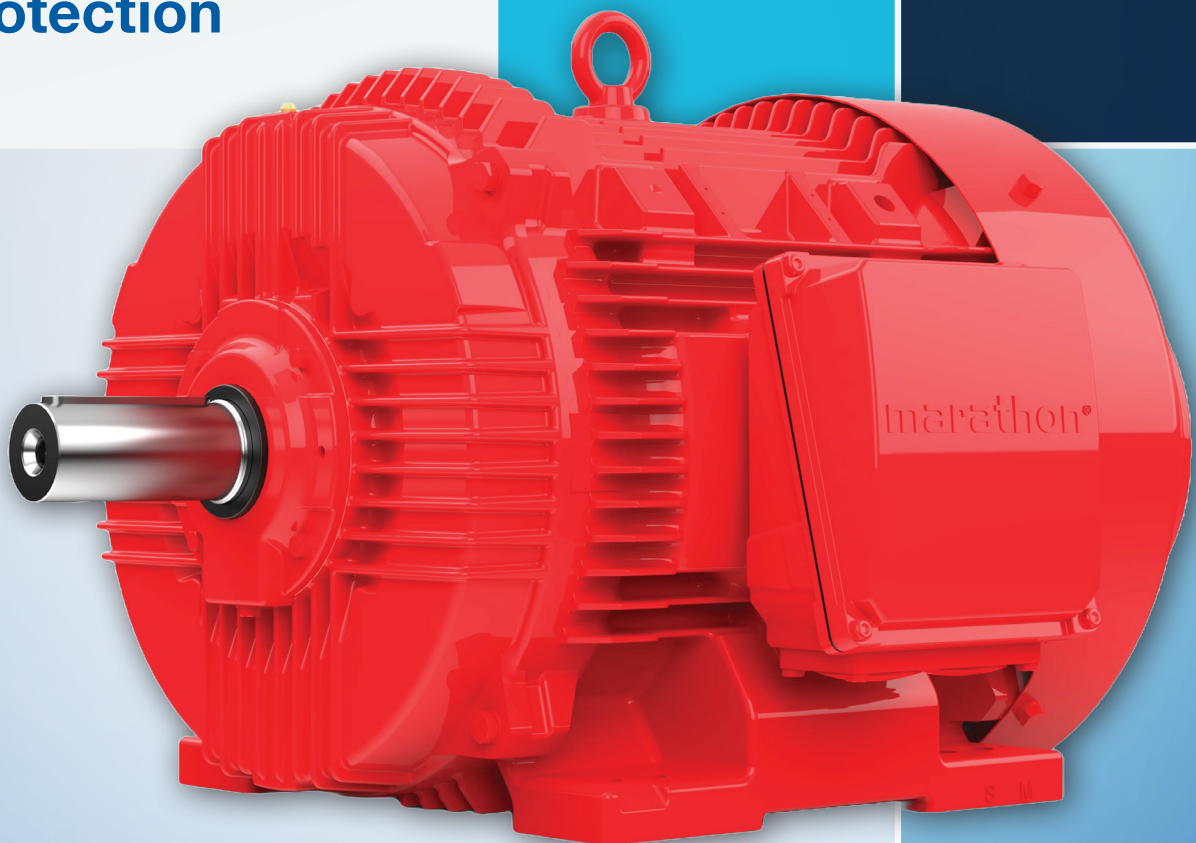


Marathon Firefighting Motors

Ensuring
**reliable fire
protection**



Industrial Motors

Commercial &
Appliance Motors

Automation

Digital &
Systems

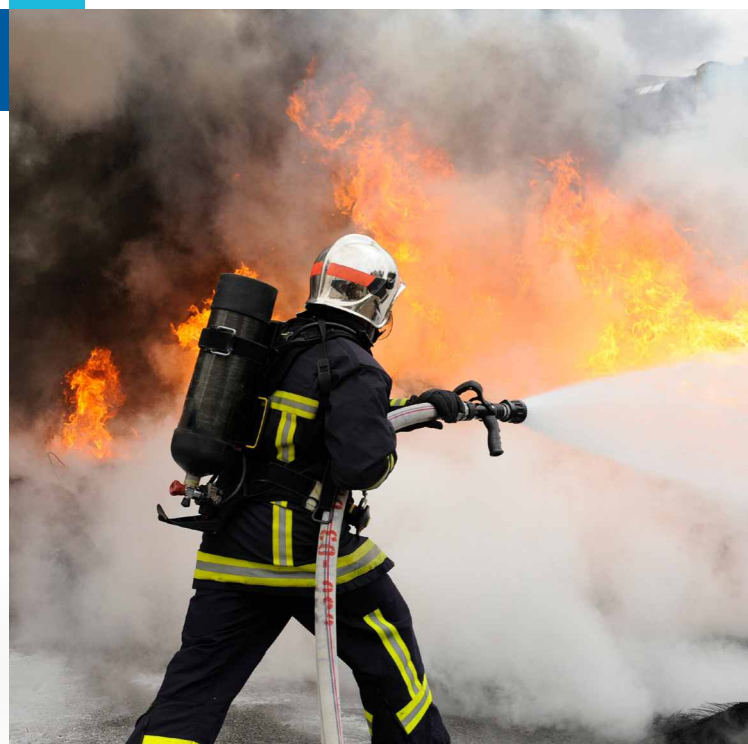
Energy

Transmission &
Distribution

Coatings

Welcome to
Marathon Motors

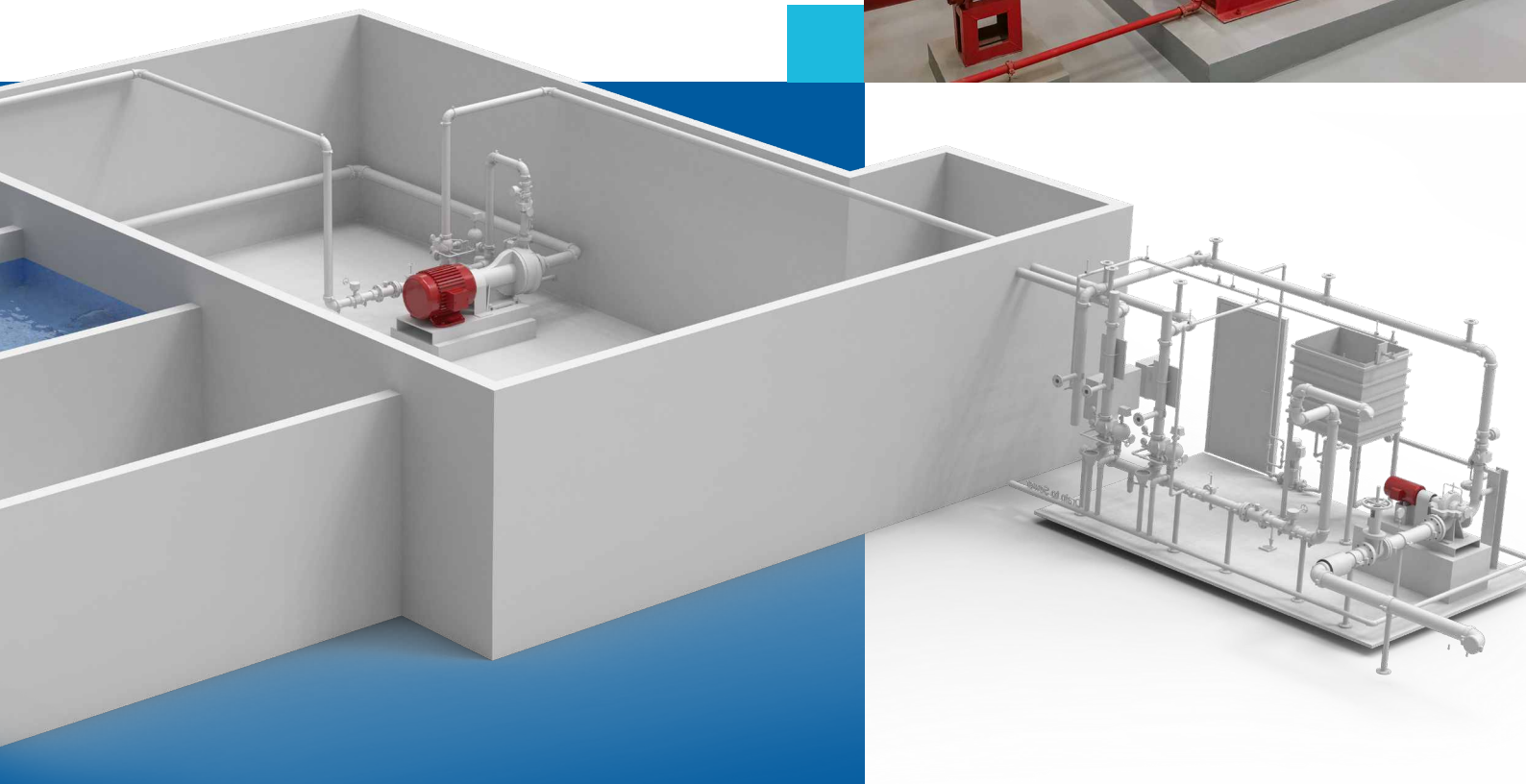
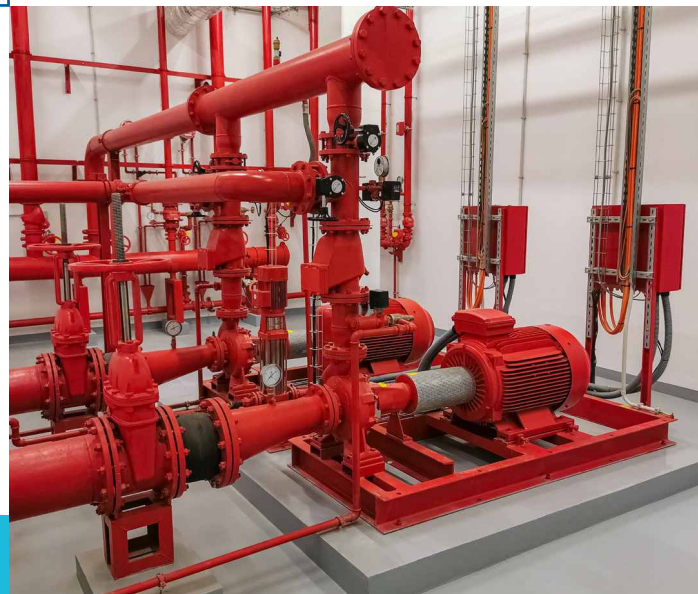
**Our firefighting motors
are engineered to deliver
unparalleled reliability
and performance under
the most demanding
conditions.**



Fire fighting motors are specialized electric motors designed to drive fire pumps that deliver water or fire-extinguishing agents to suppress fires.

Our Firefighting Motors are designed to deliver unmatched reliability and performance under the most challenging conditions. Precision-engineered to meet the high demands of emergency situations, these motors are essential in driving fire pumps that distribute water or fire-extinguishing agents swiftly and effectively to suppress fires.

Built to withstand tough environments, our motors offer the durability needed to handle intense heat, vibrations, and the extreme demands of large-scale firefighting. At Marathon Motors, we deliver products that adhere to strict standards, providing assurance and consistency when they are needed most, ensuring ongoing operation and the protection of property and lives.

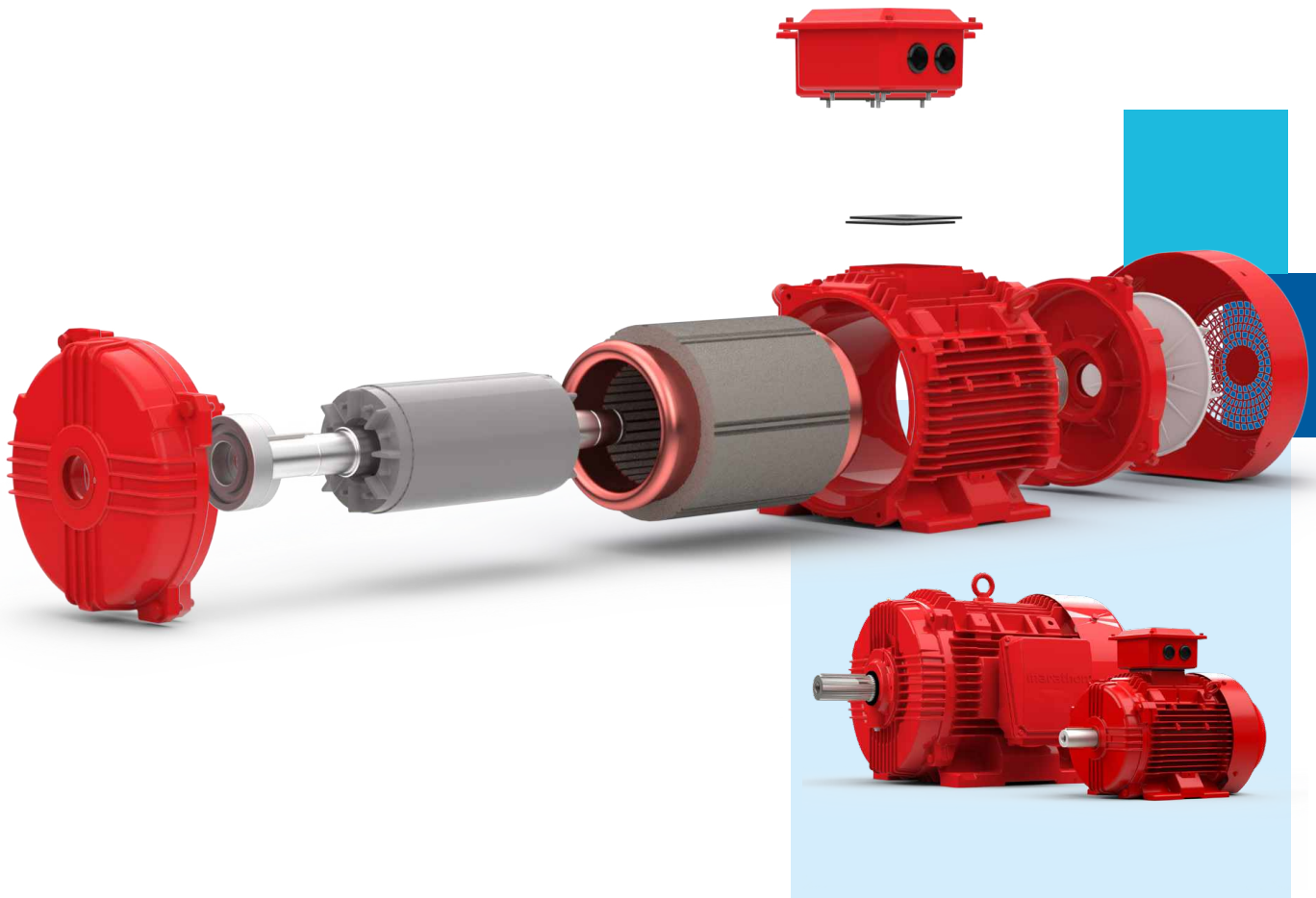


Protecting lives and property

These motors play a crucial role in fire protection systems, ensuring reliable operation under emergency conditions. They are typically part of a larger fire suppression system in commercial buildings, industrial facilities, and residential complexes.



Technical specifications of fire fighting motors



- Output: 5.5 kW to 160 kW (7.5 HP to 215 HP)
- Pole: 2 pole
- Frame: IEC® 112-280
- Standards: conforms to IS 12615 / IEC 60034
- Power supply: standard 415 V, 50 Hz (voltages 200 V to 690 V & frequency 60 Hz on request)
- Efficiency class: IE2, (for IE3 refer to engineering)
- Ambient: 50 °C (higher ambient on request)
- Construction: cast iron with integrally cast feet
- Terminal box: sheet metal up to 225, cast iron for 250 and above
- Connection: ≤ 3 kW: Star connection, > 3 kW: Delta connection
- Duty class – S1 (CMR)
- Protection: IP55 (higher degree protection class on request)
- Enclosure: TEFC
- Insulation: class F, temperature rise limited to class F
- Bearings: ball bearing
- Direction of rotation: bi-directional
- Fan: non sparking plastic with bi-directional (keyed and clamped to the shaft)
- Mounting: all standard mountings B3, B35, for other mounting refer to engineering
- Paint: RAL 3573 (post office red)
- Technical drawing: annotated drawing of the motor with labeled parts
- Background pattern: technical blueprint pattern to enhance the technical aspect
- Outline drawing: refer to engineering
- Fire pump motors should not be used with variable frequency power supplies, due to the critical nature of these applications
- Motors are suitable for operating on DG set

Performance data of firefighting motors

50 Hz / 50 C°												
Frame	Rated (kW)	Speed (rpm)	FLA	FLA	FLA	Power factor	%η	%η	%η	Starting current I _{lr} /I _{rated}	Starting torque T _{lr} /T _{rated}	Breakdown torque T _{bd} /T _{rated}
			@ 380 V	@ 400 V	@ 415 V		100%	75%	50%	p.u.	p.u.	p.u.
2 poles												
112M	5,5	2878	10,5	10,0	9,6	0,92	87,0	87,0	86,0	7,7	3,5	3,5
112M	7,5	2903	14,2	13,5	13	0,91	88,1	88,1	87,0	7,7	2,5	3,4
132M	9,3	2904	16,9	16,1	15,47	0,94	88,9	88,9	90,2	7,7	2,9	3,5
132M	11	2910	20,1	19,1	18,4	0,93	89,4	89,4	87,5	8,0	3,2	3,7
132M	15	2902	27,5	26,0	25	0,93	90,3	90,3	89,5	8,0	3,1	3,7
160M	18,5	2947	33,0	32,0	31	0,91	90,9	90,9	90,0	7,5	2,3	3,3
160L	22	2937	40,4	38,4	37	0,91	91,3	91,3	90,0	7,7	2,5	3,3
180L	30	2943	54,6	51,9	50	0,92	92,0	92,0	91,5	6,5	2,5	3,2
180L	37	2957	68,3	64,8	62,5	0,89	92,5	92,5	92,2	7,0	2,2	3,3
200L	45	2968	83,7	79,5	76,6	0,88	92,9	92,9	92,0	6,4	1,9	3,0
225M	55	2965	100,5	95,5	92	0,89	93,6	93,6	92,5	6,2	1,9	2,9
225M	60	2968	109,8	104,3	100,5	0,89	93,4	93,2	92,5	6,2	2,0	3,0
250M	75	2972	135,4	128,7	124	0,90	93,8	93,8	92,2	6,5	2,0	3,1
250M	90	2971	163,0	154,5	149	0,90	94,1	94,0	93,0	6,5	1,9	2,9
250M	110	2973	198,0	188,0	181,0	0,90	94,1	93,5	93,0	6,5	1,8	2,9
280M	110	2976	195,0	185,0	178,5	0,91	94,3	94,3	93,7	6,9	2,1	3,0
280M	125	2981	226,0	215,0	207,0	0,89	94,5	94,5	94,0	7,7	2,2	3,3
280M	132	2981	238,0	226,5	218,0	0,89	94,6	94,6	94,0	7,0	2,0	3,0
280M	150	2981	270,5	257,0	247,5	0,89	94,7	94,7	94,0	7,7	2,2	3,4
280M	160	2980	285,0	271,0	261,0	0,90	94,8	94,8	94,2	7,0	2,0	3,1

Key features of fire fighting motor



Durability

Built to withstand harsh environments and extreme conditions.



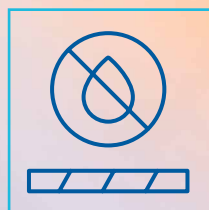
Reliability

Designed for consistent performance during emergencies.



High starting torque

Provides the necessary power to start and operate fire pumps efficiently.



Corrosion resistance

Made with materials that resist corrosion to ensure longevity.



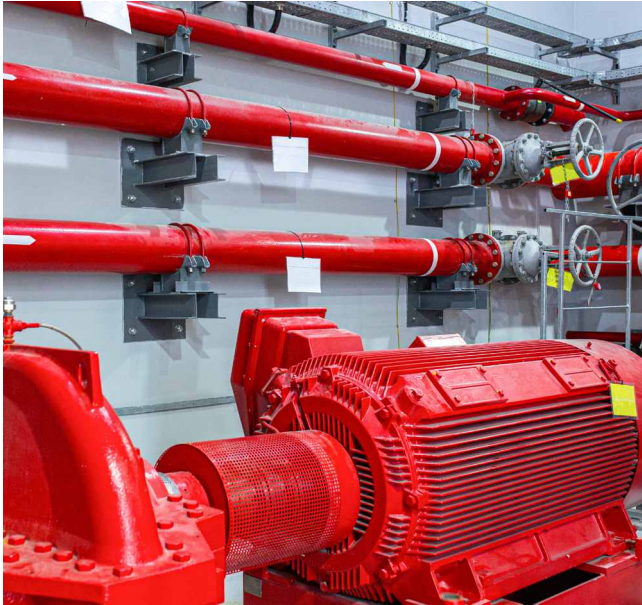
IP rating

High ingress protection (IP55) rating to protect against dust and water ingress.



Applications of fire fighting motors

Versatile and essential



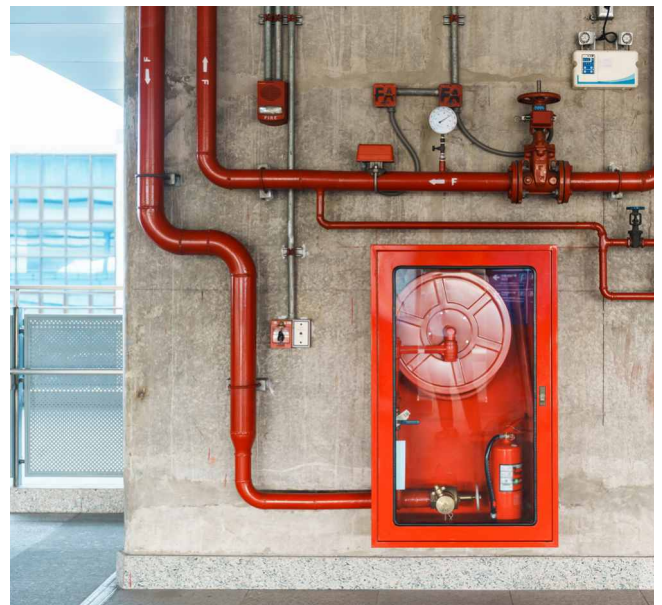
Commercial buildings



Industrial facilities (safe area)



Residential complexes



Public/private infrastructure

Certification 

The scope of WEG Group solutions
is not limited to products and solutions
presented in this catalogue.

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The values shown are subject to change without prior notice.
The information contained is reference values.