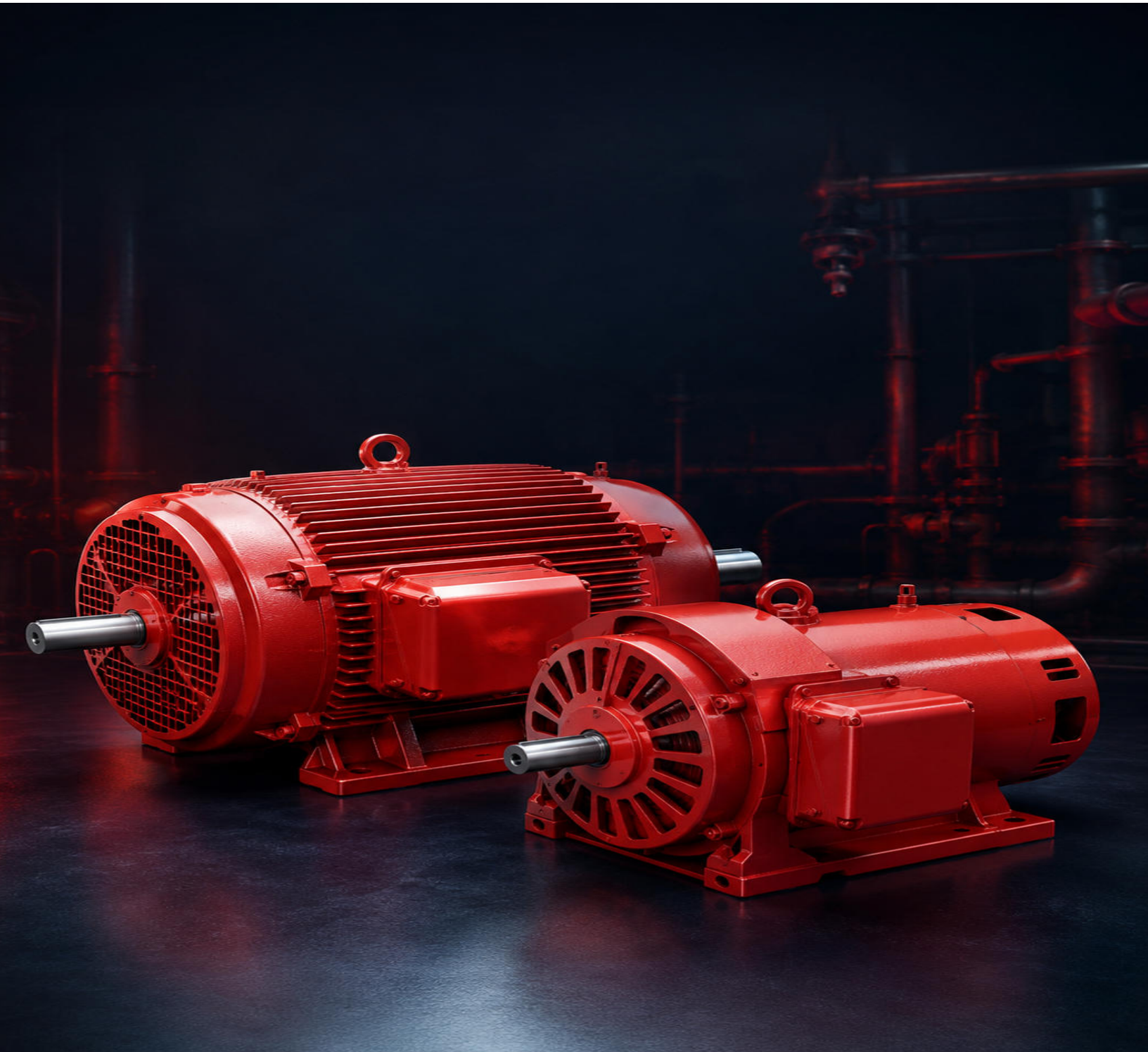




UL FIRE PUMP MOTORS IEC & NEMA

BROCHURE





ADD Group is a diversified technology group being built around a simple purpose "Adding Value to Life" ADDMOTION is the first operating vertical of the group, focused on industrial motion and electrical technologies. Alongside it, ADD Group envisions further verticals across artificial intelligence, agriculture, finance and asset management as the group grows.

ADD Group has a simple vision:

- Serve our customers according to their needs
- Offer the most efficient and long-lasting motors
- Commit to new technology and products
- Expand and diversify into new markets



NEMA FIRE PUMP MOTORS

UL LISTED

APPLICATIONS

For use on pumps designed for fire pump duty and installed per NFPA20.

DRIPPROOF, RIGID BASE

FEATURES

- UL File XXXX and CE Mark
- EPAct Efficiency
- Ball Bearings
- 1.15 SF
- Color Extinguisher Red
- NEMA Design B, Code G or Less
- 50C ambient temperature
- Dual voltage with 12 leads, suitable for wye-delta or across the line start at either voltage, or part winding start at low voltage.
- Single voltage with 12 leads, suitable for wye-delta, across the line, or part winding start.
- 60Hz, 230/460V, 200/400V, 380V, 460V, and 575V available.
- 50Hz, 380-400-415V, 190/380V, 200/400V, 380v, and 415V available

OTHER OPTIONS

- C-Face, P-Base, JM and JP options
- Terminal blocks
- Space heaters
- Winding temperature sensors
- Bearing temperature sensors
- Special voltage combinations



TEFC, RIGID BASE

FEATURES

- UL File XXXX and CE Mark
- EPAct Efficiency
- Ball Bearings
- 1.15 SF
- Color Extinguisher Red
- NEMA Design B, Code G or Less
- 50C ambient temperature
- Dual voltage with 12 leads, suitable for wye-delta or across the line start at either voltage, or part winding start on low voltage.
- Single voltage with 12 leads, suitable for wye-delta, across the line, or part winding start.
- 60Hz, 230/460V, 200/400V, 380V, 460V, and 575V available.
- 50Hz, 380-400-415, 190/380V, 200/400V, 380v, and 415V available

OTHER OPTIONS

- C-Face, P-Base, JM and JP options
- Terminal blocks
- Space heaters
- Winding temperature sensors
- Bearing temperature sensors
- Special voltage combinations



ADD

MOTION
INTELLIGENCE IN MOTION

IEC FIRE PUMP MOTORS

UL LISTED

APPLICATIONS

For use on pumps designed for fire pump duty and installed per NFPA20.

IP21, RIGID BASE

FEATURES

- UL File XXXX and CE Mark
- IE1, IE2 and IE3 Efficiencies
- Ball Bearings
- 1.15 SF
- Color Extinguisher Red
- Low stress winding
- 50C ambient temperature
- Dual voltage with 12 leads, suitable for wye-delta or across the line start at either voltage, or part winding start at low voltage.
- Single voltage with 12 leads, suitable for wye-delta, across the line, or part winding start.
- 60Hz, 230/460V, 200/400V, 380V, 460V, and 575V available.
- 50Hz, 380-400-415V, 190/380V, 200/400V, 380v, and 415V available

OTHER OPTIONS

- IE2 and IE3 Efficiencies
- IP22 and IP23 Enclosures
- C-Face, P-Base, JM and JP options
- Terminal Blocks
- Space heaters
- Winding temperature sensors
- Bearing temperature sensors
- Special voltage combinations



TEFC, RIGID BASE

FEATURES

- UL File XXXX and CE Mark
- IE1, IE2 and IE3 Efficiencies
- Ball Bearings
- 1.15 SF
- Color Extinguisher Red
- Low stress winding
- 50C ambient temperature
- Dual voltage with 12 leads, suitable for wye-delta or across the line start at either voltage, or part winding start at low voltage.
- Single voltage with 12 leads, suitable for wye-delta, across the line, or part winding.
- 60Hz, 230/460V, 200/400V, 380V, 460V, and 575V available.
- 50Hz, 380-400-425V, 190/380V, 200/400V, 380v, and 415V available

OTHER OPTIONS

- C-Face, P-Base, JM and JP options
- Terminal Blocks
- Space heaters
- Winding temperature sensors
- Bearing temperature sensors
- Special voltage combinations



IEC FIRE PUMP MOTORS

NON-UL

APPLICATIONS

For use on pumps designed for fire pump duty.

DRIPPROOF, RIGID BASE

FEATURES

- IE1, IE2 and IE3 Efficiencies
- Ball Bearings
- 1.15 SF
- Color Extinguisher Red
- Low stress winding
- Dual voltage with 12 leads, suitable for wye-delta or across the line start at either voltage, or part winding start at low voltage.
- Single voltage with 12 leads, suitable for wye-delta, across the line, or part winding start.
- 60Hz, 230/460V, 200/400V, 380V, 460V, and 575V available.
- 50Hz, 380-400-415V, 190/380V, 200/400V, 380v, and 415V available

OTHER OPTIONS

- C-Face, P-Base, JM and JP options
- Terminal Blocks
- Space heaters
- Winding temperature sensors
- Bearing temperature sensors
- Special voltage combinations
- 50C ambient temperature
- Special voltage combinations



TEFC, RIGID BASE

FEATURES

- IE1, IE2 and IE3 Efficiencies
- Ball Bearings
- 1.15 SF
- Color Extinguisher Red
- NEMA Design B, Code G or Less
- Dual voltage with 12 leads, suitable for wye-delta or across the line start at either voltage, or part winding start on low voltage.
- Single voltage with 12 leads, suitable for wye-delta, across the line, or part winding start on low voltage.
- 60Hz, 230/460V, 200/400V, 380V, 460V, and 575V available.
- 50Hz, 380-400-415V, 190/380V, 200/400V, 380v, and 415V available

OTHER OPTIONS

- C-Face, P-Base, JM and JP options
- Terminal Blocks
- Space heaters
- Winding temperature sensors
- Bearing temperature sensors
- Special voltage combinations
- 50C ambient temperature



VERTICAL SOLID SHAFT

UL LISTED

APPLICATIONS

For use on pumps designed for fire pump duty and installed per NFPA20.

FEATURES

- Need Data

OTHER OPTIONS

- Need Data

VERTICAL HOLLOW SHAFT

UL LISTED

APPLICATIONS

For use on pumps designed for fire pump duty and installed per NFPA20.

WPI FEATURES

- Need Data

OTHER OPTIONS

- Need Data

MEDIUM VOLTAGE

UL LISTED

APPLICATIONS

For use on pumps designed for fire pump duty and installed per NFPA20.

NEMA/IEC FEATURES

- Need Data

OTHER OPTIONS

- Need Data



CODES & CERTIFICATIONS

FIRE PUMP SYSTEM – A fire pump system is part of a fire sprinkler system's water supply either connected to the public underground water supply piping, or a static water source.

A fire pump system is tested and listed for its use specifically for fire service by a third-party accredited testing and listing laboratory, such as FM, LPCB, UL, VdS. Additionally, installation of fire pump systems is coordinated by Comité Européen Des Assurances in Europe and the National Fire Protection Code in the U.S.

FIRE PUMP MOTORS – A fire pump motor is a definite purpose motor designed to meet *UL Standard of Safety 1004-1 Rotating Electrical Machines - General Requirements - and UL 1004-5 Fire Pump Motors*. These motors are designed and built with a low KVA code to reduce inrush currents, offer extended life, and are tested to meet the highest standards in the industry.

Fire pump motors consist of low voltage NEMA Open Dripproof motors, NEMA JM/JMV/JP/JPV Close-Coupled pump motors, NEMA vertical solid shaft P-base motors, NEMA vertical hollow shaft motors, NEMA Totally Enclosed motors. We manufacture a line of low voltage IEC Totally Enclosed motors and Marine Duty IEC Totally Enclosed motors. These motors carry the UL mark and file number for fire pump motors. Additionally, we manufacture a line of low voltage IEC non-UL motors in IE1, IE2, and IE3 efficiencies for Europe, certain areas of the Middle East, Asia, Africa, and portions of Latin America.

UL also define requirements for fire pump motors above 500 HP and greater than 600 volts, ADD markets a line of high efficiency 2300V, 4160V and 7.2kV NEMA and IEC open motors for fire pump applications. These motors meet the same high standards as ADDMOTION low voltage UL listed motors.

COMITÉ EUROPÉEN DES ASSURANCES (CEA) – Insurance Europe (known as *Comité Européen des Assurances* until March 2012) is the European insurance and reinsurance federation. Through its 34 member bodies — the national insurance associations — it represents all types of insurance and reinsurance undertakings. *Standard CEA 4046 – CEA Rules for the approval of Installers of Fire Fighting Systems in accordance with CEA 4046* covers the installation of fire pump systems.

FACTORY MUTUAL (FM) – Factory Mutual specializes in loss prevention services throughout the world in the Highly Protected Risk (HPR) property insurance market sector. The company employs a business model whereby risk and premiums are determined by engineering analysis as opposed to historically based actuarial calculations. FM engineering personnel regularly visit insured locations to evaluate hazards and recommend improvements.

FM Approved fire pump packages are produced using components that have been subjected to rigorous tests to ensure that they will perform when called upon throughout the duration of a fire event. A FM Approved fire pump system will test the driver (motor, diesel or steam), pump and controller as a system to assure the performance

characteristics of the system meet the protection requirements for the property.

LOSS PREVENTION CERTIFICATION BOARD (LPCB) – The LPCB has been working with industry and government for more than 100 years to set the standards necessary to ensure that fire and security products and services work effectively.

In that time the LPCB Mark has become an internationally recognized mark of trust. Under the LPCB label, third-party certification and listing of fire and security products and services are available, so that: architects and specifiers can be sure that those they select will perform as required, and manufacturers and suppliers can demonstrate the quality of their products and services.

NATIONAL FIRE PROTECTION CODE 20 (NFPA 20) – *NFPA 20 – The Standard for Installation of Stationary Pumps for Fire Protection* codifies the requirements for safe electrical installations of a fire pump system into a single, standardized source. The NFPA 20 code covers water supply requirements, pump requirements, pump sizing, pump types, pump drivers, and accessory equipment such as valves and flow meters used in a fire pump system. It is part of the National Fire Codes series published by the National Fire Protection Association (NFPA), and while not itself a U.S. law, NEC use is commonly mandated by state or local law.

UNDERWRITERS LABORATORY – Underwriters Laboratories (UL) is a global independent safety science company with more than a century of expertise innovating safety solutions. UL helps safeguard people, products and places by certify, validating, testing, inspecting, auditing, advising, and educating. *The UL Mark is the single most accepted certification for fire pump systems and motors in the world.*

VDS 2095 – VdS is an independent institution which has been ensuring safety and trust in the fields of fire protection and security for many decades. The activities of VdS in the field of fire protection are targeted at the effectiveness and reliability of installed fire protection systems. The basis of the VdS approval process are the coordinated European specifications for installers of fire protection and security systems (CEA 4048 and CEA 4049) of the Comité Européen des Assurances (CEA). Furthermore, the approval process takes full account of the requirements of DIN 14675 with regard to the proof of competence of the installers (described in DIN 14675 as specialist companies). VdS is accredited for the certification of BMA installers by Deutsche Akkreditierungs GmbH (DAkkS) according to DIN EN 45011.





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APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by ADDMOTION Pvt Limited and/or its affiliates ("ADD") with respect to the use of products and components is given in good faith and without charge, and assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

