

Global Variable Frequency Drive (VFD) Market By Product Type (AC Drives, DC Drives and Servo Drives) By Power Range (Low, Medium, Micro and High) By Application (Pumps, Electric Fans, HVAC, Conveyers and Extruders & Others) By End User (Oil & Gas, Industrial, Food & Beverages, Power Generation, Infrastructure, Automotive and Others) By Region, Industry Analysis and Forecast, 2019 - 2025

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Abstracts

The Global Variable Frequency Drive (VFD) Market size is expected to reach \$31.3 billion by 2025, rising at a market growth of 6% CAGR during the forecast period. A Variable Frequency Drive (VFD) is a kind of motor controller that drives an electric motor through changing the supplied frequency and voltage to the motor. Variable speed drive, adjustable frequency drive, adjustable speed drive, AC drive, microdrive, and inverter are the other names for a VFD. Frequency (or hertz) is directly associated with the speed of the motor (RPMs).

The introduction of advanced microprocessors has allowed the VFD to function as an extremely versatile system that not only controls the motor's speed, but also protects against overcurrent during ramp-up and ramp-down circumstances. In addition, new VFDs include braking methods, power boost during ramp-up, and a range of controls during ramp-down. The biggest advantage the VFD offers is that it can ensure that when it starts, the engine does not pull unnecessary current, so that the overall demand factor for the entire plant can be managed to keep the utility bill as low as possible.

Currently, the VFD is by far the most prevalent kind of output or load for a control



system. When applications become more sophisticated, the VFD can control the motor speed, the way the motor shaft turns the torque the motor gives to a load and any other motor parameters that can be sensed. Latest VFDs have a number of parameters which can be controlled or downloaded from the other microprocessor-controlled systems such as a programmable controller (PLC). These VFDs often come in smaller sizes that are cost-effective and take up less space.

Based on Product Type, the market is segmented into AC Drives, DC Drives and Servo Drives. Based on Power Range, the market is segmented into Low, Medium, Micro and High. Based on Application, the market is segmented into Pumps, Electric Fans, HVAC, Conveyers and Extruders & Others. Based on End User, the market is segmented into Oil & Gas, Industrial, Food & Beverages, Power Generation, Infrastructure, Automotive and Others. Based on Regions, the market is segmented into North America, Europe, Asia Pacific, and Latin America, Middle East & Africa.

The market research report covers theanalysis of key stake holders of the market. Key companies profiled in the report include ABB Group, Hitachi, Ltd., Eaton Corporation PLC, Rockwell Automation, Inc., Nidec Corporation, Siemens AG, Schneider Electric SE, Mitsubishi Heavy Industries Ltd., Fuji Electric Co., Ltd., and The Danfoss Group.

Recent strategies deployed in Variable Frequency Drive Market Partnerships, Collaborations, and Agreements:

Feb-2020: Eaton teamed up with Enico Oy, a developer of comprehensive integrated energy storing solutions. The collaboration was aimed at developing an innovative easy-to-deploy battery system for minimization of houses' footprint.

Oct-2019: Schneider Electric partnered with Quantum Controls, a company engaged in developing and manufacturing high-quality Printed Circuit Board Assemblies (PCBA's). The partnership integrates Schneider Electric's Altivar range of Variable Speed Drives (VSD) with Quantum Control's onsite service offering and control panel building business. Together, the companies aimed at providing support, maintenance, repairs, updates, 24/7 onsite support, and first-fix guarantee to the customers.

Feb-2018: Schneider Electric came into partnership with Sydney-based High Technology Control (HTC), a leading variable speed drive distributor. The partnership enabled the company in expanding its footprints to other countries and targeting a wide range of audiences.

Acquisition and Mergers:



Jan-2020: Siemens signed an agreement to acquire C&S Electric Limited, a provider of electrical and electronic equipment. The acquisition would strengthen Siemens' position as a supplier of low-voltage power distribution and electrical installation technology.

Jul-2019: Eaton acquired Innovative Switchgear Solutions (ISG), a specialty manufacturer of medium-voltage (MV) electrical equipment. The acquisition enabled the company to expand its product portfolio in electrical equipment. The company also signed an agreement to acquire Souriau-Sunbank Connection Technologies, a TransDigm Group business in Versailles, France.

Dec-2018: Hitachi took over ABB's power grids business. Through the acquisition, the former company cemented its position in the energy solutions sector.

Jul-2018: ABB acquired GE Industrial Solutions (GEIS), GE's electrification solutions business. The acquisition reinforced ABB's electrification business and accelerated the growth and competitiveness of the company.

Jul-2017: ABB completed the acquisition of B&R, the largest independent provider focused on product and software-based, open-architecture solutions. Through this acquisition, the machine and factory automation business of ABB could be expanded significantly.

Feb-2017: Nidec Corporation completed the acquisition of Leroy-Somer and Control Techniques, Emerson Electric's motors, drives, and electric power generation businesses. The acquisition expanded Nidec's motor offering and product lineup including variable speed drives.

Geographical Expansions:

Nov-2019: Schneider Electric expanded its foothold to India by opening a new factory in Bengaluru, Karnataka. The factory would manufacture industrial uninterruptible power supply (UPS) systems and variable speed drives, which regulates the rotation speed of an electric motor.

Nov-2019: Nidec invested in its Monterrey, Mexico manufacturing facility. The company invested \$2.3 million for expanding the facility by 60,000 square feet. The expansion resulted in increased production capacity and improved operations. The facility operates as a part of NMC's Commercial Industrial Motors & Drives (CIMD) business.

Mar-2018: Schneider Electric opened a new business in East Asia & Japan



headquarters in Singapore. This business was aimed at developing tailored solutions for optimizing energy efficiencies for building, healthcare, data center, oil & gas, and utility segments.

Product Launches and Product Expansions:

Nov-2019: ABB upgraded its ABB Ability Digital Powertrain concept by launching a new Condition-Based Maintenance service option for drives. The option monitors the key components in variable speed drives continuously. This new option delivers the earliest warning of any abnormal conditions, which might cause a drive to fail prematurely.

Nov-2019: Rockwell Automation launched Allen-Bradley Kinetix 5100 servo, a new Kinetix 5100 servo drive, Kinetix TLP motor, and cable. This drive has multiple control modes that are available for supporting a wider range of high-speed, low-power motion control applications.

Aug-2019: Rockwell Automation introduced the Allen-Bradley PowerFlex 6000 Medium Voltage Variable Frequency Drive (VFD. This drive works well in any retrofit opportunity and can be applied in fan and pump applications in industries such as oil and gas, mining and water/wastewater.

Jul-2019: ABB launched five new multi-functional power quality and energy storage solutions. These solutions have been designed for reducing the range of power quality problems for electrical networks. The solutions are as follows: PQflexC – variable reactive power controller; PQdynaC - ultra-fast reactive power and unbalance controller; PQactiF - active harmonic filter; PQStorl - battery storage inverter with power quality functions; and PQoptiM - controls and monitors power quality parameters.

May-2019: Toshiba Mitsubishi-Electric Industrial Systems Corporation (TMEIC), a JV company launched the Drive-Guardian, an outdoor enclosure for its popular TMdrive-MVe2 medium voltage (MV) variable frequency drive (VFD). This enclosure eradicates the need to house the drive in a temperature-controlled industrial control building or E-house.

Apr-2019: Johnson Controls-Hitachi Air Conditioning launched a full range of innovative Hitachi scroll compressor products. These Hitachi scroll compressor products and technologies provide high efficiency, energy-saving performance, and exceptional reliability.

Mar-2019: ABB introduced the DCS880 variable speed drive (VSD). This drive enables



Low

Medium

the users to have an option for continuing using DC technologies while aligning with modern AC advancements.

Nov-2018: Rockwell Automation extended the power ranges and capabilities of TotalFORCE technology by launching Allen-Bradley PowerFlex 755T AC drives. The drives provide expanded power range and help engineers with applications from 10 to 6,000 horsepower, improve productivity and reduce their lifecycle costs.

Nov-2018: Siemens introduced Sinamics Perfect Harmony GH180 Outdoor Duty Drive. This drive aims at improving efficiency and promoting longevity in challenging environments.

Sep-2018: ABB unveiled ACQ580 variable frequency drive (VFD) for the water and wastewater industries. This drive improves system performance, facilitates commissioning and operation, and optimizes wire-to-water/-air efficiency.

Sep-2018: Danfoss India unveiled an Enclosed Low Harmonic drive with passive filters. The drive helps in reducing the energy consumption of external components and reducing the loss of energy in the process.

Scope of the Study					
Market Segmentation:					
By Product Type					
AC Drives					
DC Drives					
Servo Drives					
By Power Range					



Micro

	High			
By Application				
	Pumps			
	Electric Fans			
	HVAC			
	Conveyers			
	Extruders & Others			
By End User				
	Oil & Gas			
	Industrial			
	Food & Beverages			
	Power Generation			
	Infrastructure			
	Automotive			
	Others			
By Geography				

North America



	US	
	Canada	
	Mexico	
	Rest of North America	
Europ	pe	
	Germany	
	UK	
	France	
	Russia	
	Spain	
	Italy	
	Rest of Europe	
Asia F	Pacific	
	China	
	Japan	
	India	
	South Korea	
	Singapore	
	Malaysia	
	Rest of Asia Pacific	



LAMEA

Brazil Argentina **UAE** Saudi Arabia South Africa Nigeria Rest of LAMEA **Companies Profiled ABB** Group Hitachi, Ltd. Eaton Corporation PLC Rockwell Automation, Inc. Nidec Corporation Siemens AG Schneider Electric SE Mitsubishi Heavy Industries Ltd. Fuji Electric Co., Ltd.

The Danfoss Group



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Contents

CHAPTER 1. MARKET SCOPE & METHODOLOGY

- 1.1 Market Definition
- 1.2 Objectives
- 1.3 Market Scope
- 1.4 Segmentation
 - 1.4.1 Global Variable Frequency Drive (VFD) Market, by Product Type
 - 1.4.2 Global Variable Frequency Drive (VFD) Market, by Power Range
 - 1.4.3 Global Variable Frequency Drive (VFD) Market, by Application
- 1.4.4 Global Variable Frequency Drive (VFD) Market, by End User
- 1.4.5 Global Variable Frequency Drive (VFD) Market, by Geography
- 1.5 Methodology for the research

CHAPTER 2. MARKET OVERVIEW

- 2.1 Introduction
 - 2.1.1 Overview
 - 2.1.2 Executive Summary
 - 2.1.3 Market Composition and Scenario
- 2.2 Key Factors Impacting the Market
 - 2.2.1 Market Drivers
 - 2.2.2 Market Restraints

CHAPTER 3. COMPETITION ANALYSIS - GLOBAL

- 3.1 KBV Cardinal Matrix
- 3.2 Recent Industry Wide Strategic Developments
 - 3.2.1 Partnerships, Collaborations and Agreements
 - 3.2.2 Product Launches and Product Expansions
 - 3.2.3 Geographical Expansions
 - 3.2.4 Mergers & Acquisitions
- 3.3 Top Winning Strategies
 - 3.3.1 Key Leading Strategies: Percentage Distribution (2015-2019)
- 3.3.2 Key Strategic Move: (Product Launches and Product Expansions: 2015, Jan 2019, Nov) Leading Players

CHAPTER 4. GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT



TYPE

- 4.1 Global Variable Frequency Drive AC Drives Market by Region
- 4.2 Global Variable Frequency Drive DC Drives Market by Region
- 4.3 Global Variable Frequency Drive Servo Drives Market by Region

CHAPTER 5. GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE

- 5.1 Global Low Variable Frequency Drive Market by Region
- 5.2 Global Medium Variable Frequency Drive Market by Region
- 5.3 Global Micro Variable Frequency Drive Market by Region
- 5.4 Global High Power Range Variable Frequency Drive Market by Region

CHAPTER 6. GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION

- 6.1 Global Pumps Variable Frequency Drive Market by Region
- 6.2 Global Electric Fans Variable Frequency Drive Market by Region
- 6.3 Global HVAC Variable Frequency Drive Market by Region
- 6.4 Global Conveyers Variable Frequency Drive Market by Region
- 6.5 Global Extruders & Others Variable Frequency Drive Market by Region

CHAPTER 7. GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY END USER

- 7.1 Global Oil & Gas Variable Frequency Drive Market by Region
- 7.2 Global Industrial Variable Frequency Drive Market by Region
- 7.3 Global Food & Beverages Variable Frequency Drive Market by Region
- 7.4 Global Power Generation Variable Frequency Drive Market by Region
- 7.5 Global Infrastructure Variable Frequency Drive Market by Region
- 7.6 Global Automotive Variable Frequency Drive Market by Region
- 7.7 Global Others Variable Frequency Drive Market by Region

CHAPTER 8. GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY REGION

- 8.1 North America Variable Frequency Drive Market
 - 8.1.1 North America Variable Frequency Drive Market by Product Type
 - 8.1.1.1 North America Variable Frequency Drive AC Drives Market by Country
 - 8.1.1.2 North America Variable Frequency Drive DC Drives Market by Country



- 8.1.1.3 North America Variable Frequency Drive Servo Drives Market by Country
- 8.1.2 North America Variable Frequency Drive Market by Power Range
 - 8.1.2.1 North America Low Variable Frequency Drive Market by Country
 - 8.1.2.2 North America Medium Variable Frequency Drive Market by Country
 - 8.1.2.3 North America Micro Variable Frequency Drive Market by Country
- 8.1.2.4 North America High Power Range Variable Frequency Drive Market by Country
- 8.1.3 North America Variable Frequency Drive Market by Application
 - 8.1.3.1 North America Pumps Variable Frequency Drive Market by Country
 - 8.1.3.2 North America Electric Fans Variable Frequency Drive Market by Country
 - 8.1.3.3 North America HVAC Variable Frequency Drive Market by Country
 - 8.1.3.4 North America Conveyers Variable Frequency Drive Market by Country
- 8.1.3.5 North America Extruders & Others Variable Frequency Drive Market by Country
 - 8.1.4 North America Variable Frequency Drive Market by End User
 - 8.1.4.1 North America Oil & Gas Variable Frequency Drive Market by Country
 - 8.1.4.2 North America Industrial Variable Frequency Drive Market by Country
- 8.1.4.3 North America Food & Beverages Variable Frequency Drive Market by Country
- 8.1.4.4 North America Power Generation Variable Frequency Drive Market by Country
 - 8.1.4.5 North America Infrastructure Variable Frequency Drive Market by Country
 - 8.1.4.6 North America Automotive Variable Frequency Drive Market by Country
 - 8.1.4.7 North America Others Variable Frequency Drive Market by Country
 - 8.1.5 North America Variable Frequency Drive Market by Country
 - 8.1.5.1 US Variable Frequency Drive Market
 - 8.1.5.1.1 US Variable Frequency Drive Market by Product Type
 - 8.1.5.1.2 US Variable Frequency Drive Market by Power Range
 - 8.1.5.1.3 US Variable Frequency Drive Market by Application
 - 8.1.5.1.4 US Variable Frequency Drive Market by End User
 - 8.1.5.2 Canada Variable Frequency Drive Market
 - 8.1.5.2.1 Canada Variable Frequency Drive Market by Product Type
 - 8.1.5.2.2 Canada Variable Frequency Drive Market by Power Range
 - 8.1.5.2.3 Canada Variable Frequency Drive Market by Application
 - 8.1.5.2.4 Canada Variable Frequency Drive Market by End User
 - 8.1.5.3 Mexico Variable Frequency Drive Market
 - 8.1.5.3.1 Mexico Variable Frequency Drive Market by Product Type
 - 8.1.5.3.2 Mexico Variable Frequency Drive Market by Power Range
 - 8.1.5.3.3 Mexico Variable Frequency Drive Market by Application



- 8.1.5.3.4 Mexico Variable Frequency Drive Market by End User
- 8.1.5.4 Rest of North America Variable Frequency Drive Market
 - 8.1.5.4.1 Rest of North America Variable Frequency Drive Market by Product Type
 - 8.1.5.4.2 Rest of North America Variable Frequency Drive Market by Power Range
- 8.1.5.4.3 Rest of North America Variable Frequency Drive Market by Application
- 8.1.5.4.4 Rest of North America Variable Frequency Drive Market by End User
- 8.2 Europe Variable Frequency Drive Market
 - 8.2.1 Europe Variable Frequency Drive Market by Product Type
 - 8.2.1.1 Europe Variable Frequency Drive AC Drives Market by Country
 - 8.2.1.2 Europe Variable Frequency Drive DC Drives Market by Country
 - 8.2.1.3 Europe Variable Frequency Drive Servo Drives Market by Country
 - 8.2.2 Europe Variable Frequency Drive Market by Power Range
 - 8.2.2.1 Europe Low Variable Frequency Drive Market by Country
 - 8.2.2.2 Europe Medium Variable Frequency Drive Market by Country
 - 8.2.2.3 Europe Micro Variable Frequency Drive Market by Country
 - 8.2.2.4 Europe High Power Range Variable Frequency Drive Market by Country
 - 8.2.3 Europe Variable Frequency Drive Market by Application
 - 8.2.3.1 Europe Pumps Variable Frequency Drive Market by Country
 - 8.2.3.2 Europe Electric Fans Variable Frequency Drive Market by Country
 - 8.2.3.3 Europe HVAC Variable Frequency Drive Market by Country
 - 8.2.3.4 Europe Conveyers Variable Frequency Drive Market by Country
 - 8.2.3.5 Europe Extruders & Others Variable Frequency Drive Market by Country
 - 8.2.4 Europe Variable Frequency Drive Market by End User
 - 8.2.4.1 Europe Oil & Gas Variable Frequency Drive Market by Country
 - 8.2.4.2 Europe Industrial Variable Frequency Drive Market by Country
 - 8.2.4.3 Europe Food & Beverages Variable Frequency Drive Market by Country
 - 8.2.4.4 Europe Power Generation Variable Frequency Drive Market by Country
 - 8.2.4.5 Europe Infrastructure Variable Frequency Drive Market by Country
 - 8.2.4.6 Europe Automotive Variable Frequency Drive Market by Country
 - 8.2.4.7 Europe Others Variable Frequency Drive Market by Country
 - 8.2.5 Europe Variable Frequency Drive Market by Country
 - 8.2.5.1 Germany Variable Frequency Drive Market
 - 8.2.5.1.1 Germany Variable Frequency Drive Market by Product Type
 - 8.2.5.1.2 Germany Variable Frequency Drive Market by Power Range
 - 8.2.5.1.3 Germany Variable Frequency Drive Market by Application
 - 8.2.5.1.4 Germany Variable Frequency Drive Market by End User
 - 8.2.5.2 UK Variable Frequency Drive Market
 - 8.2.5.2.1 UK Variable Frequency Drive Market by Product Type
 - 8.2.5.2.2 UK Variable Frequency Drive Market by Power Range



- 8.2.5.2.3 UK Variable Frequency Drive Market by Application
- 8.2.5.2.4 UK Variable Frequency Drive Market by End User
- 8.2.5.3 France Variable Frequency Drive Market
 - 8.2.5.3.1 France Variable Frequency Drive Market by Product Type
 - 8.2.5.3.2 France Variable Frequency Drive Market by Power Range
- 8.2.5.3.3 France Variable Frequency Drive Market by Application
- 8.2.5.3.4 France Variable Frequency Drive Market by End User
- 8.2.5.4 Russia Variable Frequency Drive Market
 - 8.2.5.4.1 Russia Variable Frequency Drive Market by Product Type
 - 8.2.5.4.2 Russia Variable Frequency Drive Market by Power Range
 - 8.2.5.4.3 Russia Variable Frequency Drive Market by Application
 - 8.2.5.4.4 Russia Variable Frequency Drive Market by End User
- 8.2.5.5 Spain Variable Frequency Drive Market
 - 8.2.5.5.1 Spain Variable Frequency Drive Market by Product Type
- 8.2.5.5.2 Spain Variable Frequency Drive Market by Power Range
- 8.2.5.5.3 Spain Variable Frequency Drive Market by Application
- 8.2.5.5.4 Spain Variable Frequency Drive Market by End User
- 8.2.5.6 Italy Variable Frequency Drive Market
 - 8.2.5.6.1 Italy Variable Frequency Drive Market by Product Type
 - 8.2.5.6.2 Italy Variable Frequency Drive Market by Power Range
 - 8.2.5.6.3 Italy Variable Frequency Drive Market by Application
 - 8.2.5.6.4 Italy Variable Frequency Drive Market by End User
- 8.2.5.7 Rest of Europe Variable Frequency Drive Market
 - 8.2.5.7.1 Rest of Europe Variable Frequency Drive Market by Product Type
 - 8.2.5.7.2 Rest of Europe Variable Frequency Drive Market by Power Range
 - 8.2.5.7.3 Rest of Europe Variable Frequency Drive Market by Application
 - 8.2.5.7.4 Rest of Europe Variable Frequency Drive Market by End User
- 8.3 Asia Pacific Variable Frequency Drive Market
 - 8.3.1 Asia Pacific Variable Frequency Drive Market by Product Type
 - 8.3.1.1 Asia Pacific Variable Frequency Drive AC Drives Market by Country
 - 8.3.1.2 Asia Pacific Variable Frequency Drive DC Drives Market by Country
 - 8.3.1.3 Asia Pacific Variable Frequency Drive Servo Drives Market by Country
 - 8.3.2 Asia Pacific Variable Frequency Drive Market by Power Range
 - 8.3.2.1 Asia Pacific Low Variable Frequency Drive Market by Country
 - 8.3.2.2 Asia Pacific Medium Variable Frequency Drive Market by Country
 - 8.3.2.3 Asia Pacific Micro Variable Frequency Drive Market by Country
 - 8.3.2.4 Asia Pacific High Power Range Variable Frequency Drive Market by Country
 - 8.3.3 Asia Pacific Variable Frequency Drive Market by Application
 - 8.3.3.1 Asia Pacific Pumps Variable Frequency Drive Market by Country



- 8.3.3.2 Asia Pacific Electric Fans Variable Frequency Drive Market by Country
- 8.3.3.3 Asia Pacific HVAC Variable Frequency Drive Market by Country
- 8.3.3.4 Asia Pacific Conveyers Variable Frequency Drive Market by Country
- 8.3.3.5 Asia Pacific Extruders & Others Variable Frequency Drive Market by Country
- 8.3.4 Asia Pacific Variable Frequency Drive Market by End User
 - 8.3.4.1 Asia Pacific Oil & Gas Variable Frequency Drive Market by Country
 - 8.3.4.2 Asia Pacific Industrial Variable Frequency Drive Market by Country
 - 8.3.4.3 Asia Pacific Food & Beverages Variable Frequency Drive Market by Country
 - 8.3.4.4 Asia Pacific Power Generation Variable Frequency Drive Market by Country
 - 8.3.4.5 Asia Pacific Infrastructure Variable Frequency Drive Market by Country
 - 8.3.4.6 Asia Pacific Automotive Variable Frequency Drive Market by Country
 - 8.3.4.7 Asia Pacific Others Variable Frequency Drive Market by Country
- 8.3.5 Asia Pacific Variable Frequency Drive Market by Country
 - 8.3.5.1 China Variable Frequency Drive Market
 - 8.3.5.1.1 China Variable Frequency Drive Market by Product Type
 - 8.3.5.1.2 China Variable Frequency Drive Market by Power Range
 - 8.3.5.1.3 China Variable Frequency Drive Market by Application
 - 8.3.5.1.4 China Variable Frequency Drive Market by End User
 - 8.3.5.2 Japan Variable Frequency Drive Market
 - 8.3.5.2.1 Japan Variable Frequency Drive Market by Product Type
 - 8.3.5.2.2 Japan Variable Frequency Drive Market by Power Range
 - 8.3.5.2.3 Japan Variable Frequency Drive Market by Application
 - 8.3.5.2.4 Japan Variable Frequency Drive Market by End User
 - 8.3.5.3 India Variable Frequency Drive Market
 - 8.3.5.3.1 India Variable Frequency Drive Market by Product Type
 - 8.3.5.3.2 India Variable Frequency Drive Market by Power Range
 - 8.3.5.3.3 India Variable Frequency Drive Market by Application
 - 8.3.5.3.4 India Variable Frequency Drive Market by End User
 - 8.3.5.4 South Korea Variable Frequency Drive Market
 - 8.3.5.4.1 South Korea Variable Frequency Drive Market by Product Type
 - 8.3.5.4.2 South Korea Variable Frequency Drive Market by Power Range
 - 8.3.5.4.3 South Korea Variable Frequency Drive Market by Application
 - 8.3.5.4.4 South Korea Variable Frequency Drive Market by End User
 - 8.3.5.5 Singapore Variable Frequency Drive Market
 - 8.3.5.5.1 Singapore Variable Frequency Drive Market by Product Type
 - 8.3.5.5.2 Singapore Variable Frequency Drive Market by Power Range
 - 8.3.5.5.3 Singapore Variable Frequency Drive Market by Application
 - 8.3.5.5.4 Singapore Variable Frequency Drive Market by End User
 - 8.3.5.6 Malaysia Variable Frequency Drive Market



- 8.3.5.6.1 Malaysia Variable Frequency Drive Market by Product Type
- 8.3.5.6.2 Malaysia Variable Frequency Drive Market by Power Range
- 8.3.5.6.3 Malaysia Variable Frequency Drive Market by Application
- 8.3.5.6.4 Malaysia Variable Frequency Drive Market by End User
- 8.3.5.7 Rest of Asia Pacific Variable Frequency Drive Market
 - 8.3.5.7.1 Rest of Asia Pacific Variable Frequency Drive Market by Product Type
- 8.3.5.7.2 Rest of Asia Pacific Variable Frequency Drive Market by Power Range
- 8.3.5.7.3 Rest of Asia Pacific Variable Frequency Drive Market by Application
- 8.3.5.7.4 Rest of Asia Pacific Variable Frequency Drive Market by End User
- 8.4 LAMEA Variable Frequency Drive Market
 - 8.4.1 LAMEA Variable Frequency Drive Market by Product Type
 - 8.4.1.1 LAMEA Variable Frequency Drive AC Drives Market by Country
 - 8.4.1.2 LAMEA Variable Frequency Drive DC Drives Market by Country
 - 8.4.1.3 LAMEA Variable Frequency Drive Servo Drives Market by Country
 - 8.4.2 LAMEA Variable Frequency Drive Market by Power Range
 - 8.4.2.1 LAMEA Low Variable Frequency Drive Market by Country
 - 8.4.2.2 LAMEA Medium Variable Frequency Drive Market by Country
 - 8.4.2.3 LAMEA Micro Variable Frequency Drive Market by Country
 - 8.4.2.4 LAMEA High Power Range Variable Frequency Drive Market by Country
 - 8.4.3 LAMEA Variable Frequency Drive Market by Application
 - 8.4.3.1 LAMEA Pumps Variable Frequency Drive Market by Country
 - 8.4.3.2 LAMEA Electric Fans Variable Frequency Drive Market by Country
 - 8.4.3.3 LAMEA HVAC Variable Frequency Drive Market by Country
 - 8.4.3.4 LAMEA Conveyers Variable Frequency Drive Market by Country
 - 8.4.3.5 LAMEA Extruders & Others Variable Frequency Drive Market by Country
 - 8.4.4 LAMEA Variable Frequency Drive Market by End User
 - 8.4.4.1 LAMEA Oil & Gas Variable Frequency Drive Market by Country
 - 8.4.4.2 LAMEA Industrial Variable Frequency Drive Market by Country
 - 8.4.4.3 LAMEA Food & Beverages Variable Frequency Drive Market by Country
 - 8.4.4.4 LAMEA Power Generation Variable Frequency Drive Market by Country
 - 8.4.4.5 LAMEA Infrastructure Variable Frequency Drive Market by Country
 - 8.4.4.6 LAMEA Automotive Variable Frequency Drive Market by Country
 - 8.4.4.7 LAMEA Others Variable Frequency Drive Market by Country
 - 8.4.5 LAMEA Variable Frequency Drive Market by Country
 - 8.4.5.1 Brazil Variable Frequency Drive Market
 - 8.4.5.1.1 Brazil Variable Frequency Drive Market by Product Type
 - 8.4.5.1.2 Brazil Variable Frequency Drive Market by Power Range
 - 8.4.5.1.3 Brazil Variable Frequency Drive Market by Application
 - 8.4.5.1.4 Brazil Variable Frequency Drive Market by End User



3.4.5.2 Argentina	Variable Fred	quency Drive	Market
-------------------	---------------	--------------	--------

- 8.4.5.2.1 Argentina Variable Frequency Drive Market by Product Type
- 8.4.5.2.2 Argentina Variable Frequency Drive Market by Power Range
- 8.4.5.2.3 Argentina Variable Frequency Drive Market by Application
- 8.4.5.2.4 Argentina Variable Frequency Drive Market by End User
- 8.4.5.3 UAE Variable Frequency Drive Market
 - 8.4.5.3.1 UAE Variable Frequency Drive Market by Product Type
 - 8.4.5.3.2 UAE Variable Frequency Drive Market by Power Range
 - 8.4.5.3.3 UAE Variable Frequency Drive Market by Application
 - 8.4.5.3.4 UAE Variable Frequency Drive Market by End User
- 8.4.5.4 Saudi Arabia Variable Frequency Drive Market
 - 8.4.5.4.1 Saudi Arabia Variable Frequency Drive Market by Product Type
- 8.4.5.4.2 Saudi Arabia Variable Frequency Drive Market by Power Range
- 8.4.5.4.3 Saudi Arabia Variable Frequency Drive Market by Application
- 8.4.5.4.4 Saudi Arabia Variable Frequency Drive Market by End User
- 8.4.5.5 South Africa Variable Frequency Drive Market
 - 8.4.5.5.1 South Africa Variable Frequency Drive Market by Product Type
 - 8.4.5.5.2 South Africa Variable Frequency Drive Market by Power Range
 - 8.4.5.5.3 South Africa Variable Frequency Drive Market by Application
 - 8.4.5.5.4 South Africa Variable Frequency Drive Market by End User
- 8.4.5.6 Nigeria Variable Frequency Drive Market
- 8.4.5.6.1 Nigeria Variable Frequency Drive Market by Product Type
- 8.4.5.6.2 Nigeria Variable Frequency Drive Market by Power Range
- 8.4.5.6.3 Nigeria Variable Frequency Drive Market by Application
- 8.4.5.6.4 Nigeria Variable Frequency Drive Market by End User
- 8.4.5.7 Rest of LAMEA Variable Frequency Drive Market
 - 8.4.5.7.1 Rest of LAMEA Variable Frequency Drive Market by Product Type
 - 8.4.5.7.2 Rest of LAMEA Variable Frequency Drive Market by Power Range
 - 8.4.5.7.3 Rest of LAMEA Variable Frequency Drive Market by Application
- 8.4.5.7.4 Rest of LAMEA Variable Frequency Drive Market by End User

CHAPTER 9. COMPANY PROFILES

- 9.1 ABB Group
 - 9.1.1 Company Overview
 - 9.1.2 Financial Analysis
 - 9.1.3 Segmental and Regional Analysis
 - 9.1.4 Research & Development Expense
 - 9.1.5 Recent strategies and developments:



- 9.1.5.1 Product Launches and Product Expansions:
- 9.1.5.2 Acquisition and Mergers:
- 9.1.5.3 Geographical Expansions:
- 9.1.6 SWOT Analysis
- 9.2 Hitachi, Ltd.
 - 9.2.1 Company Overview
 - 9.2.2 Financial Analysis
 - 9.2.3 Segmental and Regional Analysis
 - 9.2.4 Research & Development Expenses
 - 9.2.5 Recent strategies and developments:
 - 9.2.5.1 Partnerships, Collaborations, and Agreements:
 - 9.2.5.2 Product Launches and Product Expansions:
 - 9.2.5.3 Acquisition and Mergers:
 - 9.2.6 SWOT Analysis
- 9.3 Eaton Corporation PLC
 - 9.3.1 Company Overview
 - 9.3.2 Financial Analysis
 - 9.3.3 Segmental and Regional Analysis
 - 9.3.4 Regional analysis
 - 9.3.5 Research & Development Expense
 - 9.3.6 Recent strategies and developments:
 - 9.3.6.1 Product Launches and Product Expansions:
 - 9.3.6.2 Acquisition and Mergers:
 - 9.3.6.3 Partnerships, Collaborations, and Agreements:
 - 9.3.7 Swot Analysis
- 9.4 Rockwell Automation, Inc.
 - 9.4.1 Company Overview
 - 9.4.2 Financial Analysis
 - 9.4.3 Segmental and Regional Analysis
 - 9.4.4 Research & Development Expenses
 - 9.4.5 Recent strategies and developments:
 - 9.4.5.1 Product Launches and Product Expansions:
 - 9.4.6 SWOT Analysis
- 9.5 Nidec Corporation
 - 9.5.1 Company Overview
 - 9.5.2 Financial Analysis
 - 9.5.3 Segmental and Regional Analysis
 - 9.5.4 Research & Development Expense
 - 9.5.5 Recent strategies and developments:



- 9.5.5.1 Product Launches and Product Expansions:
- 9.5.5.2 Acquisition and Mergers:
- 9.5.5.3 Geographical Expansions:
- 9.5.6 SWOT Analysis
- 9.6 Siemens AG
 - 9.6.1 Company Overview
 - 9.6.2 Financial Analysis
 - 9.6.3 Segmental and Regional Analysis
 - 9.6.4 Research & Development Expense
 - 9.6.5 Recent strategies and developments:
 - 9.6.5.1 Product Launches and Product Expansions:
 - 9.6.5.2 Acquisition and Mergers:
 - 9.6.6 SWOT Analysis
- 9.7 Schneider Electric SE
 - 9.7.1 Company Overview
 - 9.7.2 Financial Analysis
 - 9.7.3 Segmental And Regional Analysis
 - 9.7.4 Research & Development Expense
 - 9.7.5 Recent strategies and developments:
 - 9.7.5.1 Product Launches and Product Expansions:
 - 9.7.5.2 Geographical Expansions:
 - 9.7.5.3 Partnerships, Collaborations, and Agreements:
 - 9.7.6 SWOT Analysis
- 9.8 Mitsubishi Heavy Industries Ltd.
 - 9.8.1 Company Overview
 - 9.8.2 Financial Analysis
 - 9.8.3 Segmental Analysis
 - 9.8.4 Recent strategies and developments:
 - 9.8.4.1 Product Launches and Product Expansions:
 - 9.8.5 SWOT Analysis
- 9.9 Fuji Electric Co. Ltd. (Furukawa Group)
 - 9.9.1 Company Overview
 - 9.9.2 Financial Analysis
 - 9.9.3 Segmental Analysis
 - 9.9.4 Research & Development Expense
 - 9.9.5 Recent strategies and developments:
 - 9.9.5.1 Product Launches and Product Expansions:
- 9.1 The Danfoss Group
- 9.10.1 Company Overview



- 9.10.2 Financial Analysis
- 9.10.3 Segmental And Regional Analysis
- 9.10.4 Research & Development Expense
- 9.10.5 Recent strategies and developments:
 - 9.10.5.1 Product Launches and Product Expansions:
 - 9.10.5.2 Acquisition and Mergers:



List Of Tables

LIST OF TABLES

TABLE 1 GLOBAL VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 2 GLOBAL VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 3 PARTNERSHIPS, COLLABORATIONS AND AGREEMENTS- VARIABLE FREQUENCY DRIVE MARKET

TABLE 4 PRODUCT LAUNCHES AND PRODUCT EXPANSIONS— VARIABLE FREQUENCY DRIVE MARKET

TABLE 5 GEOGRAPHICAL EXPANSIONS— VARIABLE FREQUENCY DRIVE MARKET

TABLE 6 MERGERS & ACQUISITIONS – VARIABLE FREQUENCY DRIVE MARKET TABLE 7 GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 8 GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 9 GLOBAL VARIABLE FREQUENCY DRIVE AC DRIVES MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 10 GLOBAL VARIABLE FREQUENCY DRIVE AC DRIVES MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 11 GLOBAL VARIABLE FREQUENCY DRIVE DC DRIVES MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 12 GLOBAL VARIABLE FREQUENCY DRIVE DC DRIVES MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 13 GLOBAL VARIABLE FREQUENCY DRIVE SERVO DRIVES MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 14 GLOBAL VARIABLE FREQUENCY DRIVE SERVO DRIVES MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 15 GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 16 GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 17 GLOBAL LOW VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 18 GLOBAL LOW VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION



TABLE 19 GLOBAL MEDIUM VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 20 GLOBAL MEDIUM VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 21 GLOBAL MICRO VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 22 GLOBAL MICRO VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 23 GLOBAL HIGH POWER RANGE VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 24 GLOBAL HIGH POWER RANGE VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 25 GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 26 GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 27 GLOBAL PUMPS VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 28 GLOBAL PUMPS VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 29 GLOBAL ELECTRIC FANS VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 30 GLOBAL ELECTRIC FANS VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 31 GLOBAL HVAC VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 32 GLOBAL HVAC VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 33 GLOBAL CONVEYERS VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 34 GLOBAL CONVEYERS VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 35 GLOBAL EXTRUDERS & OTHERS VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 36 GLOBAL EXTRUDERS & OTHERS VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 37 GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 38 GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 -



2025, USD MILLION

TABLE 39 GLOBAL OIL & GAS VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 40 GLOBAL OIL & GAS VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 41 GLOBAL INDUSTRIAL VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 42 GLOBAL INDUSTRIAL VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 43 GLOBAL FOOD & BEVERAGES VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 44 GLOBAL FOOD & BEVERAGES VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 45 GLOBAL POWER GENERATION VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 46 GLOBAL POWER GENERATION VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 47 GLOBAL INFRASTRUCTURE VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 48 GLOBAL INFRASTRUCTURE VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 49 GLOBAL AUTOMOTIVE VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 50 GLOBAL AUTOMOTIVE VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 51 GLOBAL OTHERS VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 52 GLOBAL OTHERS VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 53 GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2015 - 2018, USD MILLION

TABLE 54 GLOBAL VARIABLE FREQUENCY DRIVE MARKET BY REGION, 2019 - 2025, USD MILLION

TABLE 55 NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 56 NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 57 NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION



TABLE 58 NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 59 NORTH AMERICA VARIABLE FREQUENCY DRIVE AC DRIVES MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 60 NORTH AMERICA VARIABLE FREQUENCY DRIVE AC DRIVES MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 61 NORTH AMERICA VARIABLE FREQUENCY DRIVE DC DRIVES MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 62 NORTH AMERICA VARIABLE FREQUENCY DRIVE DC DRIVES MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 63 NORTH AMERICA VARIABLE FREQUENCY DRIVE SERVO DRIVES MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 64 NORTH AMERICA VARIABLE FREQUENCY DRIVE SERVO DRIVES MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 65 NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 66 NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 67 NORTH AMERICA LOW VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 68 NORTH AMERICA LOW VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 69 NORTH AMERICA MEDIUM VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 70 NORTH AMERICA MEDIUM VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 71 NORTH AMERICA MICRO VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 72 NORTH AMERICA MICRO VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 73 NORTH AMERICA HIGH POWER RANGE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 74 NORTH AMERICA HIGH POWER RANGE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 75 NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 76 NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 77 NORTH AMERICA PUMPS VARIABLE FREQUENCY DRIVE MARKET BY



COUNTRY, 2015 - 2018, USD MILLION

TABLE 78 NORTH AMERICA PUMPS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 79 NORTH AMERICA ELECTRIC FANS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 80 NORTH AMERICA ELECTRIC FANS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 81 NORTH AMERICA HVAC VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 82 NORTH AMERICA HVAC VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 83 NORTH AMERICA CONVEYERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 84 NORTH AMERICA CONVEYERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 85 NORTH AMERICA EXTRUDERS & OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 86 NORTH AMERICA EXTRUDERS & OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 87 NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 88 NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 89 NORTH AMERICA OIL & GAS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 90 NORTH AMERICA OIL & GAS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 91 NORTH AMERICA INDUSTRIAL VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 92 NORTH AMERICA INDUSTRIAL VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 93 NORTH AMERICA FOOD & BEVERAGES VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 94 NORTH AMERICA FOOD & BEVERAGES VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 95 NORTH AMERICA POWER GENERATION VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 96 NORTH AMERICA POWER GENERATION VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION



TABLE 97 NORTH AMERICA INFRASTRUCTURE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 98 NORTH AMERICA INFRASTRUCTURE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 99 NORTH AMERICA AUTOMOTIVE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 100 NORTH AMERICA AUTOMOTIVE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 101 NORTH AMERICA OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 102 NORTH AMERICA OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 103 NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 104 NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 105 US VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 106 US VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 107 US VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 108 US VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 109 US VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 110 US VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 111 US VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 112 US VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 113 US VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 114 US VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 115 CANADA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 116 CANADA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD



MILLION

TABLE 117 CANADA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 118 CANADA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 119 CANADA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 120 CANADA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 121 CANADA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 122 CANADA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 123 CANADA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 124 CANADA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 125 MEXICO VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 126 MEXICO VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 127 MEXICO VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 128 MEXICO VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 129 MEXICO VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 130 MEXICO VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 131 MEXICO VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 132 MEXICO VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 133 MEXICO VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 134 MEXICO VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 135 REST OF NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION



TABLE 136 REST OF NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 137 REST OF NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 138 REST OF NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 139 REST OF NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 140 REST OF NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 141 REST OF NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 142 REST OF NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 143 REST OF NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 144 REST OF NORTH AMERICA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 145 EUROPE VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 146 EUROPE VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 147 EUROPE VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 148 EUROPE VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 149 EUROPE VARIABLE FREQUENCY DRIVE AC DRIVES MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 150 EUROPE VARIABLE FREQUENCY DRIVE AC DRIVES MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 151 EUROPE VARIABLE FREQUENCY DRIVE DC DRIVES MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 152 EUROPE VARIABLE FREQUENCY DRIVE DC DRIVES MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 153 EUROPE VARIABLE FREQUENCY DRIVE SERVO DRIVES MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 154 EUROPE VARIABLE FREQUENCY DRIVE SERVO DRIVES MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 155 EUROPE VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE,



2015 - 2018, USD MILLION

TABLE 156 EUROPE VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 157 EUROPE LOW VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 158 EUROPE LOW VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 159 EUROPE MEDIUM VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 160 EUROPE MEDIUM VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 161 EUROPE MICRO VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 162 EUROPE MICRO VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 163 EUROPE HIGH POWER RANGE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 164 EUROPE HIGH POWER RANGE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 165 EUROPE VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 166 EUROPE VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 167 EUROPE PUMPS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 168 EUROPE PUMPS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 169 EUROPE ELECTRIC FANS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 170 EUROPE ELECTRIC FANS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 171 EUROPE HVAC VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 172 EUROPE HVAC VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 173 EUROPE CONVEYERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 174 EUROPE CONVEYERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION



TABLE 175 EUROPE EXTRUDERS & OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 176 EUROPE EXTRUDERS & OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 177 EUROPE VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 178 EUROPE VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 179 EUROPE OIL & GAS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 180 EUROPE OIL & GAS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 181 EUROPE INDUSTRIAL VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 182 EUROPE INDUSTRIAL VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 183 EUROPE FOOD & BEVERAGES VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 184 EUROPE FOOD & BEVERAGES VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 185 EUROPE POWER GENERATION VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 186 EUROPE POWER GENERATION VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 187 EUROPE INFRASTRUCTURE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 188 EUROPE INFRASTRUCTURE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 189 EUROPE AUTOMOTIVE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 190 EUROPE AUTOMOTIVE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 191 EUROPE OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 192 EUROPE OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 193 EUROPE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 194 EUROPE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019



- 2025, USD MILLION

TABLE 195 GERMANY VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 196 GERMANY VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 197 GERMANY VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 198 GERMANY VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 199 GERMANY VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 200 GERMANY VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 201 GERMANY VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 202 GERMANY VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 203 GERMANY VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 204 GERMANY VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 205 UK VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 206 UK VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 207 UK VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 208 UK VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 209 UK VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 210 UK VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 211 UK VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 212 UK VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 213 UK VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION



TABLE 214 UK VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 215 FRANCE VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 216 FRANCE VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 217 FRANCE VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 218 FRANCE VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 219 FRANCE VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 220 FRANCE VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 221 FRANCE VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 222 FRANCE VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 223 FRANCE VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 224 FRANCE VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 225 RUSSIA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 226 RUSSIA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 227 RUSSIA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 228 RUSSIA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 229 RUSSIA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 230 RUSSIA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 231 RUSSIA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 232 RUSSIA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 233 RUSSIA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015



- 2018, USD MILLION

TABLE 234 RUSSIA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 235 SPAIN VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 236 SPAIN VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 237 SPAIN VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 238 SPAIN VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 239 SPAIN VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 240 SPAIN VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 241 SPAIN VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 242 SPAIN VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 243 SPAIN VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 244 SPAIN VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 245 ITALY VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 246 ITALY VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 247 ITALY VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 248 ITALY VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 249 ITALY VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 250 ITALY VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 251 ITALY VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 252 ITALY VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION



TABLE 253 ITALY VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018. USD MILLION

TABLE 254 ITALY VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 255 REST OF EUROPE VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 256 REST OF EUROPE VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 257 REST OF EUROPE VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 258 REST OF EUROPE VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 259 REST OF EUROPE VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 260 REST OF EUROPE VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 261 REST OF EUROPE VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 262 REST OF EUROPE VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 263 REST OF EUROPE VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 264 REST OF EUROPE VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 265 ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 266 ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 267 ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 268 ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 269 ASIA PACIFIC VARIABLE FREQUENCY DRIVE AC DRIVES MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 270 ASIA PACIFIC VARIABLE FREQUENCY DRIVE AC DRIVES MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 271 ASIA PACIFIC VARIABLE FREQUENCY DRIVE DC DRIVES MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 272 ASIA PACIFIC VARIABLE FREQUENCY DRIVE DC DRIVES MARKET BY



COUNTRY, 2019 - 2025, USD MILLION

TABLE 273 ASIA PACIFIC VARIABLE FREQUENCY DRIVE SERVO DRIVES MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 274 ASIA PACIFIC VARIABLE FREQUENCY DRIVE SERVO DRIVES MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 275 ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 276 ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 277 ASIA PACIFIC LOW VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 278 ASIA PACIFIC LOW VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 279 ASIA PACIFIC MEDIUM VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 280 ASIA PACIFIC MEDIUM VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 281 ASIA PACIFIC MICRO VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 282 ASIA PACIFIC MICRO VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 283 ASIA PACIFIC HIGH POWER RANGE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 284 ASIA PACIFIC HIGH POWER RANGE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 285 ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 286 ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 287 ASIA PACIFIC PUMPS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 288 ASIA PACIFIC PUMPS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 289 ASIA PACIFIC ELECTRIC FANS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 290 ASIA PACIFIC ELECTRIC FANS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 291 ASIA PACIFIC HVAC VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION



TABLE 292 ASIA PACIFIC HVAC VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 293 ASIA PACIFIC CONVEYERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 294 ASIA PACIFIC CONVEYERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 295 ASIA PACIFIC EXTRUDERS & OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 296 ASIA PACIFIC EXTRUDERS & OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 297 ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 298 ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 299 ASIA PACIFIC OIL & GAS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 300 ASIA PACIFIC OIL & GAS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 301 ASIA PACIFIC INDUSTRIAL VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 302 ASIA PACIFIC INDUSTRIAL VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 303 ASIA PACIFIC FOOD & BEVERAGES VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 304 ASIA PACIFIC FOOD & BEVERAGES VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 305 ASIA PACIFIC POWER GENERATION VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 306 ASIA PACIFIC POWER GENERATION VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 307 ASIA PACIFIC INFRASTRUCTURE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 308 ASIA PACIFIC INFRASTRUCTURE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 309 ASIA PACIFIC AUTOMOTIVE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 310 ASIA PACIFIC AUTOMOTIVE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 311 ASIA PACIFIC OTHERS VARIABLE FREQUENCY DRIVE MARKET BY



COUNTRY, 2015 - 2018, USD MILLION

TABLE 312 ASIA PACIFIC OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 313 ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 314 ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 315 CHINA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 316 CHINA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 317 CHINA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 318 CHINA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 319 CHINA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 320 CHINA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 321 CHINA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 322 CHINA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 323 CHINA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 324 CHINA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 325 JAPAN VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 326 JAPAN VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 327 JAPAN VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 328 JAPAN VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 329 JAPAN VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 330 JAPAN VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION



TABLE 331 JAPAN VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 332 JAPAN VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 333 JAPAN VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 334 JAPAN VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 335 INDIA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 336 INDIA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 337 INDIA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 338 INDIA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 339 INDIA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 340 INDIA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 341 INDIA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 342 INDIA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 343 INDIA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 344 INDIA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 345 SOUTH KOREA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 346 SOUTH KOREA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 347 SOUTH KOREA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 348 SOUTH KOREA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 349 SOUTH KOREA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 350 SOUTH KOREA VARIABLE FREQUENCY DRIVE MARKET BY POWER



RANGE, 2019 - 2025, USD MILLION

TABLE 351 SOUTH KOREA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 352 SOUTH KOREA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 353 SOUTH KOREA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 354 SOUTH KOREA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 355 SINGAPORE VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 356 SINGAPORE VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 357 SINGAPORE VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 358 SINGAPORE VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 359 SINGAPORE VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 360 SINGAPORE VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 361 SINGAPORE VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 362 SINGAPORE VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 363 SINGAPORE VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 364 SINGAPORE VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 365 MALAYSIA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 366 MALAYSIA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 367 MALAYSIA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 368 MALAYSIA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 369 MALAYSIA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION



TABLE 370 MALAYSIA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 371 MALAYSIA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 372 MALAYSIA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 373 MALAYSIA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 374 MALAYSIA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 375 REST OF ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 376 REST OF ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 377 REST OF ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 378 REST OF ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 379 REST OF ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 380 REST OF ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 381 REST OF ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 382 REST OF ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 383 REST OF ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 384 REST OF ASIA PACIFIC VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 385 LAMEA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 386 LAMEA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 387 LAMEA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 388 LAMEA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 389 LAMEA VARIABLE FREQUENCY DRIVE AC DRIVES MARKET BY



COUNTRY, 2015 - 2018, USD MILLION

TABLE 390 LAMEA VARIABLE FREQUENCY DRIVE AC DRIVES MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 391 LAMEA VARIABLE FREQUENCY DRIVE DC DRIVES MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 392 LAMEA VARIABLE FREQUENCY DRIVE DC DRIVES MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 393 LAMEA VARIABLE FREQUENCY DRIVE SERVO DRIVES MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 394 LAMEA VARIABLE FREQUENCY DRIVE SERVO DRIVES MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 395 LAMEA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 396 LAMEA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 397 LAMEA LOW VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 398 LAMEA LOW VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 399 LAMEA MEDIUM VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 400 LAMEA MEDIUM VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 401 LAMEA MICRO VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 402 LAMEA MICRO VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 403 LAMEA HIGH POWER RANGE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 404 LAMEA HIGH POWER RANGE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 405 LAMEA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 406 LAMEA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 407 LAMEA PUMPS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 408 LAMEA PUMPS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION



TABLE 409 LAMEA ELECTRIC FANS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 410 LAMEA ELECTRIC FANS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 411 LAMEA HVAC VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 412 LAMEA HVAC VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 413 LAMEA CONVEYERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 414 LAMEA CONVEYERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 415 LAMEA EXTRUDERS & OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 416 LAMEA EXTRUDERS & OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 417 LAMEA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 418 LAMEA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 419 LAMEA OIL & GAS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 420 LAMEA OIL & GAS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 421 LAMEA INDUSTRIAL VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 422 LAMEA INDUSTRIAL VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 423 LAMEA FOOD & BEVERAGES VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 424 LAMEA FOOD & BEVERAGES VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 425 LAMEA POWER GENERATION VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 426 LAMEA POWER GENERATION VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 427 LAMEA INFRASTRUCTURE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 428 LAMEA INFRASTRUCTURE VARIABLE FREQUENCY DRIVE MARKET



BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 429 LAMEA AUTOMOTIVE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 430 LAMEA AUTOMOTIVE VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 431 LAMEA OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 432 LAMEA OTHERS VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 433 LAMEA VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 434 LAMEA VARIABLE FREQUENCY DRIVE MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 435 BRAZIL VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 436 BRAZIL VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 437 BRAZIL VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 438 BRAZIL VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 439 BRAZIL VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 440 BRAZIL VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 441 BRAZIL VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 442 BRAZIL VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 443 BRAZIL VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 444 BRAZIL VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 445 ARGENTINA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 446 ARGENTINA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 447 ARGENTINA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION



TABLE 448 ARGENTINA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 449 ARGENTINA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 450 ARGENTINA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 451 ARGENTINA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 452 ARGENTINA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 453 ARGENTINA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 454 ARGENTINA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 455 UAE VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 456 UAE VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 457 UAE VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 458 UAE VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 459 UAE VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 460 UAE VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 461 UAE VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 462 UAE VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 463 UAE VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 464 UAE VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 465 SAUDI ARABIA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 466 SAUDI ARABIA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 467 SAUDI ARABIA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT



TYPE, 2015 - 2018, USD MILLION

TABLE 468 SAUDI ARABIA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 469 SAUDI ARABIA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 470 SAUDI ARABIA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 471 SAUDI ARABIA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 472 SAUDI ARABIA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 473 SAUDI ARABIA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 474 SAUDI ARABIA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 475 SOUTH AFRICA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 476 SOUTH AFRICA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 477 SOUTH AFRICA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 478 SOUTH AFRICA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 479 SOUTH AFRICA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 480 SOUTH AFRICA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 481 SOUTH AFRICA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 482 SOUTH AFRICA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 483 SOUTH AFRICA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 484 SOUTH AFRICA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 485 NIGERIA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 486 NIGERIA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION



TABLE 487 NIGERIA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 488 NIGERIA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 489 NIGERIA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 490 NIGERIA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 491 NIGERIA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 492 NIGERIA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 493 NIGERIA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 494 NIGERIA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 495 REST OF LAMEA VARIABLE FREQUENCY DRIVE MARKET, 2015 - 2018, USD MILLION

TABLE 496 REST OF LAMEA VARIABLE FREQUENCY DRIVE MARKET, 2019 - 2025, USD MILLION

TABLE 497 REST OF LAMEA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2015 - 2018, USD MILLION

TABLE 498 REST OF LAMEA VARIABLE FREQUENCY DRIVE MARKET BY PRODUCT TYPE, 2019 - 2025, USD MILLION

TABLE 499 REST OF LAMEA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2015 - 2018, USD MILLION

TABLE 500 REST OF LAMEA VARIABLE FREQUENCY DRIVE MARKET BY POWER RANGE, 2019 - 2025, USD MILLION

TABLE 501 REST OF LAMEA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 502 REST OF LAMEA VARIABLE FREQUENCY DRIVE MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 503 REST OF LAMEA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2015 - 2018, USD MILLION

TABLE 504 REST OF LAMEA VARIABLE FREQUENCY DRIVE MARKET BY END USER, 2019 - 2025, USD MILLION

TABLE 505 KEY INFORMATION – ABB GROUP

TABLE 506 KEY INFORMATION – HITACHI, LTD.

TABLE 507 KEY INFORMATION – EATON CORPORATION PLC



TABLE 508 KEY INFORMATION - ROCKWELL AUTOMATION, INC.

TABLE 509 KEY INFORMATION - NIDEC CORPORATION

TABLE 510 KEY INFORMATION - SIEMENS AG

TABLE 511 KEY INFORMATION – SCHNEIDER ELECTRIC SE

TABLE 512 KEY INFORMATION – MITSUBISHI HEAVY INDUSTRIES LTD.

TABLE 513 KEY INFORMATION - FUJI ELECTRIC CO., LTD.

TABLE 514 KEY INFORMATION - THE DANFOSS GROUP



List Of Figures

LIST OF FIGURES

- FIG 1 METHODOLOGY FOR THE RESEARCH
- FIG 2 KBV CARDINAL MATRIX
- FIG 3 KEY LEADING STRATEGIES: PERCENTAGE DISTRIBUTION (2015-2019)
- FIG 4 KEY STRATEGIC MOVE: (PRODUCT LAUNCHES AND PRODUCT
- EXPANSIONS: 2015, JAN 2019, NOV) LEADING PLAYERS
- FIG 5 RECENT STRATEGIES AND DEVELOPMENTS: ABB GROUP
- FIG 6 SWOT ANALYSIS: ABB GROUP
- FIG 7 RECENT STRATEGIES AND DEVELOPMENTS: HITACHI, LTD.
- FIG 8 SWOT ANALYSIS: HITACHI, LTD.
- FIG 9 RECENT STRATEGIES AND DEVELOPMENTS: EATON CORPORATION PLC
- FIG 10 SWOT ANALYSIS: EATON CORPORATION PLC
- FIG 11 SWOT ANALYSIS: ROCKWELL AUTOMATION, INC.
- FIG 12 RECENT STRATEGIES AND DEVELOPMENTS: NIDEC CORPORATION
- FIG 13 SWOT ANALYSIS: NIDEC CORPORATION
- FIG 14 RECENT STRATEGIES AND DEVELOPMENTS: SIEMENS AG
- FIG 15 SWOT ANALYSIS: SIEMENS AG
- FIG 16 RECENT STRATEGIES AND DEVELOPMENTS: SCHNEIDER ELECTRIC SE
- FIG 17 SWOT ANALYSIS: SCHNEIDER ELECTRIC SE
- FIG 18 SWOT ANALYSIS: MITSUBISHI HEAVY INDUSTRIES LTD.
- FIG 19 RECENT STRATEGIES AND DEVELOPMENTS: THE DANFOSS GROUP



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