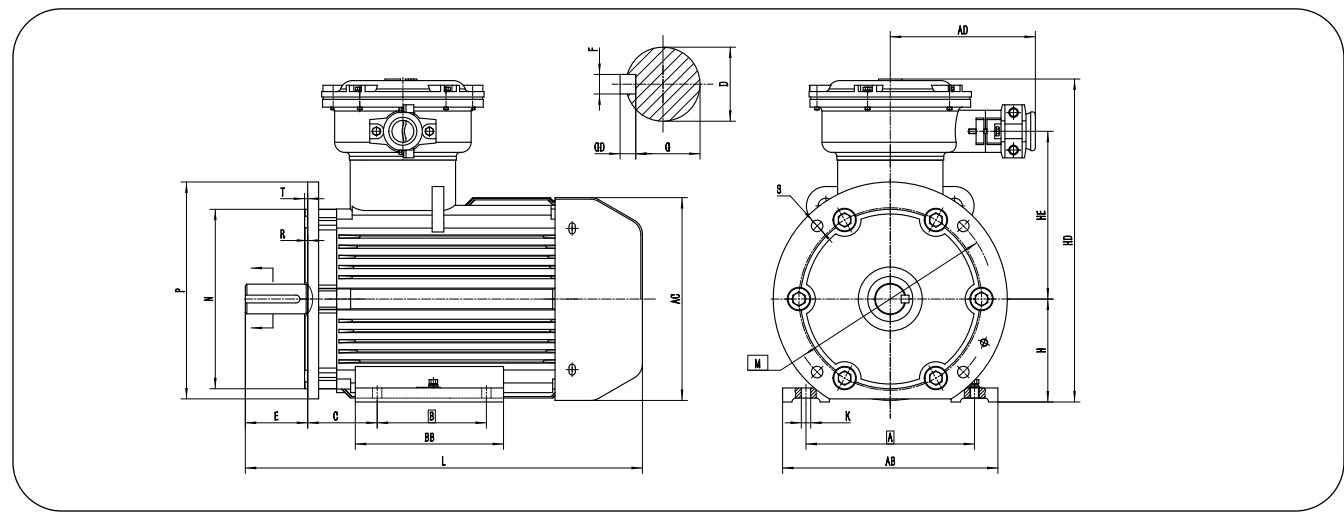
160-280 frame size outline drawing



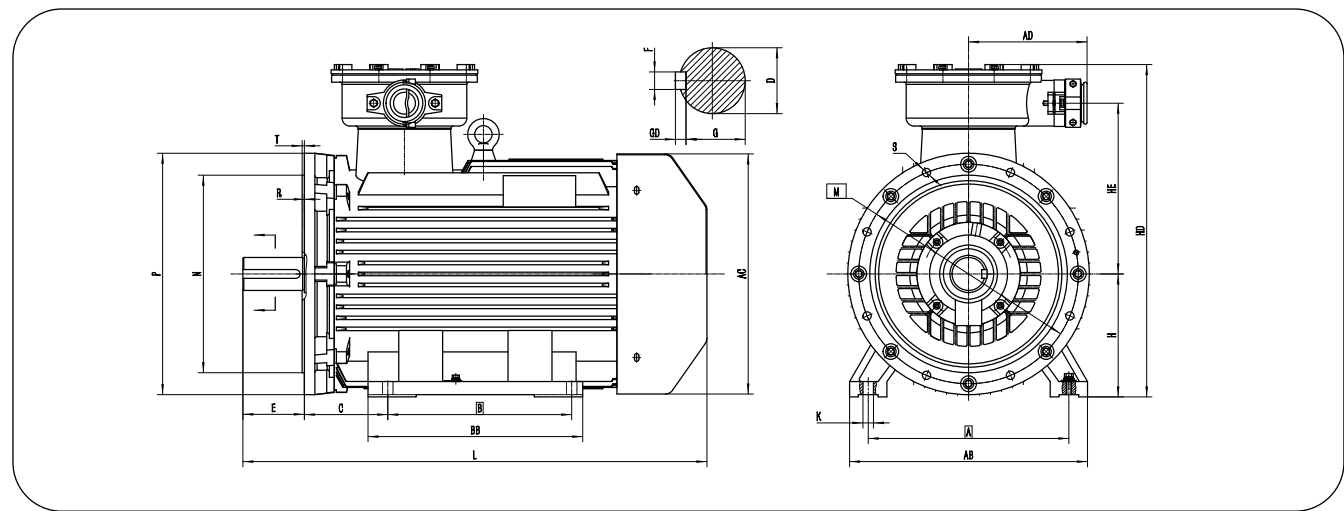
315-355 frame size outline drawing



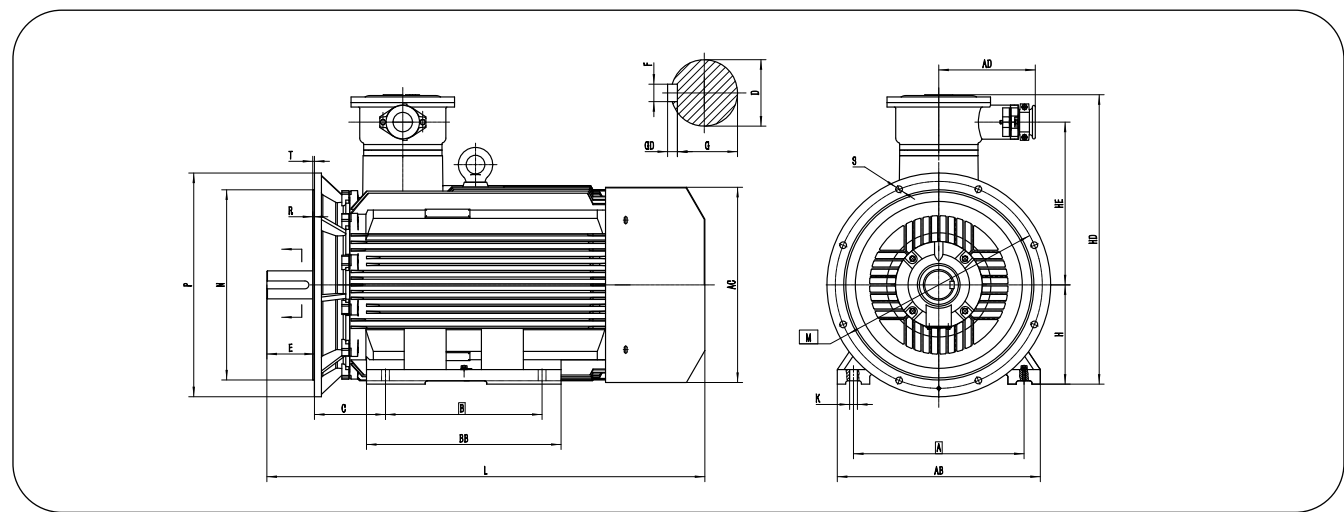
Outline Drawing (for frame with base feet, end cover with flange, and through holes)



90-132 frame size outline drawing

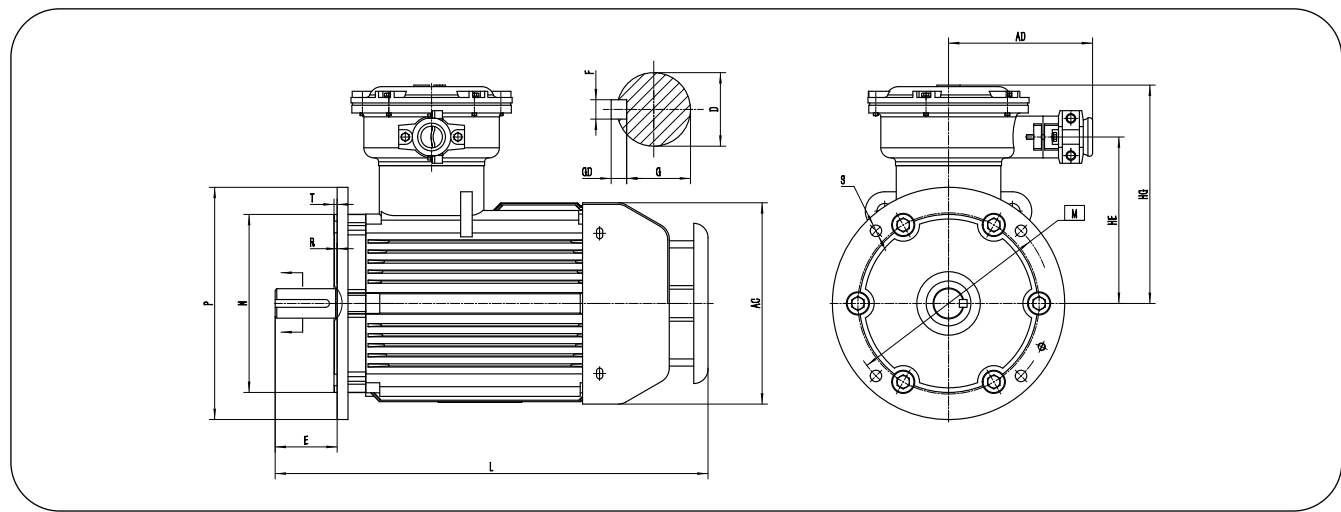


160-280 frame size outline drawing

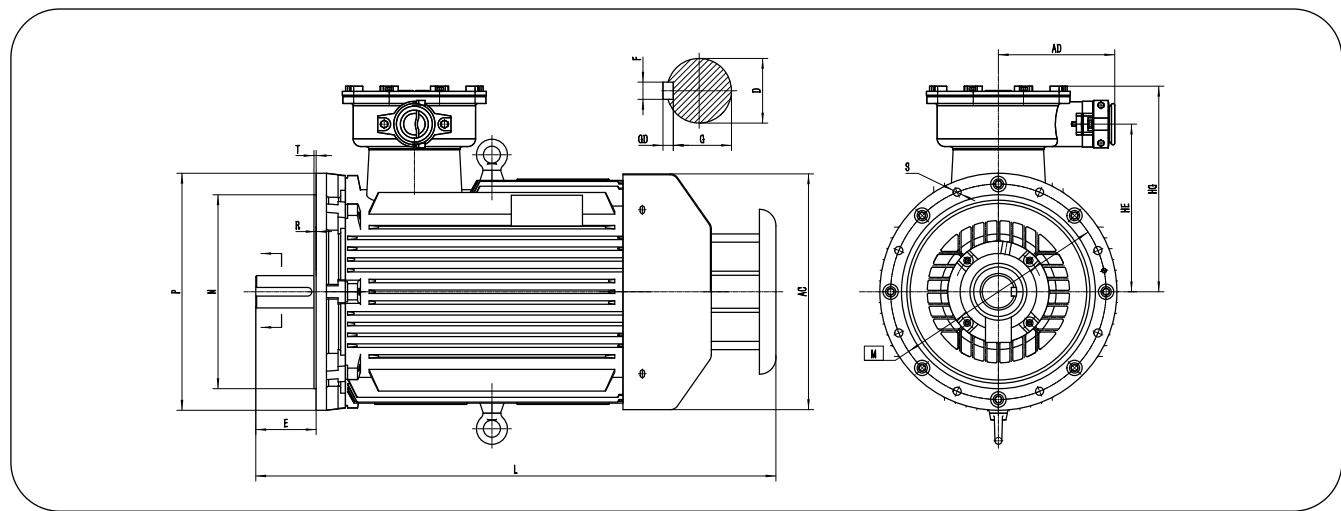


315-355 frame size outline drawing

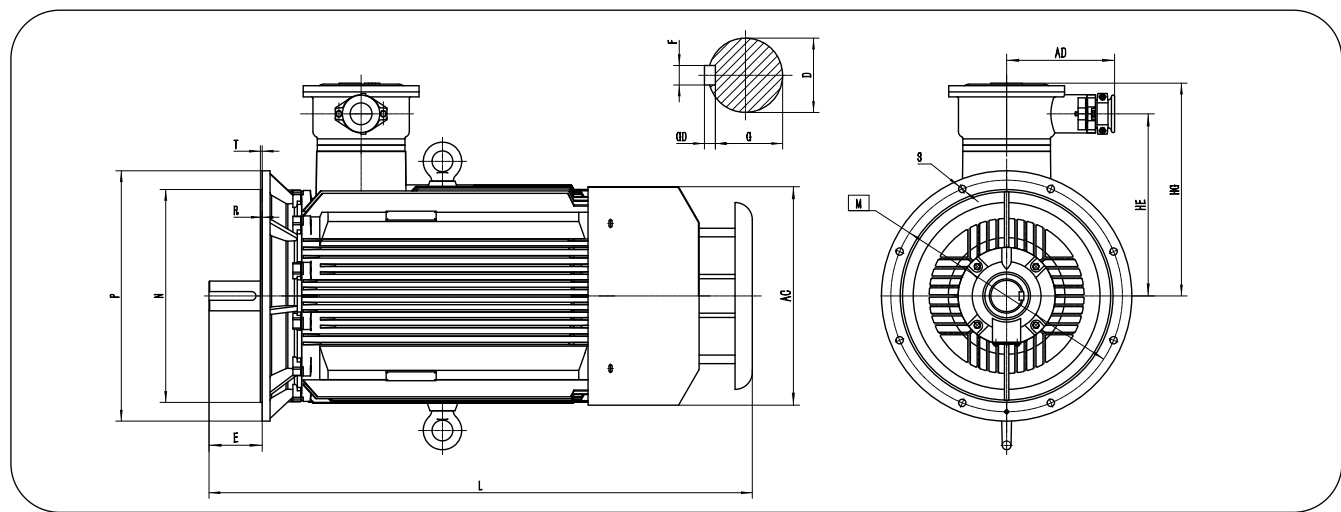
Outline Drawing (horizontal or vertical installation, frame without base feet, end cover with flange, with through holes)



90-132 frame size outline drawing



160-280 frame size outline drawing



315-355 frame size outline drawing



Overall dimensions & mounting tolerances (for frame with feet, end shield without flange)

Overall Dimensions									Mounting Tolerances																
Motor Model	AB	AC	AD	BB	HD	HE	L IC411	L IC416	A Basic Dimensions	B Basic Dimensions	C Basic Dimensions	C Limit Deviations	D Basic Dimensions	D Limit Deviations	E Basic Dimensions	E Limit Deviations	F Basic Dimensions	F Limit Deviations	G Basic Dimensions	G Limit Deviations	GD Basic Dimensions	H Basic Dimensions	H Limit Deviations	K Basic Dimensions	K Limit Deviations
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
TBVFC 90S	180	181	170	130	320	170	366	491	140	100	56	±1.5	24	+0.009 -0.004	50		8	0 -0.036	20		7	90		10	+0.36 0
TBVFC 90L	180	181	170	155	320	170	391	516	140	125	56		24		50		8		20		7	90		10	
TBVFC 100L	200	203	170	176	340	185	443	603	160	140	63	±2.0	28		60	8	24		7	100	12	0 -0.5	+0.43 0		
TBVFC 112M	240	221	185	180	365	185	507	671	190	140	70		28		60	8	24		7	112	12				
TBVFC 132S	280	260	185	190	415	215	509	667	216	140	89		38	80	10	33	8		132	12					
TBVFC 132M	280	260	185	230	415	215	549	707	216	178	89	38	80	±0.3	10	33	8		132	12					
TBVFC 160M	330	315	200	258	490	260	679	810	254	210	108	±3.0	42	+0.018 +0.002	110	12	37	8	160	14.5					
TBVFC 160L	330	315	200	302	490	260	709	840	254	254	108		42		110	12	37	8	160	14.5					
TBVFC 180M	355	356	200	311	530	280	762	887	279	241	121		48		110	14	42.5	9	180	14.5					
TBVFC 180L	355	356	200	349	530	280	782	907	279	279	121	48	110		±0.5	14	0 -0.043	42.5	9	180	14.5			0 -0.2	+0.52 0
TBVFC 200L	390	396	235	366	580	310	831	941	318	305	133	55	110	16		49		10	200	18.5					
TBVFC 225S	435	446	235	355	630	332	872	1006	356	286	149	±4.0	60	+0.030 +0.011	140			18	53	11	225	18.5			
TBVFC 225M	435	446	235	380	630	332	902	1036	356	311	149		60		140			18	53	11	225	18.5			
TBVFC 250M	490	495	275	420	700	360	951	1111	406	349	168		65		140	18	58	11	250	24					
TBVFC 280S	542	547	275	438	760	390	1002	1187	457	368	190		75		140	20	67.5	12	280	24					
TBVFC 280M	542	547	275	489	760	390	1057	1242	457	419	190		75		140	20	67.5	12	280	24					
TBVFC 315S	628	620	345	550	903	490	1266	1425	508	406	216		80		170	±0.5	22	0 -0.052	71	14	315	28			
TBVFC 315M	628	620	345	680	903	490	1386	1545	508	457	216		80	170	22		71		14	315	28				
TBVFC 315L	628	620	345	680	903	490	1386	1545	508	508	216		80	170	22		71		14	315	28				
TBVFC 355M	726	698	345	696	1035	585	1566	1756	610	560	254		95	170	+0.035 +0.013		25		86	14	355	28			
TBVFC 355L	726	698	345	766	1035	585	1676	1866	610	630	254		95	170		25	86	14	355	28					



Overall dimensions & mounting tolerances (for frame with feet, end shield with flange and through holes)

Overall Dimensions									Mounting Tolerances																												
Motor Model	AB	AC	AD	BB	HD	HE	L IC411	L IC416	A Basic Dimensions	B Basic Dimensions	C Basic Dimensions	C Limit Deviations	D Basic Dimensions	D Limit Deviations	E Basic Dimensions	E Limit Deviations	F Basic Dimensions	F Limit Deviations	G Basic Dimensions	G Limit Deviations	GD Basic Dimensions	H Basic Dimensions	H Limit Deviations	K Basic Dimensions	K Limit Deviations	M Basic Dimensions	N Basic Dimensions	N Limit Deviations	P Basic Dimensions	R Basic Dimensions	R Limit Deviations	S Basic Dimensions	S Limit Deviations	T Basic Dimensions	T Limit Deviations	Number Of Flange Holes	
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
TBVFC 90S	180	181	170	130	320	170	366	491	140	100	56	±1.5	24	+0.009 -0.004	50		8		20		7	90		10	+0.36 0	165	130	+0.014 -0.011	200	0	±1.5	12	+0.43 0	3.5		4	
TBVFC 90L	180	181	170	155	320	170	391	516	140	125	56		24		50		8		20		7	90		10		165	130		200	0		12		3.5		4	
TBVFC 100L	200	203	170	176	340	185	443	603	160	140	63	±2.0	28		60		8	0 -0.36	24		7	100		12		215	180		250	0	±2.0	15	+0.43 0	4		4	
TBVFC 112M	240	221	185	180	365	185	507	671	190	140	70		28		60		8		24		7	112		12		215	180		250	0		15		4		4	
TBVFC 132S	280	260	185	190	415	215	509	667	216	140	89	±3.0	38		80	±0.3	10		33		8	132		12	+0.43 0	265	230		300	0	±3.0	15		4		4	
TBVFC 132M	280	260	185	230	415	215	549	707	216	178	89		38		80		10		33		8	132		12		265	230		300	0		15		4		4	
TBVFC 160M	330	315	200	258	490	260	679	810	254	210	108	±4.0	42	+0.018 -0.002	110		12		37		8	160	0 -0.5	14.5	+0.43 0	300	250	+0.016 -0.013	350	0	±4.0	19	+0.52 0	5	0 -0.120	4	
TBVFC 160L	330	315	200	302	490	260	709	840	254	254	108		42		110		12		37		8	160		14.5		300	250		350	0		19		5		4	
TBVFC 180M	355	356	200	311	530	280	762	887	279	241	121	±3.0	48		110		14	0 -0.43	42.5	0 -0.20	9	180		14.5	+0.43 0	300	250		350	0	±3.0	19		5		4	
TBVFC 180L	355	356	200	349	530	280	782	907	279	279	121		48		110		14		42.5		9	180		14.5		300	250		350	0		19		5		4	
TBVFC 200L	390	396	235	366	580	310	831	941	318	305	133	±4.0	55		110	±0.5	16	0 -0.43	49	0 -0.20	10	200		18.5	+0.43 0	350	300	±0.016	400	0	±4.0	19		5		4	
TBVFC 225S	435	446	235	355	630	332	872	1006	356	286	149		60		140		18		53		11	225		18.5		400	350	±0.018	450	0		19		5		8	
TBVFC 225M	435	446	235	380	630	332	902	1036	356	311	149	±4.0	60		140		18		53		11	225		18.5		400	350		450	0		19		5		8	
TBVFC 250M	490	495	275	420	700	360	951	1111	406	349	168	±4.0	65	+0.030 -0.011	140	±0.5	18		58		11	250		24	+0.52 0	500	450		550	0	±4.0	19	+0.52 0	5		8	
TBVFC 280S	542	547	275	438	760	390	1002	1187	457	368	190		75		140		20		67.5		12	280		24		500	450		±0.020	550		0		19		5	8
TBVFC 280M	542	547	275	489	760	390	1057	1242	457	419	190	±4.0	75		140	±0.5	20	0 -0.52	67.5		12	280	0 -1.0	24	+0.52 0	500	450	±0.022	550	0	±4.0	19		5		8	
TBVFC 315S	628	620	345	550	903	490	1266	1425	508	406	216		80		170		22		71		14	315		28		600	550	±0.025	660	0		24		6		0 -0.15	8
TBVFC 315M	628	620	345	680	903	490	1386	1545	508	457	216	±4.0	80		170		22		71		14	315		28		600	550		660	0		24		6			8
TBVFC 315L	628	620	345	680	903	490	1386	1545	508	508	216	±4.0	80		170		22		71		14	315		28		600	550	±0.025	660	0		24		6			8
TBVFC 355M	726	698	345	696	1035	585	1566	1756	610	560	254		95	+0.035 -0.013	170		25		86		14	355		28		740	680		800	0		24		6			8
TBVFC 355L	726	698	345	766	1035	585	1676	1866	610	630	254		95		170		25		86		14	355		28		740	680		800	0		24		6	8		



Overall dimensions & mounting tolerances (for frame with feet, end shield with flange and through holes)

Overall Dimensions							Mounting Tolerances																			
Motor Model	AC	AD	HE	HG	L IC411	L IC416	D Basic Dimensions	D Limit Deviations	E Basic Dimensions	E Limit Deviations	F Basic Dimensions	F Limit Deviations	G Basic Dimensions	G Limit Deviations	GD Basic Dimensions	M	N Basic Dimensions	N Limit Deviations	P	R Basic Dimensions	R Limit Deviations	S Basic Dimensions	S Limit Deviations	T Basic Dimensions	T Limit Deviations	Number Of Flange Holes
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
TBVFC 90S	181	170	170	320	366	491	24	+0.009 -0.004	50	±0.3	8	0 -0.36	20	0 -0.20	7	165	130	+0.014 -0.011	200	0	±1.5	12	+0.43 0	3.5	0 -0.120	4
TBVFC 90L	181	170	170	320	391	516	24		50		8		20		7	165	130		200	0		12		3.5		4
TBVFC 100L	203	170	185	340	443	603	28		60		8		24		7	215	180		250	0	±2.0	15		4		4
TBVFC 112M	221	185	185	365	507	671	28		60		8		24		7	215	180		250	0		15		4		4
TBVFC 132S	260	185	215	415	509	667	38	+0.018 -0.002	80	±0.5	10	0 -0.43	33	0 -0.20	8	265	230	+0.016 -0.013	300	0	±3.0	15	+0.52 0	4	0 -0.15	4
TBVFC 132M	260	185	215	415	549	707	38		80		10		33		8	265	230		300	0		15		4		4
TBVFC 160M	315	200	260	490	679	810	42		110		12		37		8	300	250		350	0	±4.0	19		5		4
TBVFC 160L	315	200	260	490	709	840	42		110		12		37		8	300	250		350	0		19		5		4
TBVFC 180M	356	200	280	530	762	887	48	+0.030 -0.011	110	±0.5	14	0 -0.52	42.5	0 -0.20	9	300	250	±0.020	350	0	±4.0	19	+0.52 0	5	0 -0.15	4
TBVFC 180L	356	200	280	530	782	907	48		110		14		42.5		9	300	250		350	0		19		5		4
TBVFC 200L	396	235	310	580	831	941	55		110		16		49		10	350	300		400	0		19		5		4
TBVFC 225S	446	235	332	630	872	1006	60		140		18		53		11	400	350		450	0	±4.0	19		5		8
TBVFC 225M	446	235	332	630	902	1036	60	+0.035 -0.013	140		18		53	0 -0.20	11	400	350	±0.022	450	0		19		5		8
TBVFC 250M	495	275	360	700	951	1111	65		140		18		58		11	500	450		550	0		19		5		8
TBVFC 280S	547	275	390	760	1002	1187	75		140		20		67.5		12	500	450		550	0		19		5		8
TBVFC 280M	547	275	390	760	1057	1242	75	+0.035 -0.013	140	±0.5	20	0 -0.52	67.5	0 -0.20	12	500	450	±0.025	550	0	±4.0	19		5		8
TBVFC 315S	620	345	490	903	1266	1425	80		170		22		71		14	600	550		660	0		24		6		8
TBVFC 315M	620	345	490	903	1386	1545	80		170		22		71		14	600	550		660	0		24		6		8
TBVFC 315L	620	345	490	903	1386	1545	80		170		22		71		14	600	550		660	0		24		6		8
TBVFC 355M	698	345	585	1035	1566	1756	95	+0.035 -0.013	170	±0.5	25	0 -0.52	86	0 -0.20	14	740	680		800	0		24		6		8
TBVFC 355L	698	345	585	1035	1676	1866	95		170		25		86		14	740	680		800	0		24		6		8



TBVFQ series mining explosion-proof permanent magnet synchronous variable frequency motor

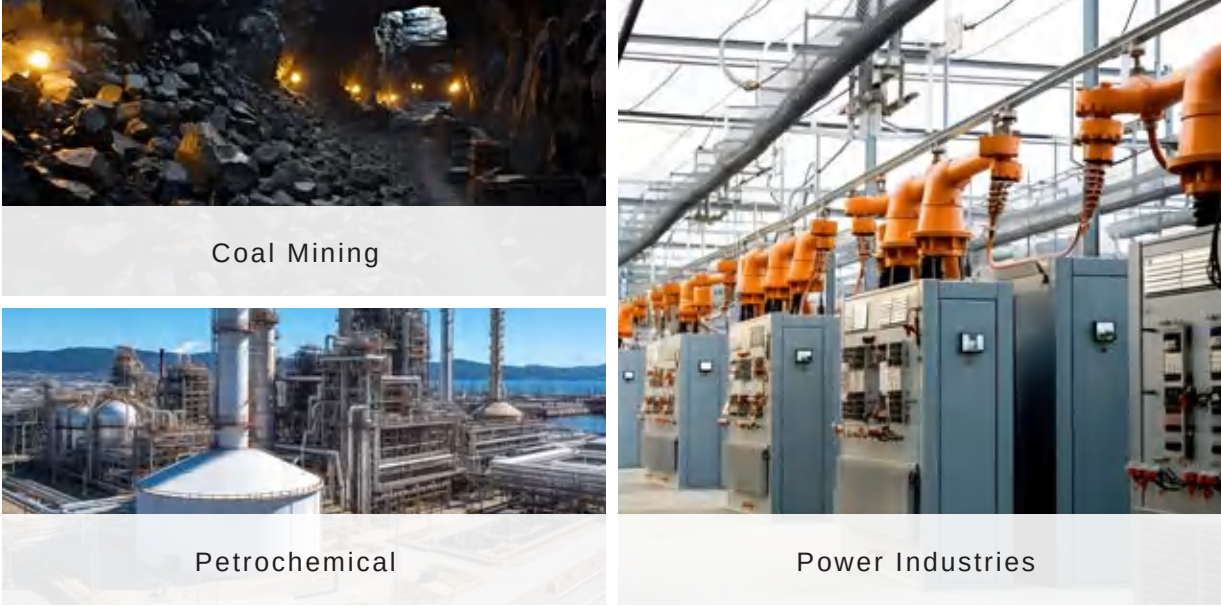


Product Features

The TBVFQ series motors are widely used in petrochemical, coal, metallurgy, power, and textile industries for driving conveyors, machine tools, fans, and compressors. They are suitable for IIC explosive gas environments (hydrogen, acetylene) in accordance with GB/T 3836-2021 (excluding coal mine methane), and also applicable to IIB and IIA environments. Designed for S1 continuous duty, with IC411 (self-cooling) or IC416 (forced cooling).

Frame sizes range from 90–355, with all performance parameters complying with Q/CTS JT006-2023. Efficiency exceeds GB 30253-2013 Grade 2, with some models reaching Grade 1.

Applications&Operating Conditions



Altitude ≤ 1000 m | Ambient temperature: -20°C to +40°C
Relative humidity ≤ 95% | Suitable for IIC explosive gas environments (hydrogen, acetylene) in accordance with GB/T 3836-2021, excluding coal mine methane environments

Product Advantages

- 01 Maintenance-free

Directly drives the load without a gearbox, eliminating the need for regular gearbox maintenance or replacement of belts and chains.
The TBVFQ series motors can convert electrical energy into mechanical energy more efficiently. A higher power factor results in lower motor current, reduced stator copper losses, and improved efficiency. This helps reduce the required capacity of the power supply and transformers, as well as the specifications of related switch-gear and cables, thereby lowering overall system and installation costs.
- 02 High efficiency and energy saving

Uses rare-earth permanent magnet materials to improve motor efficiency and power factor.
- 03 Low noise low vibration

Operates smoothly at both low and high speeds, with lower vibration and noise compared to induction motors.



Explanation of Explosion-Proof Marking

- Ex

Explosion-Proof Marking
- db

Flameproof Enclosure for EPL
Gb or Mb
- IIC

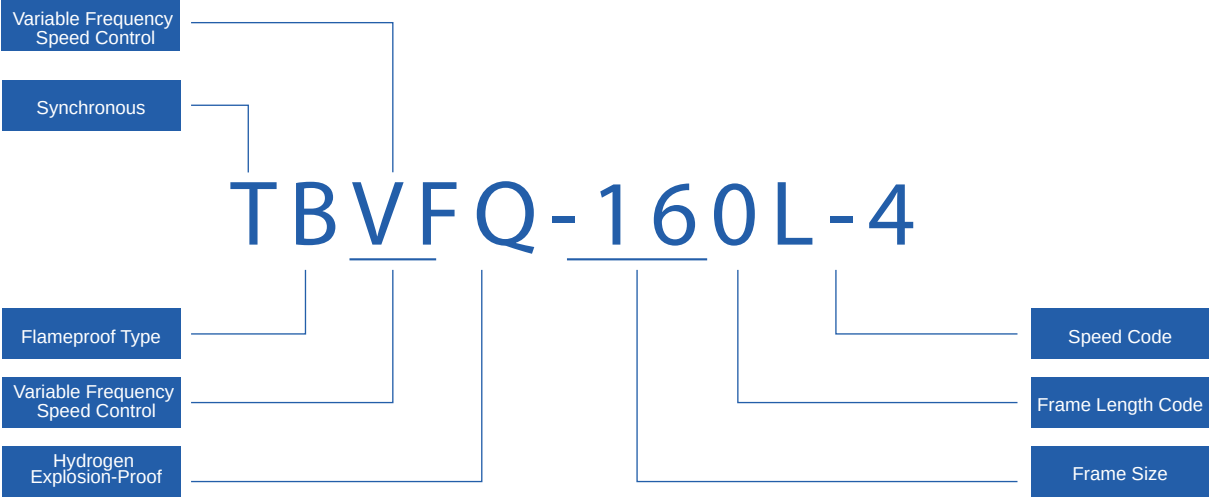
Equipment category is IIC
- T4

Temperature class is T4, meaning
the maximum surface temperature is
<135℃
- Gb

Equipment Protection Level



Naming Rules



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-90S1-2	1.5	3000	4.8	380	2.6	0.95	90.9	33
TBVFQ-90L1-2	2.2	3000	7.0	380	3.8	0.95	91.8	33
TBVFQ-90L2-2	3	3000	9.6	380	5.1	0.95	92.6	33
TBVFQ-90S1-4	1.1	1500	7.0	380	2	0.95	87.4	35
TBVFQ-90L1-4	1.5	1500	9.6	380	2.7	0.95	88.1	33
TBVFQ-90L2-4	3	1500	19.1	380	5.3	0.95	92.6	33
TBVFQ-90L3-4	2.2	1500	14.0	380	3.9	0.95	89.7	33
TBVFQ-90S1-6	0.75	1000	7.2	380	1.4	0.95	87.4	35
TBVFQ-90L1-6	1.1	1000	10.5	380	2	0.95	88.7	33
TBVFQ-90L2-6	1.5	1000	14.3	380	2.6	0.95	89.9	33
TBVFQ-90L1-8	1.1	750	14.0	380	2	0.95	83.5	33
TBVFQ-100L1-2	3	3000	9.6	380	5.1	0.95	92.6	43
TBVFQ-100L2-2	4	3000	12.7	380	6.8	0.95	93.3	43
TBVFQ-100L1-4	3	1500	19.1	380	5.3	0.95	90.3	43
TBVFQ-100L2-4	2.2	1500	14.0	380	3.9	0.95	89.7	43
TBVFQ-100L3-4	4	1500	25.5	380	7	0.95	93.3	43
TBVFQ-100L1-6	1.5	1000	14.3	380	2.6	0.95	89.8	43
TBVFQ-100L2-6	2.2	1000	21.0	380	3.8	0.95	90.9	43
TBVFQ-100L1-8	1.1	750	14.0	380	2	0.95	88.7	43
TBVFQ-100L2-8	1.5	750	19.1	380	3	0.95	84.5	43
TBVFQ-112M1-2	4	3000	12.7	380	6.8	0.95	93.3	65
TBVFQ-112M2-2	5.5	3000	17.5	380	9.3	0.95	94	65
TBVFQ-112M3-2	7.5	3000	23.9	380	12.6	0.95	94.5	65
TBVFQ-112M1-4	4	1500	25.5	380	7	0.95	90.9	65



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-112M2-4	5.5	1500	35.0	380	9.5	0.95	92.1	65
TBVFQ-112M3-4	7.5	1500	47.8	380	12.8	0.95	92.6	65
TBVFQ-112M1-6	2.2	1000	21.0	380	3.8	0.95	90.9	65
TBVFQ-112M2-6	3	1000	28.7	380	5.2	0.95	91.8	65
TBVFQ-112M3-6	4	1000	38.2	380	6.8	0.95	92.7	65
TBVFQ-112M4-6	5.5	1000	52.5	380	9.3	0.95	93.4	65
TBVFQ-112M1-8	2.2	750	28.0	380	4.2	0.95	90	65
TBVFQ-112M2-8	3	750	38.2	380	5.5	0.95	91	65
TBVFQ-132S1-2	5.5	3000	17.5	380	9.3	0.95	94	86
TBVFQ-132S2-2	7.5	3000	23.9	380	12.6	0.95	94.5	86
TBVFQ-132M1-2	11	3000	35.0	380	18.5	0.95	95	92
TBVFQ-132M2-2	15	3000	47.8	380	25.2	0.95	95.3	92
TBVFQ-132S1-4	5.5	1500	35.0	380	9.5	0.95	92.1	92
TBVFQ-132M1-4	7.5	1500	47.8	380	12.8	0.95	92.6	92
TBVFQ-132M2-4	11	1500	70.0	380	18.6	0.95	93.6	92
TBVFQ-132S1-6	3	1000	28.7	380	5.2	0.95	91.8	86
TBVFQ-132M1-6	4	1000	38.2	380	6.8	0.95	92.7	92
TBVFQ-132M2-6	5.5	1000	52.5	380	9.3	0.95	93.4	92
TBVFQ-132M3-6	7.5	1000	71.6	380	12.8	0.95	92.6	92
TBVFQ-132S1-8	2.2	750	28.0	380	3.9	0.95	90	86
TBVFQ-132M1-8	3	750	38.2	380	5.2	0.95	91	92
TBVFQ-132M2-8	4	750	50.9	380	7.1	0.95	87.8	92
TBVFQ-132M3-8	5.5	750	70.0	380	9.7	0.95	88.6	92
TBVFQ-132M1-10	4	600	63.7	380	7	0.95	86.8	92

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-132M2-10	4	700	54.6	380	7	0.95	86.8	92
TBVFQ-132M3-10	5.5	600	87.5	380	9.5	0.95	88.9	92
TBVFQ-132M4-10	5.5	700	75.0	380	9.5	0.95	88.9	92
TBVFQ-132M1-12	3	500	57.3	380	5.3	0.95	85.6	92
TBVFQ-132M2-12	4	500	76.4	380	7	0.95	86.8	92
TBVFQ-132M1-14	3	400	71.6	380	5.3	0.95	84.7	92
TBVFQ-132M1-16	2.2	350	60.0	380	3.8	0.95	83.4	92
TBVFQ-132M2-16	3	350	81.9	380	5.3	0.95	84.7	92
TBVFQ-132M1-18	2.2	300	70.0	380	3.8	0.95	83.4	92
TBVFQ-132M1-20	1.5	250	57.3	380	2.7	0.95	81.2	92
TBVFQ-132M2-20	2.2	250	84.0	380	3.8	0.95	82.7	92
TBVFQ-132M1-22	1.1	200	52.5	380	2	0.95	79.6	92
TBVFQ-132M2-22	1.5	200	71.6	380	2.7	0.95	81.2	92
TBVFQ-132M3-22	1.5	230	62.3	380	2.7	0.95	81.2	92
TBVFQ-132M4-22	2.2	230	91.3	380	3.8	0.95	82.7	92
TBVFQ-132M1-24	1.1	150	70.0	380	2	0.95	78.9	92
TBVFQ-132M2-24	1.1	180	58.4	380	2	0.95	79.6	92
TBVFQ-132M3-24	1.5	180	79.6	380	2.7	0.95	80.6	92
TBVFQ-132M1-26	0.55	100	52.5	380	1	0.95	71.4	92
TBVFQ-132M2-26	0.75	100	71.6	380	1.3	0.95	76	92
TBVFQ-132M3-26	0.75	120	59.7	380	1.3	0.95	76.5	92
TBVFQ-132M4-26	1.1	120	87.5	380	2	0.95	78.4	92
TBVFQ-132M1-28	0.55	60	87.5	380	1	0.95	71.4	92
TBVFQ-132M2-28	0.55	70	75.0	380	1	0.95	71.4	92



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-132M3-28	0.55	80	65.7	380	1	0.95	71.4	92
TBVFQ-132M4-28	0.55	90	58.4	380	1	0.95	71.4	92
TBVFQ-132M5-28	0.75	80	89.5	380	1.3	0.95	76	92
TBVFQ-132M6-28	0.75	90	79.6	380	1.3	0.95	76	92
TBVFQ-160M1-2	11	3000	35.0	380	18.5	0.95	95	118
TBVFQ-160M2-2	15	3000	47.8	380	25.2	0.95	95.3	118
TBVFQ-160L1-2	18.5	3000	58.9	380	30.9	0.95	95.6	124
TBVFQ-160L2-2	22	3000	70.0	380	36.3	0.95	95.9	124
TBVFQ-160M1-4	11	1500	70.0	380	18.6	0.95	93.6	124
TBVFQ-160L1-4	15	1500	95.5	380	25.3	0.95	94	124
TBVFQ-160L2-4	18.5	1500	117.8	380	31	0.95	94.3	124
TBVFQ-160L3-4	22	1500	140.1	380	36.8	0.95	94.7	124
TBVFQ-160L1-6	11	1000	105.1	380	18.6	0.95	94.5	124
TBVFQ-160L2-6	15	1000	143.3	380	25	0.95	94.9	124
TBVFQ-160L1-8	11	750	140.1	380	18.6	0.95	94.5	124
TBVFQ-160L1-10	7.5	700	102.3	380	12.8	0.95	88.5	124
TBVFQ-160L2-10	11	700	150.1	380	18.6	0.95	89.6	124
TBVFQ-160L1-12	5.5	500	105.1	380	9.5	0.95	87.8	124
TBVFQ-160L2-12	7.5	500	143.3	380	12.8	0.95	88.5	124
TBVFQ-160L1-16	4	350	109.1	380	7	0.95	85.9	124
TBVFQ-160L2-16	5.5	350	150.1	380	9.5	0.95	87	124
TBVFQ-160L1-18	3	300	95.5	380	5.3	0.95	84.7	124
TBVFQ-160L2-18	4	300	127.3	380	7	0.95	85.9	124
TBVFQ-160L3-18	5.5	300	175.1	380	9.5	0.95	87	124

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-160L2-20	3	250	114.6	380	5.3	0.95	84	124
TBVFQ-160L3-20	4	250	152.8	380	7	0.95	85.3	124
TBVFQ-160L1-22	2.2	200	105.1	380	3.8	0.95	82.7	124
TBVFQ-160L2-22	2.2	230	91.3	380	3.8	0.95	82.7	124
TBVFQ-160L3-22	3	200	143.3	380	5.3	0.95	84	124
TBVFQ-160L4-22	3	230	124.6	380	5.3	0.95	84	124
TBVFQ-160L5-22	4	200	191.0	380	7	0.95	85.3	124
TBVFQ-160L6-22	4	230	166.1	380	7	0.95	85.3	124
TBVFQ-160L1-24	1.5	150	95.5	380	2.7	0.95	80.6	124
TBVFQ-160L2-24	2.2	150	140.1	380	3.8	0.95	82.1	124
TBVFQ-160L3-24	2.2	180	116.7	380	3.8	0.95	82.1	124
TBVFQ-160L4-24	3	150	191.0	380	5.3	0.95	83.5	124
TBVFQ-160L5-24	3	180	159.2	380	5.3	0.95	83.5	124
TBVFQ-160L1-26	1.5	100	143.3	380	2.7	0.95	79.6	124
TBVFQ-160L2-26	1.5	120	119.4	380	2.7	0.95	80.1	124
TBVFQ-160L3-26	2.2	120	175.1	380	3.8	0.95	81.7	124
TBVFQ-160L1-28	0.55	50	105.1	380	1	0.95	71.4	124
TBVFQ-160L2-28	0.75	50	143.3	380	1.3	0.95	76	124
TBVFQ-160L3-28	0.75	60	119.4	380	1.3	0.95	76	124
TBVFQ-160L4-28	0.75	70	102.3	380	1.3	0.95	76	124
TBVFQ-160L5-28	1.1	60	175.1	380	2	0.95	77.9	124
TBVFQ-160L6-28	1.1	70	150.1	380	2	0.95	77.9	124
TBVFQ-160L7-28	1.1	80	131.3	380	2	0.95	77.9	124
TBVFQ-160L8-28	1.1	90	116.7	380	2	0.95	77.9	124



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-160L9-28	1.5	80	179.1	380	2.7	0.95	79.6	124
TBVFQ-160L10-28	1.5	90	159.2	380	2.7	0.95	79.6	124
TBVFQ-160L1-30	0.55	40	131.3	380	1	0.95	71.4	124
TBVFQ-160L2-30	0.75	40	179.1	380	1.3	0.95	76	124
TBVFQ-180M1-2	22	3000	70.0	380	36.3	0.95	95.9	180
TBVFQ-180L1-2	30	3000	95.5	380	49.1	0.95	96.1	185
TBVFQ-180L2-2	37	3000	117.8	380	60.8	0.95	96.3	185
TBVFQ-180M1-4	18.5	1500	117.8	380	31	0.95	94.3	180
TBVFQ-180L1-4	22	1500	140.1	380	36.8	0.95	94.7	185
TBVFQ-180L2-4	30	1500	191.0	380	50	0.95	95	185
TBVFQ-180L1-6	15	1000	143.3	380	25	0.95	94.9	185
TBVFQ-180L2-6	18.5	1000	176.7	380	30.7	0.95	95.3	185
TBVFQ-180L3-6	22	1000	210.1	380	36.4	0.95	95.6	185
TBVFQ-180L1-8	11	750	140.1	380	18.6	0.95	93.7	185
TBVFQ-180L2-8	15	750	191.0	380	25.2	0.95	94.2	185
TBVFQ-180L1-10	15	700	204.6	380	25.3	0.95	90.4	185
TBVFQ-180L2-10	18.5	700	252.4	380	31	0.95	91	185
TBVFQ-180L3-10	22	700	300.1	380	36.8	0.95	91.6	185
TBVFQ-180L1-12	11	500	210.1	380	18.6	0.95	89.6	185
TBVFQ-180L2-12	15	500	286.5	380	25.3	0.95	90.4	185
TBVFQ-180L3-12	18.5	500	353.4	380	31	0.95	91	185
TBVFQ-180L1-16	7.5	350	204.6	380	12.8	0.95	88	185
TBVFQ-180L2-16	11	350	300.1	380	18.6	0.95	88.8	185
TBVFQ-180L1-18	7.5	300	238.8	380	12.8	0.95	88	185

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-180L2-18	11	300	350.2	380	18.6	0.95	88.8	124
TBVFQ-180L1-20	5.5	250	210.1	380	9.5	0.95	86.4	124
TBVFQ-180L2-20	7.5	250	286.5	380	12.8	0.95	87.4	124
TBVFQ-180L1-22	5.5	200	262.6	380	9.5	0.95	86.4	124
TBVFQ-180L2-22	5.5	230	228.4	380	9.5	0.95	86.4	180
TBVFQ-180L3-22	7.5	230	311.4	380	12.8	0.95	87.4	185
TBVFQ-180L1-24	4	150	254.7	380	7	0.95	84.7	185
TBVFQ-180L2-24	4	180	212.2	380	7	0.95	84.7	180
TBVFQ-180L3-24	5.5	150	350.2	380	9.5	0.95	85.8	185
TBVFQ-180L4-24	5.5	180	291.8	380	9.5	0.95	85.8	185
TBVFQ-180L1-26	3	100	286.5	380	5.3	0.95	82.6	185
TBVFQ-180L2-26	3	120	238.8	380	5.3	0.95	83.1	185
TBVFQ-180L3-26	4	120	318.3	380	7	0.95	84.3	185
TBVFQ-180L1-28	1.1	50	210.1	380	2	0.95	77.9	185
TBVFQ-180L2-28	1.5	50	286.5	380	2.7	0.95	79.6	185
TBVFQ-180L3-28	1.5	60	238.8	380	2.7	0.95	79.6	185
TBVFQ-180L4-28	1.5	70	204.6	380	2.7	0.95	79.6	185
TBVFQ-180L5-28	2.2	60	350.2	380	3.8	0.95	81.1	185
TBVFQ-180L6-28	2.2	70	300.1	380	3.8	0.95	81.1	185
TBVFQ-180L7-28	2.2	80	262.6	380	3.8	0.95	81.1	185
TBVFQ-180L8-28	2.2	90	233.4	380	3.8	0.95	81.1	185
TBVFQ-180L9-28	3	90	318.3	380	5.3	0.95	82.6	185
TBVFQ-180L1-30	1.1	40	262.6	380	2	0.95	77.9	185
TBVFQ-200L1-2	30	3000	95.5	380	49.1	0.95	96.1	220



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-200L2-2	37	3000	117.8	380	60.8	0.95	96.3	220
TBVFQ-200L3-2	45	3000	143.3	380	75	0.95	96.4	220
TBVFQ-200L1-4	30	1500	191.0	380	50	0.95	95	220
TBVFQ-200L2-4	37	1500	235.6	380	64.1	0.95	95.3	220
TBVFQ-200L3-4	45	1500	286.5	380	74.5	0.95	95.6	220
TBVFQ-200L1-6	18.5	1000	176.7	380	30.7	0.95	95.3	220
TBVFQ-200L2-6	22	1000	210.1	380	36.4	0.95	95.6	220
TBVFQ-200L3-6	30	1000	286.5	380	49.6	0.95	95.8	220
TBVFQ-200L1-8	15	750	191.0	380	25.2	0.95	94.2	220
TBVFQ-200L2-8	18.5	750	235.6	380	31	0.95	94.6	220
TBVFQ-200L3-8	22	750	280.1	380	36.7	0.95	94.9	220
TBVFQ-200L1-10	30	700	409.3	380	50	0.95	92	220
TBVFQ-200L1-12	18.5	500	353.4	380	31	0.95	91	220
TBVFQ-200L2-12	22	500	420.2	380	36.8	0.95	91.6	220
TBVFQ-200L1-16	15	350	409.3	380	25.3	0.95	89.6	220
TBVFQ-200L2-16	18.5	350	504.8	380	31	0.95	90.3	220
TBVFQ-200L1-18	11	300	350.2	380	18.6	0.95	88.8	220
TBVFQ-200L2-18	15	300	477.5	380	25.3	0.95	89.6	220
TBVFQ-200L1-20	11	250	420.2	380	18.6	0.95	88.3	220
TBVFQ-200L1-22	7.5	200	358.1	380	12.8	0.95	87.4	220
TBVFQ-200L2-22	11	200	525.3	380	18.6	0.95	88.3	220
TBVFQ-200L3-22	11	230	456.7	380	18.6	0.95	88.3	220
TBVFQ-200L1-24	5.5	150	350.2	380	9.5	0.95	85.8	220
TBVFQ-200L2-24	7.5	150	477.5	380	12.8	0.95	86.9	220

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-200L3-24	7.5	180	397.9	380	12.8	0.95	86.9	220
TBVFQ-200L1-26	4	100	382.0	380	7	0.95	83.8	220
TBVFQ-200L2-26	5.5	100	525.3	380	9.5	0.95	85	220
TBVFQ-200L3-26	5.5	120	437.7	380	9.5	0.95	85.5	220
TBVFQ-200L1-28	2.2	50	420.2	380	3.8	0.95	81.1	220
TBVFQ-200L2-28	3	60	477.5	380	5.3	0.95	82.6	220
TBVFQ-200L3-28	3	70	409.3	380	5.3	0.95	82.6	220
TBVFQ-200L4-28	3	80	358.1	380	5.3	0.95	82.6	220
TBVFQ-200L5-28	4	80	477.5	380	7	0.95	83.8	220
TBVFQ-200L6-28	4	90	424.4	380	7	0.95	83.8	220
TBVFQ-200L1-30	1.5	40	358.1	380	2.7	0.95	79.6	220
TBVFQ-200L2-30	2.2	40	525.3	380	3.8	0.95	81.1	220
TBVFQ-225M1-2	45	3000	143.3	380	75	0.95	96.4	291
TBVFQ-225M2-2	55	3000	175.1	380	91.2	0.95	96.5	291
TBVFQ-225S1-4	37	1500	235.6	380	64.1	0.95	95.3	280
TBVFQ-225M1-4	45	1500	286.5	380	74.5	0.95	95.6	291
TBVFQ-225M2-4	55	1500	350.2	380	90.9	0.95	95.8	291
TBVFQ-225M1-6	30	1000	286.5	380	49.6	0.95	95.8	291
TBVFQ-225M2-6	37	1000	353.4	380	61	0.95	96	291
TBVFQ-225S1-8	18.5	750	235.6	380	31	0.95	94.6	280
TBVFQ-225M1-8	22	750	280.1	380	36.7	0.95	94.9	291
TBVFQ-225M2-8	30	750	382.0	380	49.9	0.95	95.1	291
TBVFQ-225M1-12	30	500	573.0	380	50	0.95	92	291
TBVFQ-225M1-14	22	400	525.3	380	36.8	0.95	90.9	291



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-225M2-14	22	400	525.3	380	36.8	0.95	90.9	291
TBVFQ-225M1-16	18.5	350	504.8	380	31	0.95	90.3	291
TBVFQ-225M2-16	22	350	600.3	380	36.8	0.95	90.9	291
TBVFQ-225M1-18	15	300	477.5	380	25.3	0.95	89.6	291
TBVFQ-225M2-18	18.5	300	588.9	380	31	0.95	90.3	291
TBVFQ-225M1-22	11	200	525.3	380	18.6	0.95	88.3	291
TBVFQ-225M2-22	11	230	456.7	380	18.6	0.95	88.3	291
TBVFQ-225M3-22	15	230	622.8	380	25.3	0.95	89	291
TBVFQ-225L1-22	15	210	682.1	380	25.3	0.95	89	302
TBVFQ-225L2-22	15	220	651.1	380	25.3	0.95	89	302
TBVFQ-225M1-24	7.5	150	477.5	380	12.8	0.95	86.5	291
TBVFQ-225M2-24	7.5	160	447.7	380	12.8	0.95	86.9	291
TBVFQ-225M3-24	11	170	617.9	380	18.6	0.95	87.8	291
TBVFQ-225M4-24	11	180	583.6	380	18.6	0.95	87.8	291
TBVFQ-225M5-24	15	190	753.9	380	25.3	0.95	88.6	291
TBVFQ-225M1-26	5.5	100	525.3	380	9.5	0.95	85	291
TBVFQ-225M2-26	7.5	120	596.9	380	12.8	0.95	86.5	291
TBVFQ-225M3-26	7.5	110	651.1	380	12.8	0.95	86.5	291
TBVFQ-225M4-26	7.5	130	551.0	380	12.8	0.95	86.5	291
TBVFQ-225M5-26	7.5	140	511.6	380	12.8	0.95	86.5	291
TBVFQ-225M1-28	3	65	440.8	380	5.3	0.95	82.6	291
TBVFQ-225M2-28	4	65	587.7	380	7	0.95	83.8	291
TBVFQ-225M3-28	4	80	477.5	380	7	0.95	83.8	291
TBVFQ-225M4-28	4	85	449.4	380	7	0.95	83.8	291

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-225M5-28	5.5	80	656.6	380	9.5	0.95	85	291
TBVFQ-225M6-28	5.5	85	617.9	380	9.5	0.95	85	291
TBVFQ-225M7-28	5.5	90	583.6	380	9.5	0.95	85	291
TBVFQ-225M8-28	3	50	573.0	380	5.3	0.95	82.6	291
TBVFQ-225M9-28	3	55	520.9	380	5.3	0.95	82.6	291
TBVFQ-225M10-28	3	60	477.5	380	5.3	0.95	82.6	291
TBVFQ-225M11-28	3	70	409.3	380	5.3	0.95	82.6	291
TBVFQ-225M12-28	5.5	75	700.3	380	9.5	0.95	85	291
TBVFQ-225M13-28	5.5	95	552.9	380	9.5	0.95	85	291
TBVFQ-225M1-30	2.2	40	525.3	380	3.8	0.95	81.1	291
TBVFQ-225M2-30	3	45	636.7	380	5.3	0.95	82.6	291
TBVFQ-250M1-2	55	3000	175.1	380	91.2	0.95	96.5	375
TBVFQ-250M2-2	75	3000	238.8	380	124.2	0.95	96.6	375
TBVFQ-250M1-4	55	1500	350.2	380	90.9	0.95	95.8	375
TBVFQ-250M2-4	75	1500	477.5	380	123.6	0.95	96	375
TBVFQ-250M1-6	37	1000	353.4	380	61	0.95	96	375
TBVFQ-250M2-6	45	1000	429.8	380	74	0.95	96.2	375
TBVFQ-250M1-8	30	750	382.0	380	49.9	0.95	95.1	375
TBVFQ-250M2-8	37	750	471.1	380	64.4	0.95	95.3	375
TBVFQ-250M1-12	37	500	706.7	380	61.4	0.95	92.4	375
TBVFQ-250M2-12	45	500	859.5	380	75	0.95	92.8	375
TBVFQ-250M3-12	55	500	1050.5	380	91.5	0.95	93.1	375
TBVFQ-250M1-14	30	400	716.3	380	50	0.95	91.4	375
TBVFQ-250M2-14	37	400	883.4	380	61.4	0.95	91.8	375



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-250M3-14	45	400	1074.4	380	75	0.95	92.2	375
TBVFQ-250M1-16	22	350	600.3	380	36.8	0.95	90.9	375
TBVFQ-250M2-16	30	350	818.6	380	50	0.95	91.4	375
TBVFQ-250M3-16	37	350	1009.6	380	61.4	0.95	92.4	375
TBVFQ-250M1-18	18.5	300	588.9	380	31	0.95	90.3	375
TBVFQ-250M2-18	22	300	700.3	380	36.8	0.95	90.9	375
TBVFQ-250M3-18	30	300	955.0	380	50	0.95	91.4	375
TBVFQ-250M1-22	15	200	716.3	380	25.3	0.95	89	375
TBVFQ-250M2-22	15	230	622.8	380	25.3	0.95	89	375
TBVFQ-250M3-22	18.5	200	883.4	380	31	0.95	89.7	375
TBVFQ-250M4-22	18.5	230	768.2	380	31	0.95	89.7	375
TBVFQ-250M5-22	22	230	913.5	380	36.8	0.95	90.3	375
TBVFQ-250M6-22	22	210	1000.5	380	36.8	0.95	90.3	375
TBVFQ-250M7-22	22	220	955.0	380	36.8	0.95	90.3	375
TBVFQ-250M1-24	11	150	700.3	380	18.6	0.95	87.8	375
TBVFQ-250M2-24	11	160	656.6	380	18.6	0.95	87.8	375
TBVFQ-250M3-24	15	150	955.0	380	25.3	0.95	88.6	375
TBVFQ-250M4-24	15	160	895.3	380	25.3	0.95	88.6	375
TBVFQ-250M5-24	18.5	170	1039.3	380	31	0.95	88.9	375
TBVFQ-250M6-24	18.5	180	981.5	380	31	0.95	88.9	375
TBVFQ-250M7-24	22	190	1105.8	380	36.8	0.95	89.9	375
TBVFQ-250M1-26	7.5	100	716.3	380	12.8	0.95	86	375
TBVFQ-250M2-26	7.5	120	596.9	380	12.8	0.95	86.5	375
TBVFQ-250M3-26	11	100	1050.5	380	18.6	0.95	87	375

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-250M4-26	11	120	875.4	380	18.6	0.95	87.4	375
TBVFQ-250M5-26	11	110	955.0	380	18.6	0.95	87	375
TBVFQ-250M6-26	15	130	1101.9	380	25.3	0.95	88.6	375
TBVFQ-250M7-26	15	140	1023.2	380	25.3	0.95	88.6	375
TBVFQ-250M1-28	5.5	55	955.0	380	9.5	0.95	85	375
TBVFQ-250M2-28	5.5	65	808.1	380	9.5	0.95	85	375
TBVFQ-250M3-28	5.5	80	656.6	380	9.5	0.95	85	375
TBVFQ-250M4-28	5.5	85	617.9	380	9.5	0.95	85	375
TBVFQ-250M5-28	5.5	90	583.6	380	9.5	0.95	85	375
TBVFQ-250M6-28	7.5	80	895.3	380	12.8	0.95	86	375
TBVFQ-250M7-28	7.5	85	842.6	380	12.8	0.95	86	375
TBVFQ-250M8-28	7.5	90	795.8	380	12.8	0.95	86	375
TBVFQ-250M9-28	5.5	50	1050.5	380	9.5	0.95	85	375
TBVFQ-250M10-28	5.5	60	875.4	380	9.5	0.95	85	375
TBVFQ-250M11-28	7.5	70	1023.2	380	12.8	0.95	86	375
TBVFQ-250M12-28	7.5	75	955.0	380	12.8	0.95	86	375
TBVFQ-250M13-28	7.5	85	842.6	380	12.8	0.95	86	375
TBVFQ-250M14-28	11	95	1105.8	380	18.6	0.95	87	375
TBVFQ-250M1-30	3	40	716.3	380	5.3	0.95	82.6	375
TBVFQ-250M2-30	3	45	636.7	380	5.3	0.95	82.6	375
TBVFQ-280S1-2	75	3000	238.8	380	124.2	0.95	91.4	569
TBVFQ-280M1-2	90	3000	286.5	380	148.7	0.95	91.8	598
TBVFQ-280M2-2	110	3000	350.2	380	181.3	0.95	91.7	598
TBVFQ-280S1-4	75	1500	477.5	380	123.6	0.95	92.1	569



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-280M1-4	90	1500	573.0	380	148.1	0.95	88.5	598
TBVFQ-280M2-4	110	1500	700.3	380	180.6	0.95	89.2	598
TBVFQ-280S1-6	45	1000	429.8	380	74	0.95	89.2	569
TBVFQ-280M1-6	55	1000	525.3	380	90.4	0.95	89.7	598
TBVFQ-280M2-6	75	1000	716.3	380	123.1	0.95	90.1	598
TBVFQ-280S1-8	37	750	471.1	380	64.4	0.95	90.2	569
TBVFQ-280M1-8	45	750	573.0	380	74.6	0.95	90.5	598
TBVFQ-280M2-8	55	750	700.3	380	91.1	0.95	87	598
TBVFQ-280M1-12	55	500	1050.5	380	91.5	0.95	87.8	598
TBVFQ-280M1-14	45	400	1074.4	380	75	0.95	87.8	598
TBVFQ-280M2-14	55	400	1313.1	380	91.5	0.95	87.8	598
TBVFQ-280M1-16	37	350	1009.6	380	61.4	0.95	88.5	598
TBVFQ-280M2-16	45	350	1227.9	380	75	0.95	88.5	598
TBVFQ-280M3-16	55	350	1500.7	380	91.5	0.95	88.5	598
TBVFQ-280M1-18	37	300	1177.8	380	61.4	0.95	88.5	598
TBVFQ-280M2-18	45	300	1432.5	380	75	0.95	89.2	598
TBVFQ-280M1-22	30	230	1245.7	380	50	0.95	89.2	598
TBVFQ-280M2-22	37	230	1536.3	380	61.4	0.95	89.2	598
TBVFQ-280M3-22	30	200	1432.5	380	50	0.95	89.2	598
TBVFQ-280M4-22	30	210	1364.3	380	50	0.95	89.7	598
TBVFQ-280M5-22	30	220	1302.3	380	50	0.95	89.7	598
TBVFQ-280M1-24	15	150	955.0	380	25.3	0.95	89.7	598
TBVFQ-280M2-24	18.5	150	1177.8	380	31	0.95	86	598
TBVFQ-280M3-24	18.5	160	1104.2	380	31	0.95	87	598

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-280M4-24	22	150	1400.7	380	36.8	0.95	97.2	598
TBVFQ-280M5-24	22	160	1313.1	380	36.8	0.95	96.8	598
TBVFQ-280M6-24	22	195	1077.4	380	36.8	0.95	96.4	598
TBVFQ-280M7-24	30	195	1469.2	380	50	0.95	96.4	598
TBVFQ-280M8-24	22	170	1235.9	380	36.8	0.95	95.8	598
TBVFQ-280M9-24	22	180	1167.2	380	36.8	0.95	95.8	598
TBVFQ-280M10-24	30	190	1507.9	380	50	0.95	97.2	598
TBVFQ-280M1-26	11	100	1050.5	380	18.6	0.95	96.7	598
TBVFQ-280M2-26	15	100	1432.5	380	25.3	0.95	96.8	598
TBVFQ-280M3-26	15	120	1193.8	380	25.3	0.95	96.3	598
TBVFQ-280M4-26	18.5	120	1472.3	380	31	0.95	97	598
TBVFQ-280M5-26	15	110	1302.3	380	25.3	0.95	97	598
TBVFQ-280M6-26	18.5	130	1359.0	380	31	0.95	95.8	598
TBVFQ-280M7-26	22	140	1500.7	380	36.8	0.95	95.7	598
TBVFQ-280M1-28	11	65	1616.2	380	18.6	0.95	95.8	598
TBVFQ-280M2-28	11	75	1400.7	380	18.6	0.95	95.8	598
TBVFQ-280M3-28	11	80	1313.1	380	18.6	0.95	95.4	598
TBVFQ-280M4-28	11	85	1235.9	380	18.6	0.95	94.9	598
TBVFQ-280M5-28	11	90	1167.2	380	18.6	0.95	94.9	598
TBVFQ-280M6-28	7.5	50	1432.5	380	12.8	0.95	93.2	598
TBVFQ-280M7-28	7.5	55	1302.3	380	12.8	0.95	94.9	598
TBVFQ-280M8-28	7.5	60	1193.8	380	12.8	0.95	93.2	598
TBVFQ-280M9-28	11	70	1500.7	380	18.6	0.95	93.2	598
TBVFQ-280M10-28	15	95	1507.9	380	25.3	0.95	92.7	598



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBFVQ-280M11-28	15	90	1591.7	380	25.3	0.95	92.9	598
TBFVQ-280M1-30	5.5	40	1313.1	380	9.5	0.95	91.7	598
TBFVQ-280M2-30	5.5	45	1167.2	380	9.5	0.95	92	598
TBFVQ-315S1-2	110	3000	350.2	380	181.3	0.95	96.8	810
TBFVQ-315M1-2	132	3000	420.2	380	217.6	0.95	96.9	889
TBFVQ-315M2-2	160	3000	509.3	380	263.2	0.95	97	889
TBFVQ-315L1-2	200	3000	636.7	380	328.7	0.95	97.2	970
TBFVQ-315L2-2	250	3000	795.8	380	410.4	0.95	97.2	970
TBFVQ-315S1-4	110	1500	700.3	380	180.6	0.95	96.4	810
TBFVQ-315M1-4	132	1500	840.4	380	216.5	0.95	96.5	889
TBFVQ-315M2-4	160	1500	1018.7	380	262.4	0.95	96.5	889
TBFVQ-315L1-4	200	1500	1273.3	380	327.7	0.95	96.6	970
TBFVQ-315L2-4	250	1500	1591.7	380	409.2	0.95	96.7	970
TBFVQ-315S1-6	75	1000	716.3	380	123.1	0.95	96.4	810
TBFVQ-315M1-6	90	1000	859.5	380	147.6	0.95	96.5	889
TBFVQ-315L1-6	110	1000	1050.5	380	180.8	0.95	96.3	970
TBFVQ-315L2-6	132	1000	1260.6	380	216.9	0.95	96.3	970
TBFVQ-315L3-6	160	1000	1528.0	380	263	0.95	96.3	970
TBFVQ-315S1-8	55	750	700.3	380	91.1	0.95	95.6	810
TBFVQ-315M1-8	75	750	955.0	380	124	0.95	95.7	889
TBFVQ-315L1-8	132	750	1680.8	380	218.1	0.95	95.8	970
TBFVQ-315L2-8	90	750	1146.0	380	148.8	0.95	95.7	970
TBFVQ-315L3-8	110	750	1400.7	380	181.9	0.95	95.7	970
TBFVQ-315S1-10	45	600	716.3	380	74.6	0.95	95.5	810

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBFVQ-315M1-10	55	600	875.4	380	91.1	0.95	95.6	889
TBFVQ-315L1-10	75	600	1193.8	380	124	0.95	95.7	970
TBFVQ-315L2-10	90	600	1432.5	380	148.8	0.95	95.7	970
TBFVQ-315M1-12	90	500	1719.0	380	149	0.95	93.5	889
TBFVQ-315M2-12	110	500	2101.0	380	182	0.95	93.6	889
TBFVQ-315M3-12	132	500	2521.2	380	219	0.95	93.6	889
TBFVQ-315M4-12	160	500	3056.0	380	265	0.95	95.4	889
TBFVQ-315M1-14	75	400	1790.6	380	124	0.95	92.8	889
TBFVQ-315M2-14	90	400	2148.8	380	149	0.95	93	889
TBFVQ-315M3-14	110	400	2626.3	380	182	0.95	93.2	889
TBFVQ-315M4-14	132	400	3151.5	380	219	0.95	93.2	889
TBFVQ-315M1-16	75	350	2046.4	380	124	0.95	92.8	889
TBFVQ-315M2-16	90	350	2455.7	380	149	0.95	93	889
TBFVQ-315M3-16	110	350	3001.4	380	182	0.95	93.2	889
TBFVQ-315M1-18	55	300	1750.8	380	91.5	0.95	92.5	889
TBFVQ-315M2-18	75	300	2387.5	380	124	0.95	92.8	889
TBFVQ-315M3-18	90	300	2865.0	380	149	0.95	93	889
TBFVQ-315M4-18	110	300	3501.7	380	182	0.95	93.2	889
TBFVQ-315M1-22	45	230	1868.5	380	75	0.95	91.8	889
TBFVQ-315M2-22	55	230	2283.7	380	91.5	0.95	92.1	889
TBFVQ-315M3-22	75	230	3114.1	380	124	0.95	92.4	889
TBFVQ-315M4-22	90	200	4297.5	380	149	0.95	93	889
TBFVQ-315M1-24	30	150	1910.0	380	50	0.95	90.5	889
TBFVQ-315M2-24	30	160	1790.6	380	50	0.95	90.5	889



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Powerr	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-315M3-24	37	150	2355.7	380	61.4	0.95	91	889
TBVFQ-315M4-24	37	160	2208.4	380	61.4	0.95	91	889
TBVFQ-315M5-24	37	195	1812.1	380	61.4	0.95	91.3	889
TBVFQ-315M6-24	45	150	2865.0	380	75	0.95	91.4	889
TBVFQ-315M7-24	45	160	2685.9	380	75	0.95	91.4	889
TBVFQ-315M8-24	45	195	2203.8	380	75	0.95	91.4	889
TBVFQ-315M9-24	55	160	3282.8	380	91.5	0.95	91.7	889
TBVFQ-315M10-24	55	195	2693.6	380	91.5	0.95	92.1	889
TBVFQ-315M11-24	75	170	4213.2	380	124	0.95	92	889
TBVFQ-315M12-24	75	180	3979.2	380	124	0.95	92	889
TBVFQ-315M13-24	75	190	3769.7	380	124	0.95	92	889
TBVFQ-315M1-26	18.5	100	1766.8	380	31	0.95	88.5	889
TBVFQ-315M2-26	22	100	2101.0	380	36.8	0.95	89.2	889
TBVFQ-315M3-26	22	120	1750.8	380	36.8	0.95	89.2	889
TBVFQ-315M4-26	30	100	2865.0	380	50	0.95	89.7	889
TBVFQ-315M5-26	30	120	2387.5	380	50	0.95	90.1	889
TBVFQ-315M6-26	37	100	3533.5	380	61.4	0.95	90.2	889
TBVFQ-315M7-26	37	120	2944.6	380	61.4	0.95	90.5	889
TBVFQ-315M8-26	45	100	4297.5	380	75	0.95	91.4	889
TBVFQ-315M9-26	45	110	3906.8	380	75	0.95	91.4	889
TBVFQ-315M10-26	55	130	4040.4	380	91.5	0.95	91.7	889
TBVFQ-315M11-26	55	140	3751.8	380	91.5	0.95	91.7	889
TBVFQ-315M1-28	11	65	1616.2	380	18.6	0.95	87	889
TBVFQ-315M2-28	15	65	2203.8	380	25.3	0.95	87.8	889

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-315M3-28	15	80	1790.6	380	25.3	0.95	87.8	889
TBVFQ-315M4-28	15	85	1685.3	380	25.3	0.95	87.8	889
TBVFQ-315M5-28	18.5	65	2718.1	380	31	0.95	88.5	889
TBVFQ-315M6-28	18.5	80	2208.4	380	31	0.95	88.5	889
TBVFQ-315M7-28	18.5	85	2078.5	380	31	0.95	88.5	889
TBVFQ-315M8-28	18.5	90	1963.1	380	31	0.95	88.5	889
TBVFQ-315M9-28	22	65	3232.3	380	36.8	0.95	89.2	889
TBVFQ-315M10-28	22	80	2626.3	380	36.8	0.95	89.2	889
TBVFQ-315M11-28	22	85	2471.8	380	36.8	0.95	89.2	889
TBVFQ-315M12-28	22	90	2334.4	380	36.8	0.95	89.2	889
TBVFQ-315M13-28	30	80	3581.3	380	50	0.95	89.7	889
TBVFQ-315M14-28	30	85	3370.6	380	50	0.95	89.7	889
TBVFQ-315M15-28	30	90	3183.3	380	50	0.95	89.7	889
TBVFQ-315M16-28	22	55	3820.0	380	36.8	0.95	89.2	889
TBVFQ-315M17-28	22	60	3501.7	380	36.8	0.95	89.2	889
TBVFQ-315M18-28	30	70	4092.9	380	50	0.95	89.7	889
TBVFQ-315M19-28	30	75	3820.0	380	50	0.95	89.7	889
TBVFQ-315M20-28	37	95	3719.5	380	61.4	0.95	91	889
TBVFQ-315M1-30	7.5	40	1790.6	380	12.8	0.95	86	889
TBVFQ-315M2-30	11	40	2626.3	380	18.6	0.95	87	889
TBVFQ-315M3-30	18.5	45	3926.1	380	31	0.95	88.5	889
TBVFQ-315M4-30	22	50	4202.0	380	36.8	0.95	89.2	889
TBVFQ-355M1-2	250	3000	795.8	380	410.4	0.95	97.2	1285
TBVFQ-355L1-2	315	3000	1002.8	380	516.6	0.95	97.2	1371



Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBFVQ-355L2-2	355	3000	1130.1	380	510	0.95	97.4	1371
TBFVQ-355M1-4	250	1500	1591.7	380	409.2	0.95	96.7	1285
TBFVQ-355M2-4	315	1500	2005.5	380	515	0.95	96.8	1285
TBFVQ-355L1-4	355	1500	2260.2	380	515	0.95	96.8	1371
TBFVQ-355M1-6	160	1000	1528.0	380	263	0.95	96.3	1285
TBFVQ-355M2-6	200	1000	1910.0	380	328.4	0.95	96.4	1285
TBFVQ-355M3-6	250	1000	2387.5	380	410.4	0.95	96.4	1285
TBFVQ-355L1-6	315	1000	3008.3	380	458	0.95	97	1371
TBFVQ-355L2-6	355	1000	3390.3	380	516	0.95	97	1371
TBFVQ-355M1-8	132	750	1680.8	380	218.1	0.95	95.8	1285
TBFVQ-355L1-8	160	750	2037.3	380	264.3	0.95	95.8	1371
TBFVQ-355L2-8	200	750	2546.7	380	330.4	0.95	95.8	1371
TBFVQ-355L3-8	250	750	3183.3	380	407	0.95	96	1371
TBFVQ-355M1-10	110	600	1750.8	380	181.9	0.95	95.7	1285
TBFVQ-355L1-10	132	600	2101.0	380	218.1	0.95	95.8	1371
TBFVQ-355L2-10	160	600	2546.7	380	264.3	0.95	95.8	1371
TBFVQ-355M1-12	185	500	3533.5	380	305	0.95	95.4	1285
TBFVQ-355M2-12	250	500	4775.0	380	415	0.95	93.7	1285
TBFVQ-355M1-14	160	400	3820.0	380	265	0.95	94.9	1285
TBFVQ-355M2-14	185	400	4416.9	380	305	0.95	94.9	1285
TBFVQ-355M3-14	200	400	4775.0	380	332	0.95	93.5	1285
TBFVQ-355M1-16	132	350	3601.7	380	219	0.95	93.2	1285
TBFVQ-355M2-16	160	350	4365.7	380	265	0.95	94.9	1285
TBFVQ-355M1-18	110	300	3501.7	380	182	0.95	93.2	1285

Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBFVQ-355M2-18	132	300	4202.0	380	219	0.95	93.2	1285
TBFVQ-355M1-22	90	200	4297.5	380	149	0.95	92.7	1285
TBFVQ-355M2-22	90	210	4092.9	380	149	0.95	92.7	1285
TBFVQ-355M3-22	90	230	3737.0	380	149	0.95	92.7	1285
TBFVQ-355M4-22	110	220	4775.0	380	182	0.95	92.9	1285
TBFVQ-355M5-22	110	230	4567.4	380	182	0.95	92.9	1285
TBFVQ-355M1-24	55	150	3501.7	380	91.5	0.95	91.7	1285
TBFVQ-355M2-24	75	150	4775.0	380	124	0.95	92	1285
TBFVQ-355M3-24	75	160	4476.6	380	124	0.95	92	1285
TBFVQ-355M4-24	75	170	4213.2	380	124	0.95	92.4	1285
TBFVQ-355M5-24	75	195	3673.1	380	124	0.95	92.4	1285
TBFVQ-355M6-24	90	180	4775.0	380	124	0.95	92.7	1285
TBFVQ-355M7-24	90	190	4523.7	380	149	0.95	92.7	1285
TBFVQ-355M8-24	90	195	4407.7	380	149	0.95	92.7	1285
TBFVQ-355M1-26	37	100	3533.5	380	61.4	0.95	90.2	1285
TBFVQ-355M2-26	45	100	4297.5	380	75	0.95	90.7	1285
TBFVQ-355M3-26	45	105	4092.9	380	75	0.95	90.7	1285
TBFVQ-355M5-26	45	120	3581.3	380	75	0.95	91	1285
TBFVQ-355M6-26	55	110	4775.0	380	91.5	0.95	91.3	1285
TBFVQ-355M7-26	55	120	4377.1	380	91.5	0.95	91.3	1285
TBFVQ-355M8-26	55	130	4040.4	380	91.5	0.95	91.3	1285
TBFVQ-355M9-26	55	140	3751.8	380	91.5	0.95	91.3	1285
TBFVQ-355M1-28	30	65	4407.7	380	50	0.95	89.7	1285
TBFVQ-355M2-28	30	80	3581.3	380	50	0.95	89.7	1285



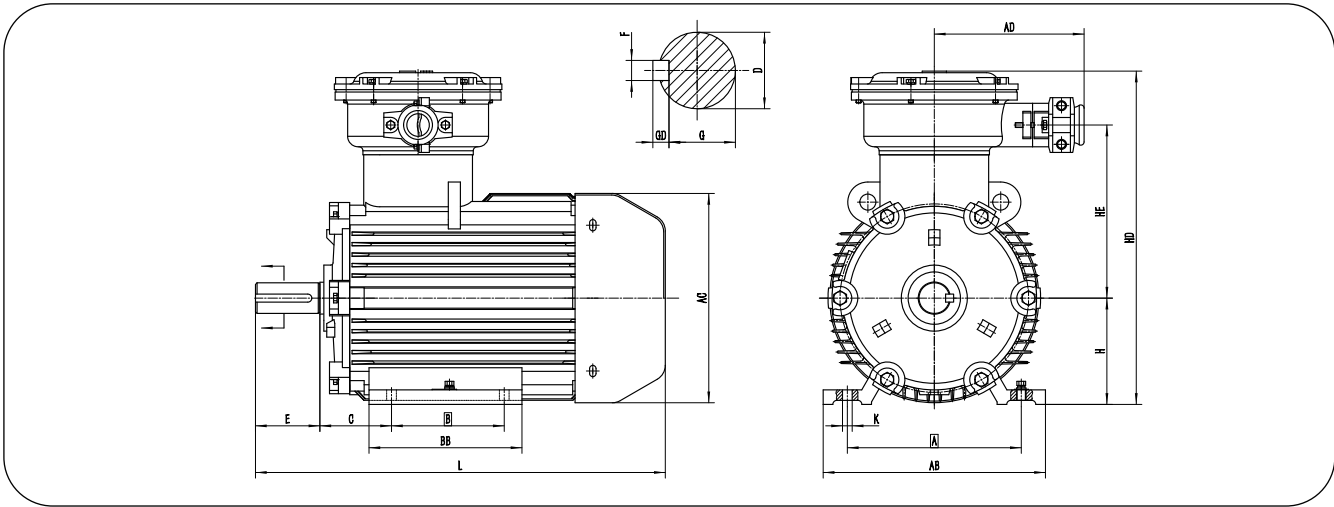
Product Parameters

TBVFX Series Mining Flameproof Permanent Magnet Synchronous Variable Frequency Motor Model Range								
Motor Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Power Factor	Efficiency	Net Weight
	Kw	rpm	Nm	V	Arms		%	kg
TBVFQ-355M3-28	37	80	4416.9	380	61.4	0.95	90.2	1285
TBVFQ-355M4-28	37	85	4157.1	380	61.4	0.95	90.2	1285
TBVFQ-355M5-28	37	90	3926.1	380	61.4	0.95	90.2	1285
TBVFQ-355M6-28	45	90	4775.0	380	75	0.95	90.7	1285
TBVFQ-355M7-28	22	55	3820.0	380	36.8	0.95	89.2	1285
TBVFQ-355M8-28	30	60	4775.0	380	50	0.95	89.7	1285
TBVFQ-355M9-28	30	65	4407.7	380	50	0.95	89.7	1285
TBVFQ-355M10-28	30	70	4092.9	380	50	0.95	89.7	1285
TBVFQ-355M11-28	37	75	4711.3	380	61.4	0.95	90.2	1285
TBVFQ-355M12-28	45	95	4523.7	380	75	0.95	90.7	1285
TBVFQ-355M1-30	15	40	3581.3	380	25.3	0.95	87.8	1285
TBVFQ-355M2-30	18.5	40	4416.9	380	31	0.95	88.5	1285
TBVFQ-355M3-30	18.5	45	3926.1	380	31	0.95	88.5	1285
TBVFQ-355M4-30	22	50	4202.0	380	36.8	0.95	89.2	1285

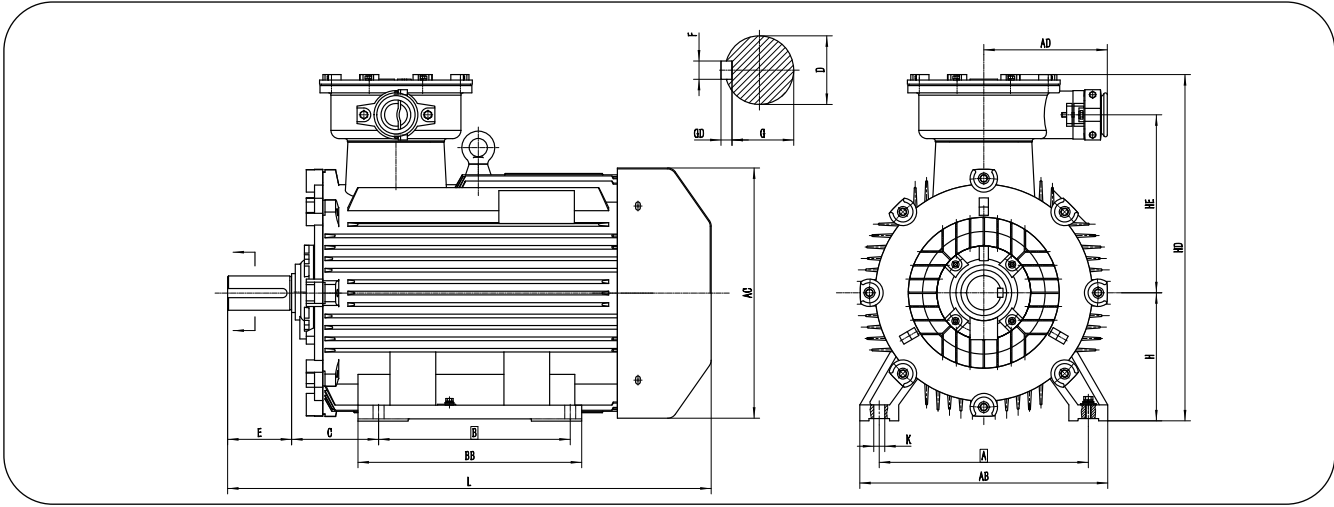
Installation Method

Motor Model	Basic mounting structure			Derived Mounting Configurations								
				IMB5 Type			IMB3 Type				IMB35 Type	
	IMB3	IMB35	IMB5	IMV1	IMV3	IMV5	IMV6	IMB6	IMB7	IMB8	IMV15	IMV36
TBVFQ 90-160	√	√	√	√	√	/	/	/	/	/	/	/
TBVFQ 180-280	√	√	√	√	/	/	/	/	/	/	/	/
TBVFQ 315-355	√	√	/	√	/	/	/	/	/	/	/	/

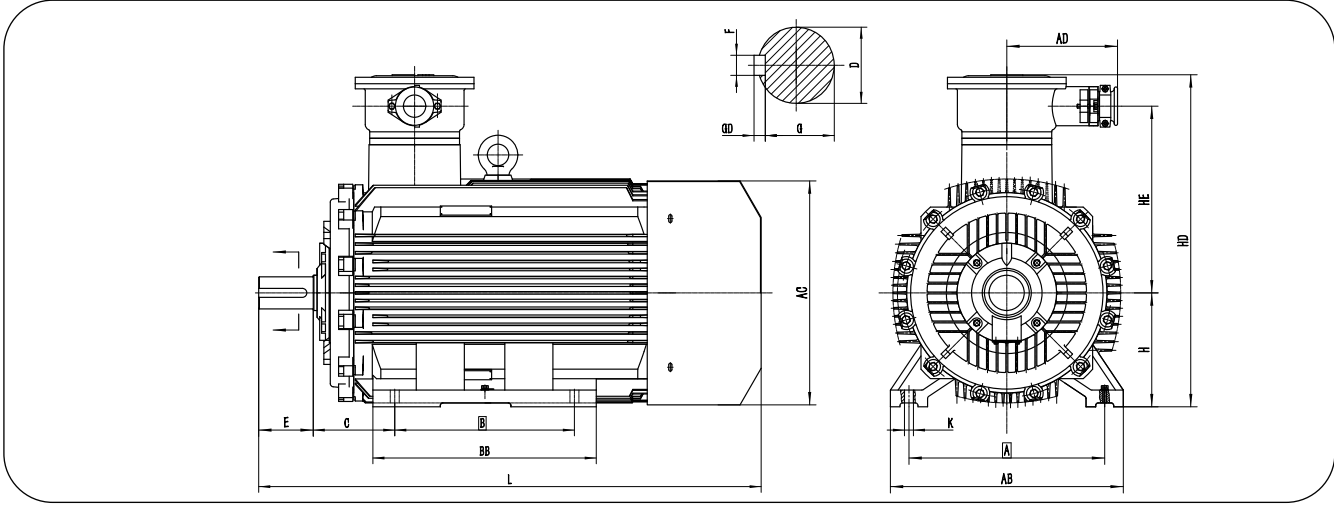
Outline Drawing (for frame with feet, end shield without flange)



90-132 frame size outline drawing



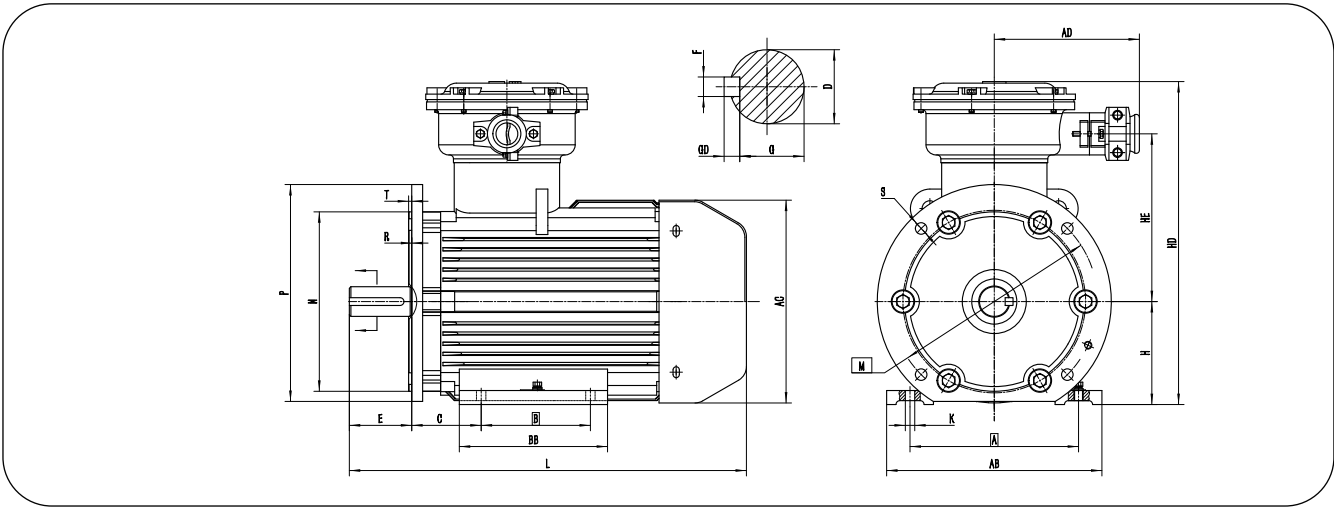
160-280 frame size outline drawing



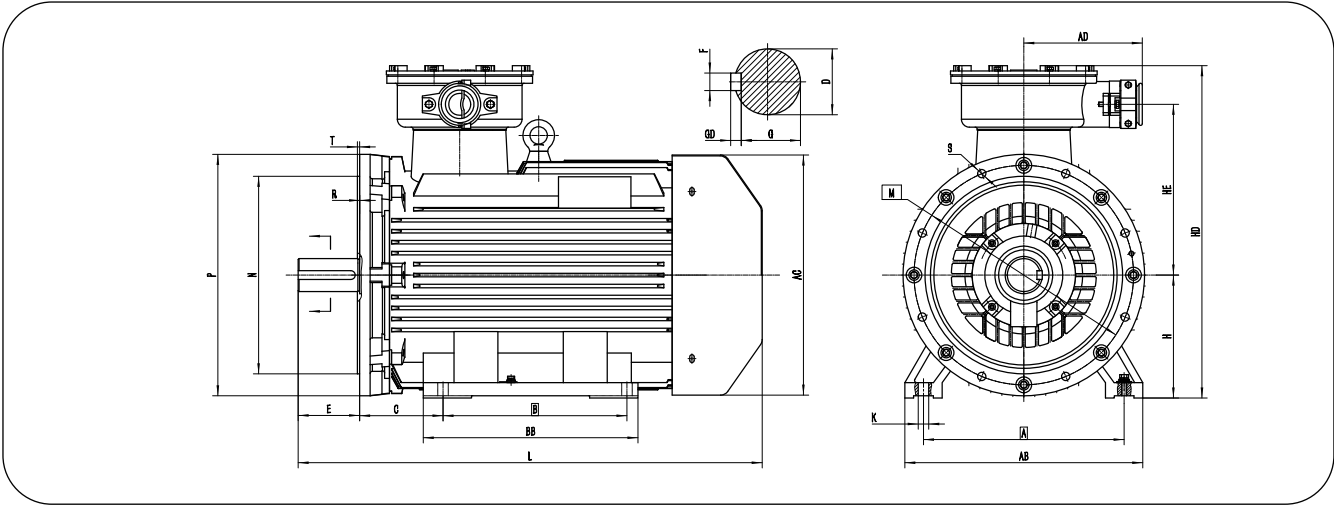
315-355 frame size outline drawing



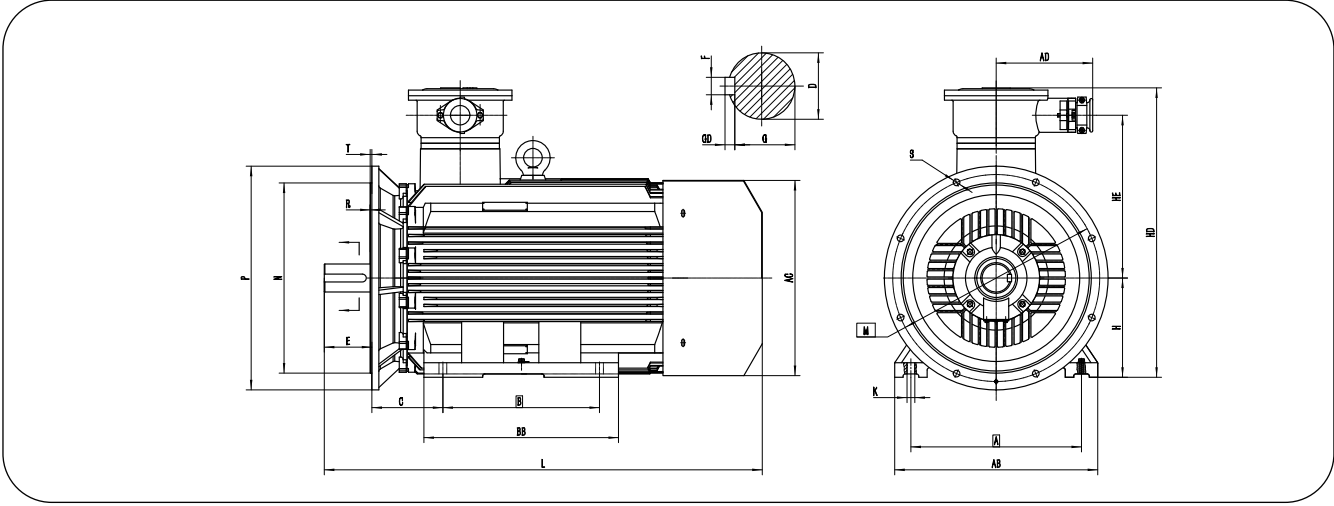
Outline Drawing (for frame with feet, end shield with flange and through holes)



90-132 frame size outline drawing

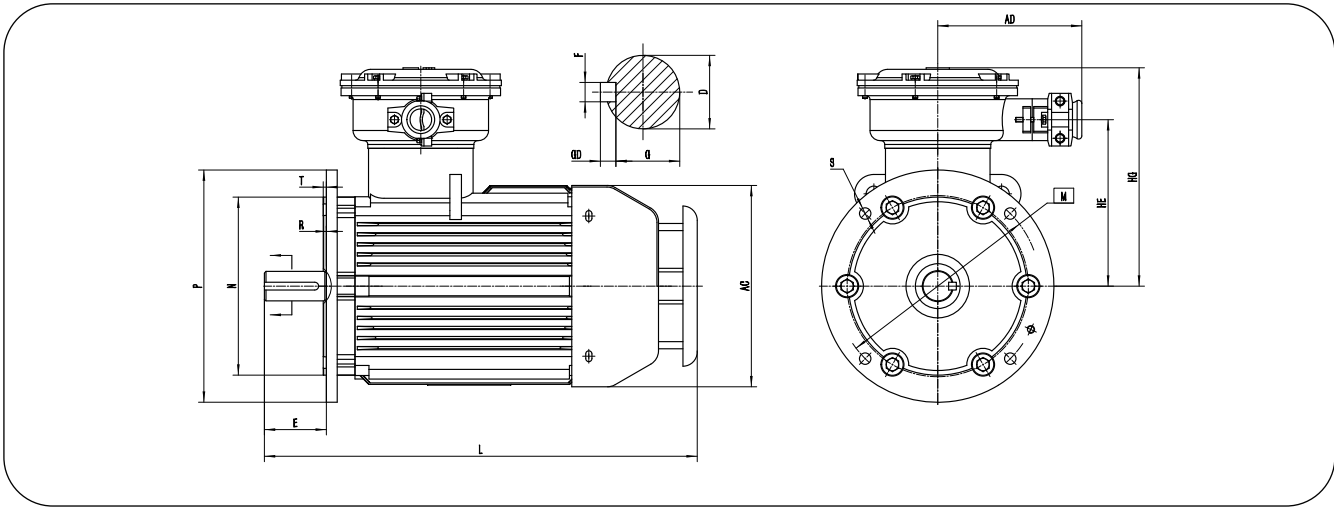


160-280 frame size outline drawing

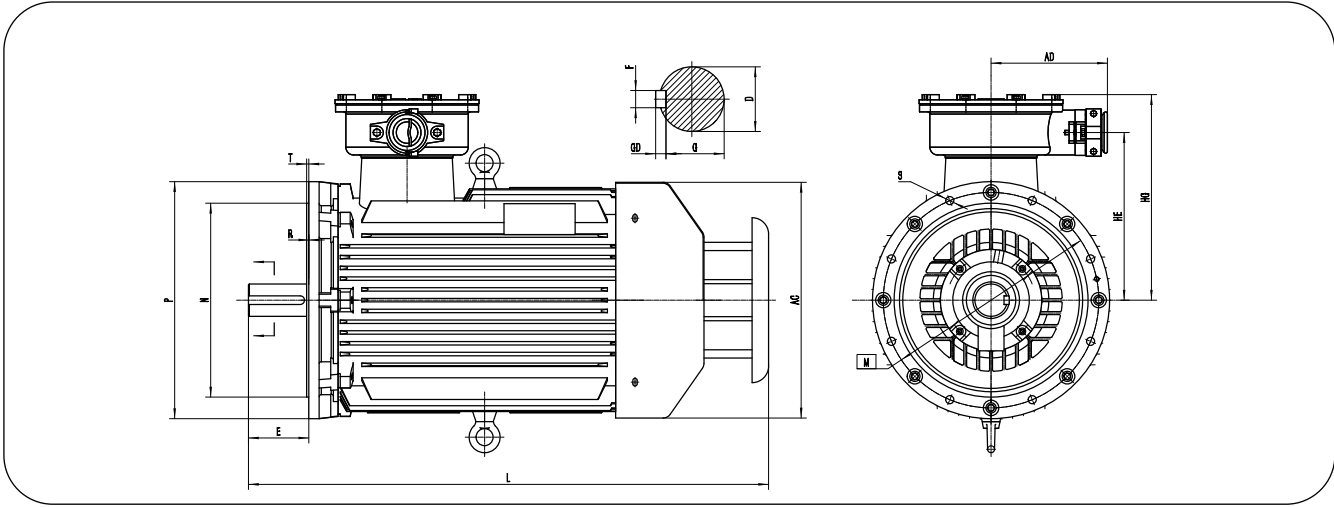


315-355 frame size outline drawing

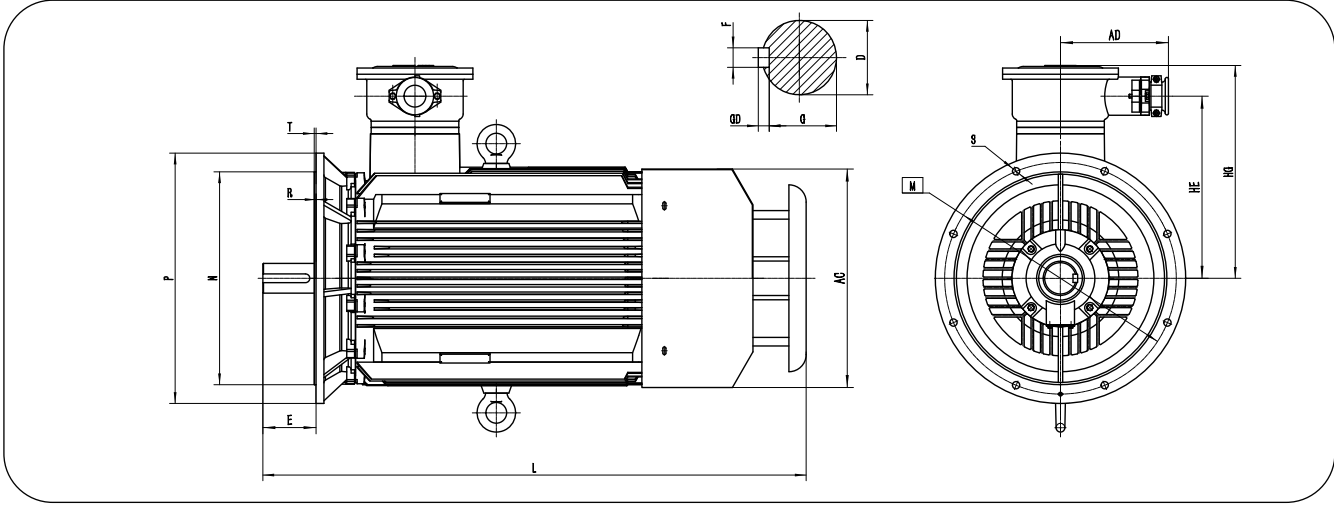
Outline Drawing (for horizontal or vertical mounting, frame without feet, end shield with flange and through holes)



90-132 frame size outline drawing



160-280 frame size outline drawing



315-355 frame size outline drawing



Overall dimensions & mounting tolerances (for frame with feet, end shield without flange)

Overall Dimensions									Mounting Tolerances																
Motor Model	AB	AC	AD	BB	HD	HE	L IC411	L IC416	A Basic Dimensions	B Basic Dimension	C Basic Dimension	C Limit Deviations	D Basic Dimension	D Limit Deviations	E Basic Dimension	E Limit Deviations	F Basic Dimension	F Limit Deviations	G Basic Dimension	G Limit Deviations	GD Basic Dimension	H Basic Dimension	H Limit Deviations	K Basic Dimension	K Limit Deviations
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
TBVFQ 90S	180	181	170	130	320	170	366	491	140	100	56	±1.5	24	+0.009 -0.004	50		8	0 -0.036	20		7	90		10	+0.36 0
TBVFQ 90L	180	181	170	155	320	170	391	516	140	125	56		24		50		8		20		7	90		10	
TBVFQ 100L	200	203	170	176	340	185	443	603	160	140	63	±2.0	28		60	8	24		7	100	12	0 -0.5	+0.43 0		
TBVFQ 112M	240	221	185	180	365	185	507	671	190	140	70		28	60	8	24	7	112	12						
TBVFQ 132S	280	260	185	190	415	215	509	667	216	140	89		38	80	10	33	8	132	12						
TBVFQ 132M	280	260	185	230	415	215	549	707	216	178	89	38	80	±0.3	10	33	8	132	12						
TBVFQ 160M	330	315	200	258	490	260	679	810	254	210	108	±3.0	42	+0.018 +0.002	110	12	37	8	160	0 -0.2	+0.52 0				
TBVFQ 160L	330	315	200	302	490	260	709	840	254	254	108		42		110	12	37	8	160					14.5	
TBVFQ 180M	355	356	200	311	530	280	762	887	279	241	121		48		110	14	42.5	9	180			14.5			
TBVFQ 180L	355	356	200	349	530	280	782	907	279	279	121	48	110	14	42.5	9	180	14.5							
TBVFQ 200L	390	396	235	366	580	310	831	941	318	305	133		55		110	16	49	10	200	18.5	0 -0.2	+0.52 0			
TBVFQ 225S	435	446	235	355	630	332	872	1006	356	286	149		60	+0.030 +0.011	140	±0.5	18	53	11	225			18.5		
TBVFQ 225M	435	446	235	380	630	332	902	1036	356	311	149	60	140		18		53	11	225	18.5					
TBVFQ 250M	490	495	275	420	700	360	951	1111	406	349	168	65	140		18		58	11	250	24					
TBVFQ 280S	542	547	275	438	760	390	1002	1187	457	368	190	±4.0	75		140	±0.5	20	0 -0.052	67.5	0 -1.0			24		
TBVFQ 280M	542	547	275	489	760	390	1057	1242	457	419	190		75		140		20		67.5				12	280	24
TBVFQ 315S	628	620	345	550	903	490	1266	1425	508	406	216		80		170		22		71				14	315	28
TBVFQ 315M	628	620	345	680	903	490	1386	1545	508	457	216		80		170	22	71	14	315				28		
TBVFQ 315L	628	620	345	680	903	490	1386	1545	508	508	216		80		170	22	71	14	315		28				
TBVFQ 355M	726	698	345	696	1035	585	1566	1756	610	560	254		95	+0.035 +0.013	170		25	86	14	355		28			
TBVFQ 355L	726	698	345	766	1035	585	1676	1866	610	630	254		95		170		25	86	14	355		28			



Overall dimensions & mounting tolerances (for frame with feet, end shield with flange and through holes)

Overall Dimensions									Mounting Tolerances																											
Motor Model	AB	AC	AD	BB	HD	HE	L IC411	L IC416	A Basic Dimensions	B Basic Dimensions	C Basic Dimensions	C Limit Deviations	D Basic Dimensions	D Limit Deviations	E Basic Dimensions	E Limit Deviations	F Basic Dimensions	F Limit Deviations	G Basic Dimensions	G Limit Deviations	GD Basic Dimensions	H Basic Dimensions	H Limit Deviations	K Basic Dimensions	K Limit Deviations	M Basic Dimensions	N Basic Dimensions	N Limit Deviations	P Basic Dimensions	R Basic Dimensions	R Limit Deviations	S Basic Dimensions	S Limit Deviations	T Basic Dimensions	T Limit Deviations	Number Of Flange Holes
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
TBVFQ 90S	180	181	170	130	320	170	366	491	140	100	56	±1.5	24	+0.009 -0.004	50		8		20		7	90		10	+0.36 0	165	130	+0.014 -0.011	200	0	±1.5	12	+0.43 0	3.5		4
TBVFQ 90L	180	181	170	155	320	170	391	516	140	125	56		24		50		8		20		7	90		10		165	130		200	0		12		3.5		4
TBVFQ 100L	200	203	170	176	340	185	443	603	160	140	63	±2.0	28		60		8	0 -0.36	24		7	100		12		215	180		250	0	±2.0	15	+0.43 0	4		4
TBVFQ 112M	240	221	185	180	365	185	507	671	190	140	70		28		60		8		24		7	112		12		215	180		250	0		15		4		4
TBVFQ 132S	280	260	185	190	415	215	509	667	216	140	89	±3.0	38		80	±0.3	10		33		8	132		12	+0.43 0	265	230		300	0	±3.0	15		4		4
TBVFQ 132M	280	260	185	230	415	215	549	707	216	178	89		38		80		10		33		8	132		12		265	230		300	0		15		4		4
TBVFQ 160M	330	315	200	258	490	260	679	810	254	210	108	±4.0	42	+0.018 -0.002	110		12		37		8	160	0 -0.5	14.5	+0.016 -0.013	300	250	+0.016 -0.013	350	0	±3.0	19		5	0 -0.120	4
TBVFQ 160L	330	315	200	302	490	260	709	840	254	254	108		42		110		12		37		8	160		14.5		300	250		350	0		19		5		4
TBVFQ 180M	355	356	200	311	530	280	762	887	279	241	121	±3.0	48		110		14	0 -0.43	42.5	0 -0.20	9	180		14.5		300	250		350	0	±3.0	19		5		4
TBVFQ 180L	355	356	200	349	530	280	782	907	279	279	121		48		110		14		42.5		9	180		14.5		300	250		350	0		19		5		4
TBVFQ 200L	390	396	235	366	580	310	831	941	318	305	133	±4.0	55		110		16		49		10	200		18.5	+0.43 0	350	300	±0.016 ±0.018	400	0	±4.0	19	+0.52 0	5		4
TBVFQ 225S	435	446	235	355	630	332	872	1006	356	286	149		60		140		18		53		11	225		18.5		400	350		450	0		19		5		8
TBVFQ 225M	435	446	235	380	630	332	902	1036	356	311	149	±4.0	60		140		18		53		11	225		18.5		400	350		450	0	±4.0	19		5		8
TBVFQ 250M	490	495	275	420	700	360	951	1111	406	349	168		65		140		18		58		11	250		24		500	450		550	0		19		5		8
TBVFQ 280S	542	547	275	438	760	390	1002	1187	457	368	190	±4.0	75	+0.030 -0.011	140	±0.5	20		67.5		12	280		24	+0.52 0	500	450	±0.020 ±0.022	550	0	±4.0	19		5		8
TBVFQ 280M	542	547	275	489	760	390	1057	1242	457	419	190		75		140		20		67.5		12	280		24		500	450		550	0		19		5		8
TBVFQ 315S	628	620	345	550	903	490	1266	1425	508	406	216	±4.0	80		170	±0.5	22	0 -0.52	71		14	315	0 -1.0	28		600	550		660	0	±4.0	24		6		8
TBVFQ 315M	628	620	345	680	903	490	1386	1545	508	457	216		80		170		22		71		14	315		28		600	550		660	0		24		6		8
TBVFQ 315L	628	620	345	680	903	490	1386	1545	508	508	216	±4.0	80		170		22		71		14	315		28		600	550		660	0	±4.0	24		6	0 -0.15	8
TBVFQ 355M	726	698	345	696	1035	585	1566	1756	610	560	254		95		+0.035 -0.013		170		25			86				14	355			28				740		680
TBVFQ 355L	726	698	345	766	1035	585	1676	1866	610	630	254	95	170	25		86	14	355	28	740		680	800		0	24	6	8								



Overall dimensions & mounting tolerances (for frame with feet, end shield with flange and through holes)

Overall Dimensions							Mounting Tolerances																			
Motor Model	AC	AD	HE	HG	L IC411	L IC416	D Basic Dimensions	D Limit Deviations	E Basic Dimensions	E Limit Deviations	F Basic Dimensions	F Limit Deviations	G Basic Dimensions	G Limit Deviations	GD Basic Dimensions	M	N Basic Dimensions	N Limit Deviations	P	R Basic Dimensions	R Limit Deviations	S Basic Dimensions	S Limit Deviations	T Basic Dimensions	T Limit Deviations	Number Of Flange Holes
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
TBVFQ 90S	181	170	170	320	366	491	24	+0.009 -0.004	50	±0.3	8	0 -0.36	20	0 -0.20	7	165	130	+0.014 -0.011	200	0	±1.5	12	+0.43 0	3.5	0 -0.120	4
TBVFQ 90L	181	170	170	320	391	516	24		50		8		20		7	165	130		200	0		12		3.5		4
TBVFQ 100L	203	170	185	340	443	603	28		60		8		24		7	215	180		250	0	±2.0	15		4		4
TBVFQ 112M	221	185	185	365	507	671	28		60		8		24		7	215	180		250	0		15		4		4
TBVFQ 132S	260	185	215	415	509	667	38	+0.018 -0.002	80	±0.5	10	0 -0.43	33	0 -0.20	8	265	230	+0.016 -0.013	300	0	±3.0	15	+0.52 0	4	0 -0.15	4
TBVFQ 132M	260	185	215	415	549	707	38		80		10		33		8	265	230		300	0		15		4		4
TBVFQ 160M	315	200	260	490	679	810	42		110		12		37		8	300	250	±0.016 -0.013	350	0	±4.0	19		5		4
TBVFQ 160L	315	200	260	490	709	840	42		110		12		37		8	300	250		350	0		19		5		4
TBVFQ 180M	356	200	280	530	762	887	48	+0.030 -0.011	110	±0.5	14	0 -0.52	42.5	0 -0.20	9	300	250	±0.020	350	0	±4.0	19	+0.52 0	5	0 -0.15	4
TBVFQ 180L	356	200	280	530	782	907	48		110		14		42.5		9	300	250		350	0		19		5		4
TBVFQ 200L	396	235	310	580	831	941	55		110		16		49		10	350	300	±0.016 -0.013	400	0		19		5		4
TBVFQ 225S	446	235	332	630	872	1006	60		140	±0.5	18	0 -0.52	53	0 -0.20	11	400	350		450	0		19		5		8
TBVFQ 225M	446	235	332	630	902	1036	60	+0.035 -0.013	140		18		53		11	400	350	±0.018	450	0	±4.0	19		5		8
TBVFQ 250M	495	275	360	700	951	1111	65		140		18		58		11	500	450		550	0		19		5		8
TBVFQ 280S	547	275	390	760	1002	1187	75		140		20		67.5		12	500	450	±0.020	550	0		19		5		8
TBVFQ 280M	547	275	390	760	1057	1242	75	+0.035 -0.013	140	±0.5	20	0 -0.52	67.5	0 -0.20	12	500	450		550	0	±4.0	19	+0.52 0	5	0 -0.15	8
TBVFQ 315S	620	345	490	903	1266	1425	80		170		22		71		14	600	550	±0.022	660	0		24		6		8
TBVFQ 315M	620	345	490	903	1386	1545	80		170		22		71		14	600	550		660	0		24		6		8
TBVFQ 315L	620	345	490	903	1386	1545	80		170		22		71		14	600	550	±0.025	660	0		24		6		8
TBVFQ 355M	698	345	585	1035	1566	1756	95		170		25		86		14	740	680		800	0		24		6		8
TBVFQ 355L	698	345	585	1035	1676	1866	95		170		25		86		14	740	680		800	0		24		6		8