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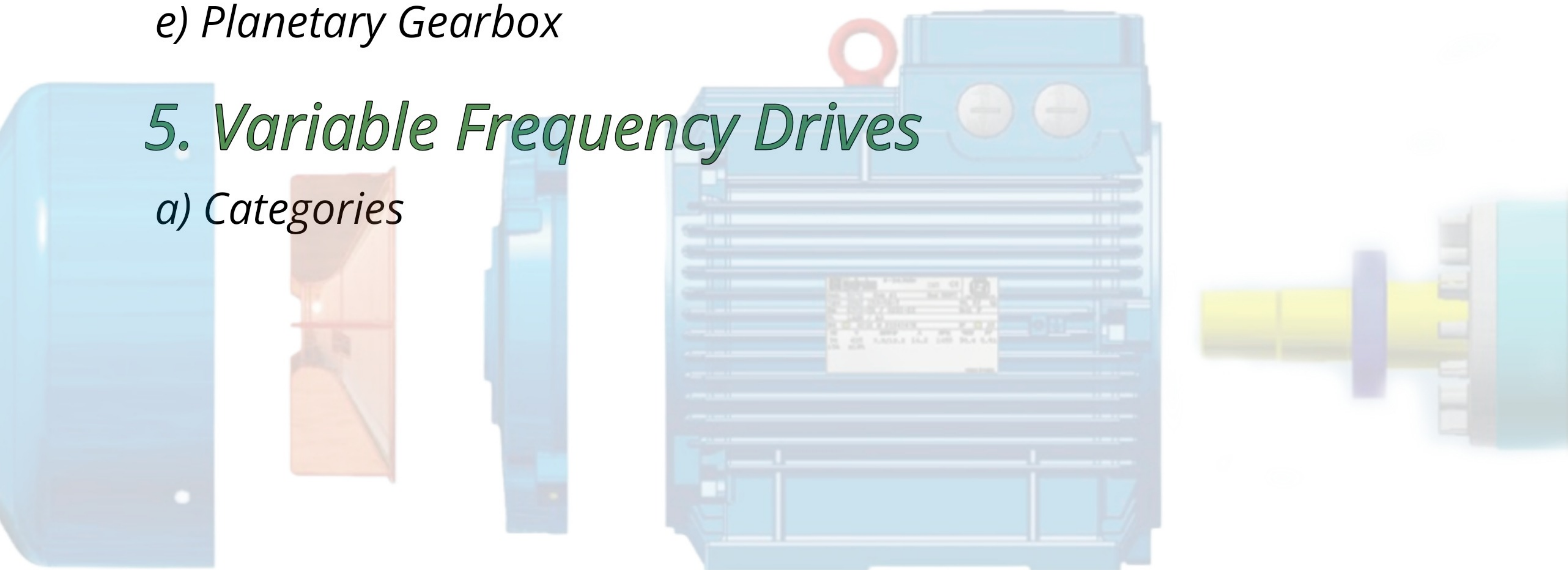
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Welcome to Tau ,

A trusted name in the world of industrial solutions. We specialize in the manufacturing of high-performance induction motors, offering both three-phase and single-phase options. Our motors are engineered to operate seamlessly at different voltage ratings such as 415V and 220V, and are available in both 50Hz and 60Hz frequency configurations to meet diverse global standards.

In addition to motors, we provide a wide range of precision-engineered gearboxes including NMRV type, NU type, cycloidal type, and robust helical gearboxes. These gearboxes are designed for durability, energy efficiency, and smooth transmission of power across various industrial applications.

We also offer cutting-edge Variable Frequency Drives (VFDs) across multiple categories such as general-purpose drives, HVAC drives, and heavy-duty vector control drives. Our VFDs ensure optimal motor performance, energy savings, and better process control.

At the core of our operations is a strong commitment to building trust, credibility, and long-term partnerships with our customers. We aim to deliver top-quality products while ensuring affordability, so businesses of all sizes can access reliable and efficient solutions.

Our mission is to continuously innovate and provide technically sound, cost-effective solutions that empower industries to thrive in an increasingly competitive environment. With a focus on quality, service, and value, we strive to be your preferred partner in power transmission and motor control solutions.

Let us help you move your business forward — with strength, reliability, and precision.

Three Phase Induction Motors

A 3-phase induction motor is a robust and efficient electric motor commonly used in industrial and commercial applications. Available in IE1 (Standard Efficiency) and IE2 (High Efficiency) classes, these motors help reduce energy costs while delivering reliable performance.

They come in various mounting options such as foot-mounted (B3), flange-mounted (B5), and face-mounted (B14), allowing easy integration into different systems. With their durability and low maintenance, 3-phase induction motors are ideal for powering pumps, conveyors, fans, and more.

IE2 High Efficiency Motors

Frames	: 63 to 180L
Rating (kW)	: 0.12 to 22.0 kW
Poles	: 2, 4, 6, 8
Mountings	: B3, B5, B14 & combinations
Protection	: IP55
Enclosure	: TEFC



Foot Mounted Motors



Flange Mounted Motors



Face Mounted Motors



Foot-cum-Flange Mounted Motors



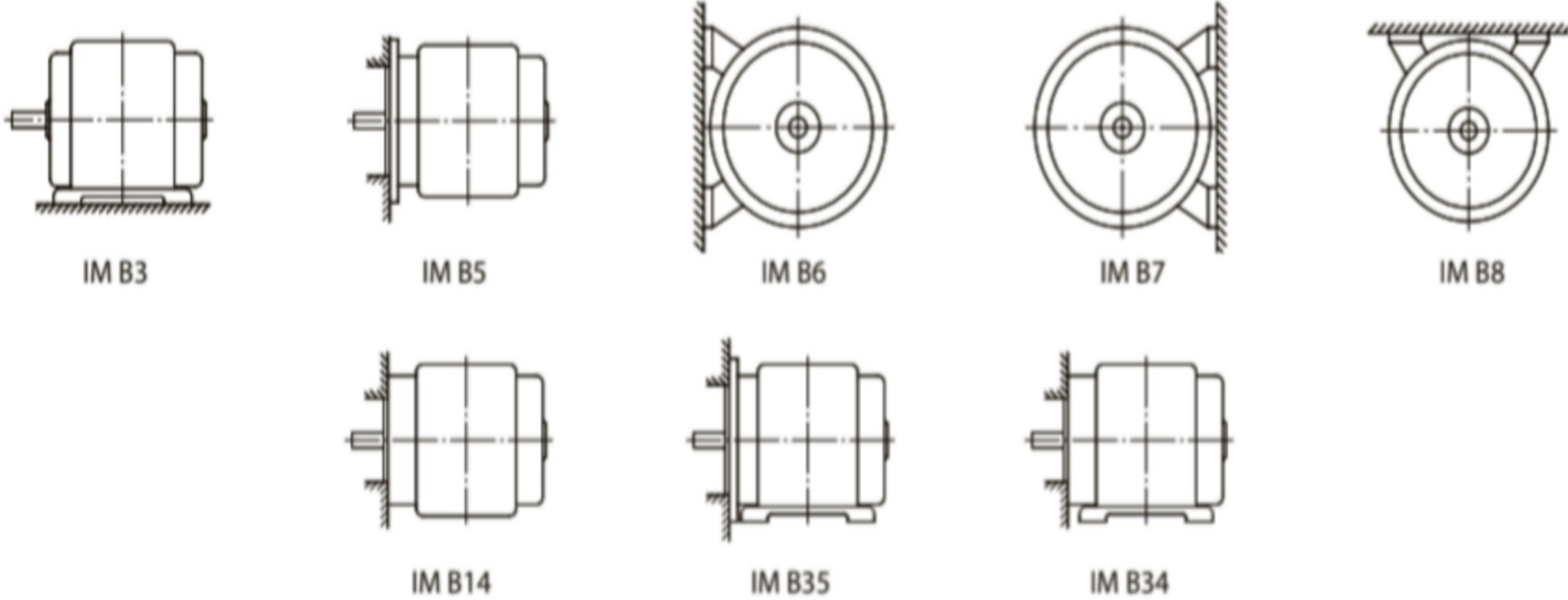
AC Brake Motors



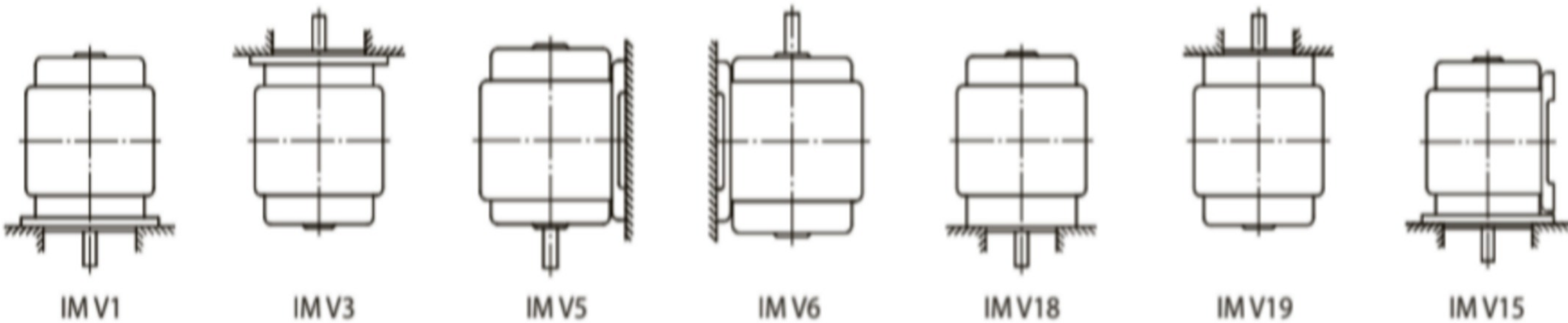
DC Brake Motors
(Mechanical Brake)

Mounting Position

HORIZONTAL MOUNTING



VERTICAL MOUNTING



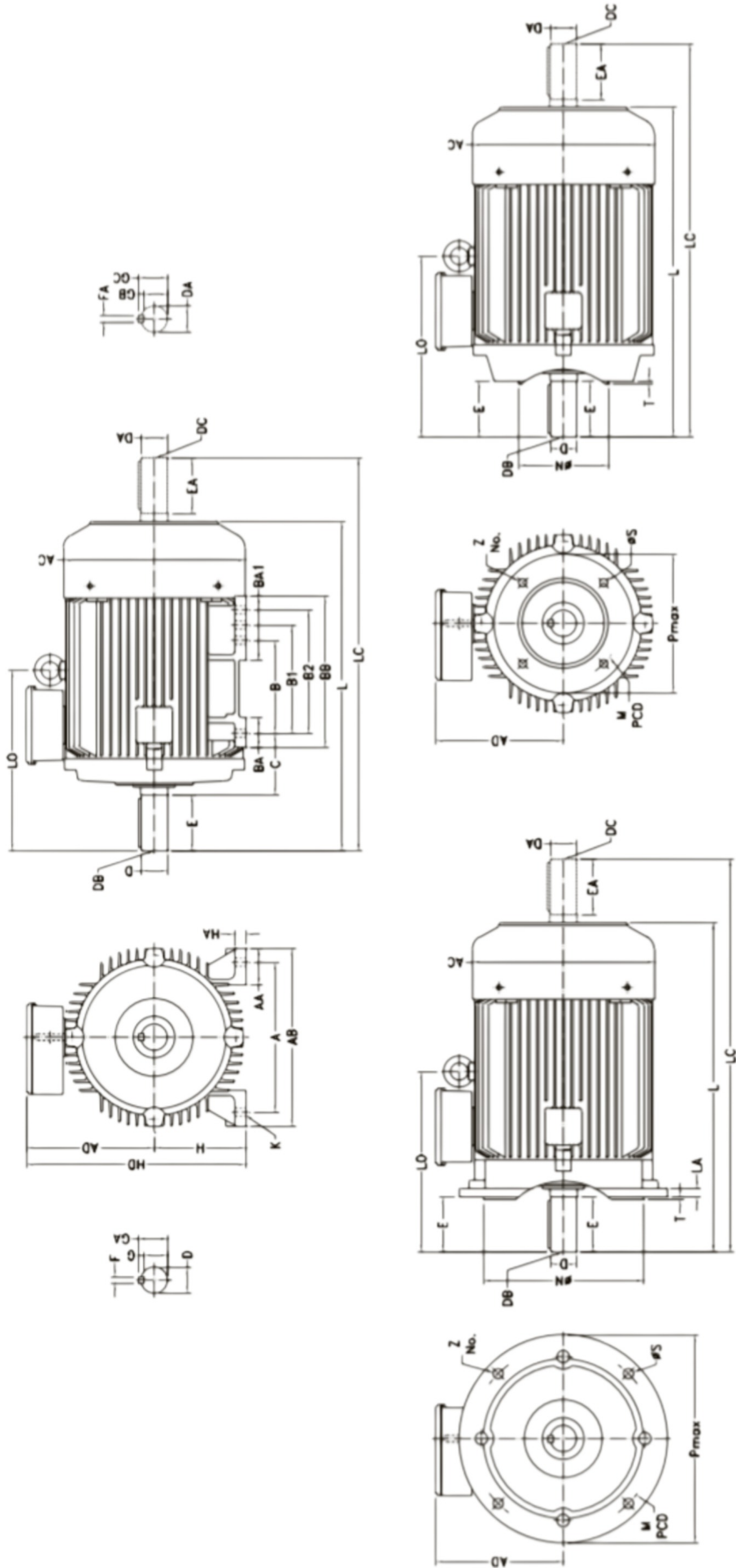
Terminal Box Dimensions

Frame Size	Cable Entry size		Max. Cable Size DOL starting	Max. Cable Size Star-Delta starting	Terminal Stud size
	Safe Area	Hazardous Area			
63-90	1 x 3/4" BSC	1 x M20x1.5P	3C x 4mm ²	-	M4
100-132	2 x 1" BSC	2 x M25x1.5P	3C x 10mm ²	2 x 3C x 10mm ²	M5
160-180	2 x 1" BSC	2 x M25x1.5P	3C x 35mm ²	2 x 3C x 25mm ²	M6

[illegible]

Note: 1) Suffix "X^m" denotes motors other than 2 pole motors.

Mechanical Dimensions



Spares

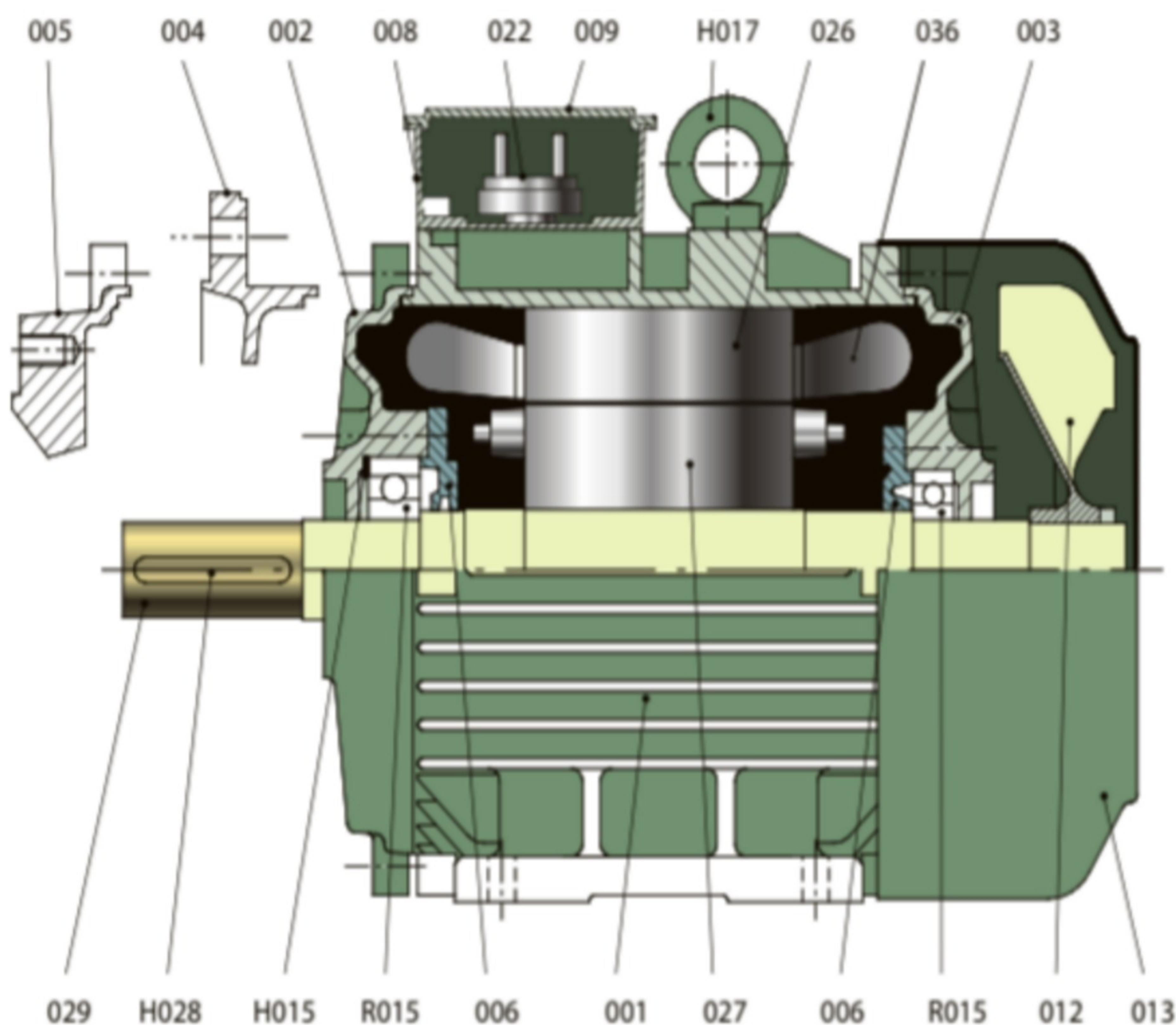


Table of Components

005 - Endshield DE B14	H017 - Eye bolt	H015 - Wavy washer	R015 - Bearing NDE
004 - Endshield DE B5	026 - Stator packet	R015 - Bearing DE	012 - Fan
002 - Endshield DE B3	036 - Stator winding	006 - Bearing cover DE	013 - Fan cover
008 - Terminal box	003 - Endshield NDE	001 - Stator body	
022 - Terminal block	029 - Shaft	027 - Rotor packet	
009 - Terminal box cover	H028 - Shaft key	006 - Bearing cover NDE	

Single Phase Motors

A single-phase induction motor is one of the most commonly used types of electric motors in household and light industrial applications. It operates on a single-phase alternating current (AC) power supply and converts electrical energy into mechanical energy. These motors are simple in construction, reliable, and cost-effective, making them ideal for devices like fans, pumps, washing machines, and small tools. Unlike three-phase motors, single-phase induction motors are not self-starting and typically require additional starting mechanisms such as capacitors or auxiliary windings. Despite this, their widespread availability and ease of use make them a popular choice for low-power applications.

Single Phase Motors

Frames	: 63 to 132M
Rating (kW)	: 0.12 to 3.72 kW
Poles	: 2, 4, 6
Mountings	: B3, B5, B14 & combinations
Protection	: IP55
Enclosure	: TEFC



Aluminum Series Motors

Aluminium Series Motors – Reliable, Efficient, and Versatile

Tau's Aluminium Series Motors are available in both Three Phase and Single Phase versions, with power ratings up to 5 HP. Built with a lightweight yet durable aluminium body, these motors offer excellent thermal performance and corrosion resistance.

We offer all standard mounting options—Foot (B3), Face (B14), Flange (B5), Foot Cum Face (B34), Foot Cum Flange (B35)—along with custom mounting solutions to meet specific application needs.

Key Advantages:

- High efficiency and low noise*
- Smooth performance with high starting torque*
- Suitable for a wide range of industrial uses*
- Built to ISI standards for quality and safety*

Tau Aluminium Motors are engineered for performance and flexibility—ideal for packaging, automation, machine tools, and more.



Gearbox

Gearbox Solutions for Every Industrial Need

We offer a comprehensive range of robust and efficient gearboxes engineered to meet diverse industrial requirements. Our product portfolio includes:

Worm Gearboxes – Compact, cost-effective, and ideal for high torque, low-speed applications.

Helical Gearboxes – Known for smooth operation, high load capacity, and energy efficiency.

Cycloidal Gearboxes – Designed for precision, shock load resistance, and long service life.

Each gearbox is crafted to deliver reliability, durability, and optimal performance across various industrial environments.



Worm Gearbox



Cycloidal Gearbox



Helical Gearbox

Variable Frequency Drives

Variable Frequency Drives (VFDs) –

Upgrade your motor control with our high-performance Variable Frequency Drives (VFDs), engineered to deliver precise speed control, energy savings, and extended motor life. Suitable for a wide range of industrial applications, our VFDs are compatible with motors ranging from 1HP to 30HP.

Key Features:

- 1) Wide Power Range: Supports motors from 1HP up to 30HP, ideal for light-duty to heavy-duty applications.*
- 2) Energy Efficiency: Reduce power consumption by adjusting motor speed to match actual load demand – leading to significant energy savings.*
- 3) Smooth Start/Stop: Minimize mechanical stress on motors and connected machinery with controlled acceleration and deceleration.*
- 4) Built-in Protection: Includes overload, overvoltage, undervoltage, and short-circuit protection to ensure safe and reliable operation.*
- 5) User-Friendly Interface: Intuitive control panel for easy setup, monitoring, and parameter adjustment.*
- 6) Advanced Control Options: Supports multiple control modes including V/F, sensorless vector control, and torque control for precise motor performance.*
- 7) Compact Design: Space-saving, wall-mountable models that fit easily into your control panels or machinery.*

Applications: Ideal for use in pumps, fans, conveyors, mixers, HVAC systems, and a wide range of industrial machinery where speed and torque control are essential.

Take control of your motors with confidence and efficiency—invest in our VFD solutions to enhance productivity, reduce maintenance, and optimize performance.





Our Office: Amay Automations
Ramol Toll Plaza,
Shed no. 73/1,
Parishikhar Ind.
Estate,Nr, Ahmedabad,
Gujarat 382418

Contact us: +917990998834
+919925750427
Email Us On: info@tauengineers.in