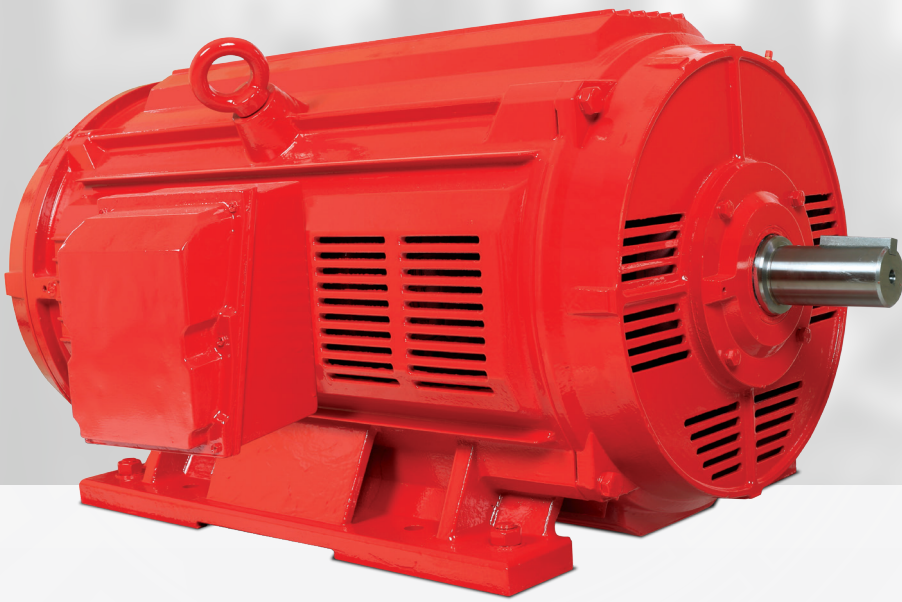




FIRE PUMP MOTORS

OPEN DRIP PROOF



BUILT TO SERVE



FIRE PUMP MOTORS

National Motors' NMCM Series consists of motors designed for fire pump applications as specified in NFPA 20 (Standard for the Installation of Stationary Pumps for Fire Protection). They are certified by UL as per the requirements of UL 1004-5 'Standard for Fire Pump Motors'. These three phase horizontal low-voltage squirrel-cage medium induction motors are constructed and manufactured as per the requirements of NEMA MG 1 standard Design B.

With Open Drip Proof enclosures, they provide best possible ventilation suitable for environments having minimal airborne contaminants and better cooling that contribute to the most efficient performance available from these motors.

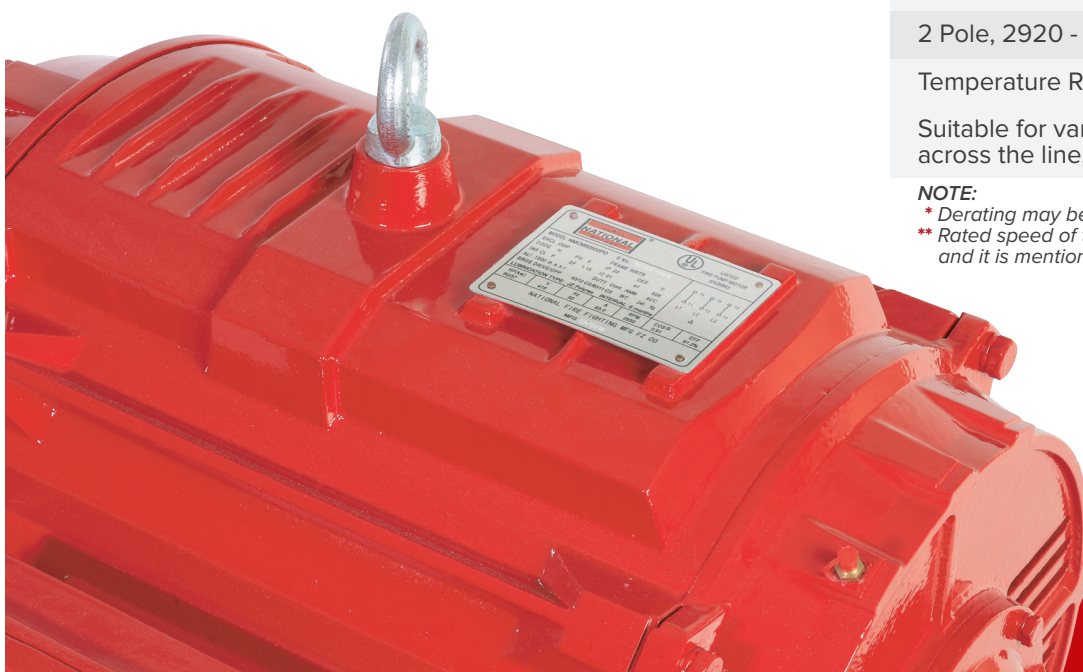
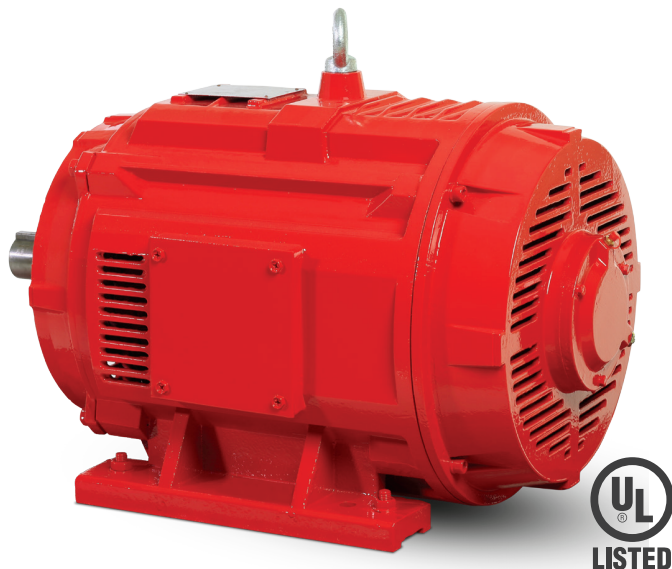
FEATURES

15 to 350 horse power rating
400 – 415 voltage rating at 50 hertz
NEMA Energy efficient design
1.15 Service Factor
Class F insulation
50 °C Ambient Temperature rating*
Regreasable Ball Bearing
Cast Iron construction frame
Frame size from 254T to 449TS
UL File No. EX26863
Stainless Steel name plate
RAL 3000 Standard red painted
IP23 Degree of Protection
Locked Rotor indicating code letter: H
Altitude rating of 1000 meters above sea level*
F1 foot mounting
2 Pole, 2920 - 2945 rpm speed**
Temperature Rise below Class B (80 K)
Suitable for various standard starters such as across the line, wye-delta, soft starter etc.

NOTE:

* Derating may be required for higher values.

** Rated speed of the motor varies depending on motor size and it is mentioned on the next page.





PERFORMANCE DATA

Approved Ratings (50 HZ)

MODEL - NMCM50152PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	254T	15	2920	400 - 415	19.7	1.15	2	3	F	50
V.2	254T	15	2925	400 - 415	20.5	1.15	2	3	F	50

MODEL - NMCM50202PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	256T	20	2920	400 - 415	25.9	1.15	2	3	F	50
V.2	256T	20	2925	400 - 415	27.0	1.15	2	3	F	50

MODEL - NMCM50252PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	284TS	25	2930	400 - 415	31.9	1.15	2	3	F	50
V.2	284TS	25	2935	400 - 415	33.6	1.15	2	3	F	50

MODEL - NMCM50302PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	286TS	30	2930	400 - 415	38.1	1.15	2	3	F	50
V.2	286TS	30	2935	400 - 415	39.6	1.15	2	3	F	50

MODEL - NMCM50402PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	286TS	40	2925	400 - 415	50.5	1.15	2	3	F	50
V.1	324TS	40	2930	400 - 415	50.6	1.15	2	3	F	50
V.2	286T	40	2935	400 - 415	52.3	1.15	2	3	F	50
V.2	324TS	40	2937	400 - 415	51.7	1.15	2	3	F	50

MODEL - NMCM50502PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	324TS	50	2930	400 - 415	61.3	1.15	2	3	F	50
V.1	326TS	50	2930	400 - 415	63	1.15	2	3	F	50
V.2	324T	50	2935	400 - 415	64.3	1.15	2	3	F	50
V.2	326TS	50	2935	400 - 415	64.3	1.15	2	3	F	50

MODEL - NMCM50602PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	364TS	60	2930	400 - 415	75.4	1.15	2	3	F	50
V.1	326TS	60	2935	400 - 415	75.8	1.15	2	3	F	50
V.2	364TS	60	2942	400 - 415	76.7	1.15	2	3	F	50
V.2	326TS	60	2940	400 - 415	77.6	1.15	2	3	F	50



PERFORMANCE DATA

MODEL - NMCM50752PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	364TS	75	2940	400 - 415	92.2	1.15	2	3	F	50
V.1	365TS	75	2940	400 - 415	93.6	1.15	2	3	F	50
V.2	364TS	75	2940	400 - 415	95.5	1.15	2	3	F	50
V.2	365TS	75	2940	400 - 415	95.5	1.15	2	3	F	50

MODEL - NMCM501002PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	365TS	100	2940	400 - 415	119.8	1.15	2	3	F	50
V.1	405TS	100	2940	400 - 415	124.5	1.15	2	3	F	50
V.2	365TS	100	2940	400 - 415	127.9	1.15	2	3	F	50
V.2	405TS	100	2942	400 - 415	126.5	1.15	2	3	F	50

MODEL - NMCM501252PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	404TS	125	2940	400 - 415	143.5	1.15	2	3	F	50
V.1	444TS	125	2940	400 - 415	155.3	1.15	2	3	F	50
V.2	404TS	125	2943	400 - 415	161.2	1.15	2	3	F	50
V.2	444TS	125	2945	400 - 415	159.4	1.15	2	3	F	50

MODEL - NMCM501502PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	405TS	150	2940	400 - 415	178.6	1.15	2	3	F	50
V.1	445TS	150	2940	400 - 415	182.9	1.15	2	3	F	50
V.2	405TS	150	2944	400 - 415	188.5	1.15	2	3	F	50
V.2	445TS	150	2950	400 - 415	186.4	1.15	2	3	F	50

MODEL - NMCM502002PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	447TS	200	2940	400 - 415	243	1.15	2	3	F	50
V.1	445TS	200	2945	400 - 415	258.2	1.15	2	3	F	50
V.2	447TS	200	2955	400 - 415	264.9	1.15	2	3	F	50
V.2	445TS	200	2955	400 - 415	264.9	1.15	2	3	F	50

MODEL - NMCM502502PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	449TS	250	2940	400 - 415	302	1.15	2	3	F	50
V.2	449TS	250	2940	400 - 415	308.3	1.15	2	3	F	50



PERFORMANCE DATA

MODEL - NMCM503002PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	447TS	300	2945	400 - 415	355	1.15	2	3	F	50
V.1	449TS	300	2945	400 - 415	355	1.15	2	3	F	50
V.2	447TS	300	2960	400 - 415	365.9	1.15	2	3	F	50
V.2	449TS	300	2970	400 - 415	365.9	1.15	2	3	F	50

MODEL - NMCM503502PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	447TS	350	2945	400 - 415	451.5	1.15	2	3	F	50
V.1	449TS	350	2945	400 - 415	451.5	1.15	2	3	F	50
V.2	447TS	350	2965	400 - 415	426.9	1.15	2	3	F	50
V.2	449TS	350	2970	400 - 415	426.9	1.15	2	3	F	50

MODEL - NMCM504002PO

Duty : Continuous

Design Ver.	Frame Size	Rated Output (Hp)	Speed (RPM)	Rated Voltage (v)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
V.1	449TS	400	2970	400 - 415	487.9	1.15	2	3	F	50

Approved Ratings (60 HZ)

MODEL - NMCM60152PO

Duty : Continuous

Rated Voltage (v)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
208 - 230	254T	15	3540	39.3 - 35.6	1.15	2	3	F	50
380 - 400	254T	15	3540	18	1.15	2	3	F	50
460	254T	15	3540	17.8	1.15	2	3	F	50

MODEL - NMCM60202PO

Duty : Continuous

Rated Voltage (v)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
208 - 230	256T	20	3530	51.4 - 46.5	1.15	2	3	F	50
380 - 400	256T	20	3530	23.6	1.15	2	3	F	50
460	256T	20	3530	23.2	1.15	2	3	F	50

MODEL - NMCM60252PO

Duty : Continuous

Rated Voltage (v)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
208 - 230	284TS	25	3550	63.8 - 57.7	1.15	2	3	F	50
380 - 400	284TS	25	3550	29.5	1.15	2	3	F	50
460	284TS	25	3550	28.8	1.15	2	3	F	50

MODEL - NMCM60302PO

Duty : Continuous

Rated Voltage (v)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
208 - 230	286TS	30	3550	75.7 - 68.4	1.15	2	3	F	50
380 - 400	286TS	30	3550	35.4	1.15	2	3	F	50
460	286TS	30	3550	34.2	1.15	2	3	F	50



PERFORMANCE DATA

MODEL - NMCM60402PO

Duty : Continuous

Rated Voltage (V)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
208 - 230	324TS	40	3560	101.3 - 91.6	1.15	2	3	F	50
380 - 400	324TS	40	3560	46.2	1.15	2	3	F	50
460	324TS	40	3560	45.8	1.15	2	3	F	50

MODEL - NMCM60502PO

Duty : Continuous

Rated Voltage (V)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
208 - 230	326TS	50	3560	124.4 - 112.5	1.15	2	3	F	50
380 - 400	326TS	50	3560	57.5	1.15	2	3	F	50
460	326TS	50	3560	56.2	1.15	2	3	F	50

MODEL - NMCM60602PO

Duty : Continuous

Rated Voltage (V)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
208 - 230	364TS	60	3560	149.9 - 135.6	1.15	2	3	F	50
380 - 400	364TS	60	3560	68.8	1.15	2	3	F	50
460	364TS	60	3560	67.8	1.15	2	3	F	50

MODEL - NMCM60752PO

Duty : Continuous

Rated Voltage (V)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
208 - 230	365TS	75	3560	185.4 - 167.6	1.15	2	3	F	50
380 - 400	365TS	75	3560	84.2	1.15	2	3	F	50
460	365TS	75	3560	83.8	1.15	2	3	F	50

MODEL - NMCM601002PO

Duty : Continuous

Rated Voltage (V)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
208 - 230	365TS	100	3570	247.1 - 223.5	1.15	2	3	F	50
380 - 400	365TS	100	3570	113.6	1.15	2	3	F	50
460	365TS	100	3570	111.7	1.15	2	3	F	50

MODEL - NMCM601252PO

Duty : Continuous

Rated Voltage (V)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
380 - 400	444TS	125	3575	141.7	1.15	2	3	F	50
460	444TS	125	3575	139	1.15	2	3	F	50

MODEL - NMCM601502PO

Duty : Continuous

Rated Voltage (V)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
380 - 400	445TS	150	3575	166.9	1.15	2	3	F	50
460	445TS	150	3575	165	1.15	2	3	F	50



PERFORMANCE DATA

MODEL - NMCM602002PO

Duty : Continuous

Rated Voltage (V)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
380 - 400	447TS	200	3575	235.7	1.15	2	3	F	50
460	447TS	200	3575	219.9	1.15	2	3	F	50

MODEL - NMCM602502PO

Duty : Continuous

Rated Voltage (V)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
380 - 400	449TS	250	3575	275.6	1.15	2	3	F	50
460	449TS	250	3575	227.7	1.15	2	3	F	50

MODEL - NMCM603002PO

Duty : Continuous

Rated Voltage (V)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
380 - 400	449TS	300	3580	324	1.15	2	3	F	50
460	449TS	300	3580	326	1.15	2	3	F	50

MODEL - NMCM603502PO

Duty : Continuous

Rated Voltage (V)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
380 - 400	449TS	350	3580	412.1	1.15	2	3	F	50
460	449TS	350	3580	388.5	1.15	2	3	F	50

MODEL - NMCM604002PO

Duty : Continuous

Rated Voltage (V)	Frame Size	Rated Output (Hp)	Speed (RPM)	Full Load Current (A)	Service Factor	No. of Poles	Phases	Insulation Class	Rated Ambient Temp (°C)
380 - 400	449TS	400	3580	544.1	1.15	2	3	F	50
460	449TS	400	3580	449.5	1.15	2	3	F	50



Designed as per **NEMA MG1**
Tested as per **UL 1004-5**
Installed as per **NFPA 20**

NAFFCO

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In line with NAFFCO policy for continuous product development,
NAFFCO has the right to change specifications without prior notice.