GE Power

Fire Pump Motors

Industrial Grade Reliability

143-5013 Frame
1-450 HP, 460V, 575V, 600V
3 Phase
50, 60, 50/60 Hz

Durable and Reliable Technology

ALL FIRE PUMP MOTORS ARE NOT BUILT THE SAME

Fully certified.

GE is authorized to manufacture fire pump motors per UL File E47088, Vol. 9, Sec. 1 (under Fire Pump QXZF and Inverter Duty PRHJ). A stainless steel embossed nameplate is bolted to each machine.

Guarding against corrosion.

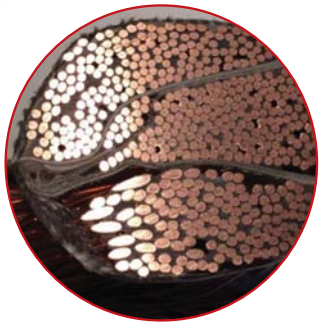
Fire pump motors sit dormant for many months of the year and may be subject to temperature and barometric changes, especially with outdoor applications. This environment causes condensation to collect on metal surfaces promoting corrosion and leading to unexpected failures. Optional space heaters can be wrapped around the winding coils. They work like an electric blanket transferring a small electric current into heat to keep the motor warm, dry and ready to start when operators need them most.

GEGARD™ Insulation offers added protection.

The Class H GEGARD insulation system is the result of insights gained in over 100 years of GE motor development in satisfying the electrical and mechanical needs of operators. It is designed to excel in severe environments and challenging applications where lesser designs often short circuit and cause overcurrent trips.

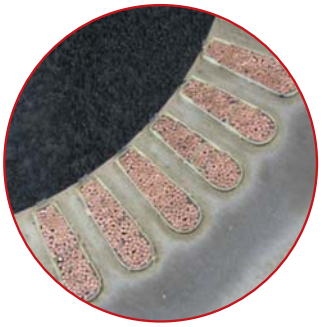
Rotational Varnish Application

Motor coils are rotationally varnished with a "Trickle Treat" process while an electric current is passed through the windings to ensure a penetrating, thorough and even coating. This proven process fills air gaps that could cause corona inception damage during operation.



Strong Bond

Resin penetrates deep into tightly packed coil wire creating a strong bond that guards against end-turn vibration.



High Protection

Contaminants can't penetrate carefully and tightly packed stator coils bonded by deep resin penetration into the slots.

Extensive Product Offering

50 AND 60 Hz. FOR HORIZONTAL AND VERTICAL CONFIGURATIONS

Applications

Specially designed for industrial and commercial pumping applications

- Horizontal Fire Pumps
- In-Line Fire Pumps
- End Suction Fire Pumps
- Vertical Fire Pumps

Standard Features

2, 4, 6 and 8 Pole Designs
VFD Capable
Cast iron frames
TEFC, TENV, ODP, WPI Enclosures
Cast iron bearing cap w/ recessed slinger
Ball bearings
1.15 Service Factor limited by UL1004-5
Class H Insulation
Class B temperature rise (80°C)
Continuous Duty (S1)
104°F (40°C) ambient temperature
3300ft (1000m) altitude
Stainless steel nameplates

Optional Features

Special voltages
Specially designed shaft
Space heaters
Thermistor, thermostats, or RTD's
Roller Bearings
Shaft grounding rings

60 Hz. Maximum Power in HP		Speed (RPM)							
NEMA Frame	IEC Frame	TEFC / TENV				ODP / WPI			
		3600	1800	1200	900	3600	1800	1200	900
143/145	90S/90L	2	2	1	1	3	2	1	1
182/184	112S/112M	5	5	2	1.5	7.5	5	2	1.5
213/215	132S/132M	10	10	5	3	15	10	5	3
254/256	160M/160L	20	20	10	7.5	25	20	10	7.5
284/286	180M/180L	30	30	20	15	40	30	20	15
324/326	200M/200L	50	50	30	25	60	50	30	25
364/365	225S/225M	75	75	50	40	100	75	50	40
404/405	250S/250M	100	100	75	60	150	125	75	60
444/445	280S/280M	150	150	125	100	250	250	150	100
447/449	280K/280H	300	300	250	200	450	450	300	250
509/5011/5013	315H/315F/315D	450	450	450	450	450	450	450	450

50 Hz. Maximum Power in HP		Speed (RPM)							
NEMA Frame	IEC Frame	TEFC / TENV				ODP / WPI			
		3000	1500	1000	750	3000	1500	1000	750
143/145	90S/90L	2	1.5	1	1	3	2	1	1
182/184	112S/112M	5	5	3	1.5	7.5	5	2	1.5
213/215	132S/132M	10	10	7.5	3	15	10	5	3
254/256	160M/160L	25	20	15	10	25	20	10	7.5
284/286	180M/180L	30	30	20	15	40	30	20	15
324/326	200M/200L	50	50	30	20	60	50	30	25
364/365	225S/225M	75	75	40	30	100	75	50	40
404/405	250S/250M	100	100	50	50	150	125	75	60
444/445	280S/280M	150	150	100	100	250	250	150	100
447/449	280K/280H	300	300	225	150	450	450	300	250
509/5011/5013	315H/315F/315D	450	450	450	450	450	450	450	450

Catalog Models

Vertical Hollow Shaft WPI Enclosure Standard Models											
HP	RPM	Hz	V	Model	Catalog #	Frame	Base Dia (in)	List w/NRR	Wgt (lbs)	CD dim (in)	Down Thrust (lbs)
15	1800	60	230/460	5KE254DAE6020	VF101	L254TP10	10	$ 3,115	266	23.38	2575
20	1800	60	230/460	5KE256DAE6020	VF102	L256TP12	12	$ 3,380	299	23.38	2575
25	1800	60	230/460	5KE284DAE6020	VF103	L284TP16	16.5	$ 3,868	399	24.75	2960
30	1800	60	230/460	5KE286DAE6020	VF104	L286TP16	16.5	$ 4,124	447	24.75	2960
40	1800	60	230/460	5KE324DAJ6020	VF105	L324TP16	16.5	$ 5,103	703	28.22	5700
50	1800	60	230/460	5KE326DAJ6020	VF106	L326TP16	16.5	$ 5,750	741	28.22	5700
60	1800	60	460 PWS	5KE364DAJ6020	VF107	L364TP16	16.5	$ 7,009	865	31.16	5700
75	1800	60	460 PWS	5KE365DAJ6020	VF108	L365TP16	16.5	$ 7,978	903	31.16	5700
100	1800	60	460 PWS	5KE404DAJ6020	VF109	L404TP16	16.5	$ 10,148	1311	36.94	6700
125	1800	60	460 PWS	5KE405DAJ6020	VF110	L405TP16	16.5	$ 12,145	1368	36.94	6700
150	1800	60	460 PWS	5KE444DAJ6020	VF111	L444TP16	16.5	$ 15,801	2246	44.78	13500
200	1800	60	460 PWS	5KE444DAJ6021	VF112	L444TP16	16.5	$ 19,662	2348	44.78	13500
250	1800	60	460 PWS	5KE445DAJ6021	VF113	L445TP16	16.5	$ 24,151	2417	44.78	13500
300	1800	60	460 PWS	5KE447DAJ6020	VF114	L447TP20	20	$ 28,039	2725	49.78	13300
350	1800	60	460 PWS	5KE447DAJ6021	VF115	L447TP20	20	$ 32,306	2947	49.78	13300
400	1800	60	460 PWS	5KE449DAJ6021	VF116	L449TP20	20	$ 35,283	3169	49.78	13300
450	1800	60	460 PWS	5KE449DAJ6022	VF117	L449TP20	20	$ 41,236	3186	49.78	13300

Services

CARING FOR YOUR NEEDS

At GE, we understand that the goals of your organization are demanding, and evolving. To help you meet these goals here at GE Power Conversion we provide a service that goes beyond just waiting for your call.

We offer a comprehensive range of aftermarket services including replacement units, field services spares, service agreements, unit upgrades and technical support. Our mission is to satisfy our customers aftermarket needs.

www.gepowerconversion.com

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