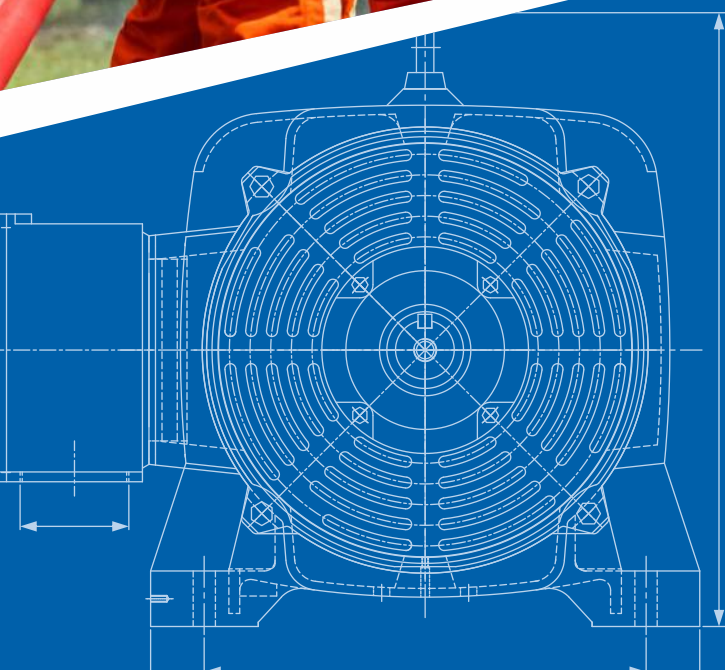


NF-M SERIES



FIRE PUMP MOTORS



60Hz

www.northam-inc.com

FIRE PUMP MOTORS

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FIRE PUMP MOTORS

15 HP to 300 HP

GENERAL DATA

3 PHASE

PREFACE

The NF-M fire pump motors are Open Drip Proof (ODP) type electric motor specifically designed and UL listed for fire pump applications in accordance with NFPA 20 and UL 1004-5. Robust design in construction with cast iron frames and featured with class-F insulation for durability. These motors are built for continuous duty with 1.15 Service Factor and comes in various horsepower ratings.

FEATURES

- ▶ Motors are fitted with dynamically balanced aluminum die cast squirrel rotors.
- ▶ Excellent cooling due to ODP construction.
- ▶ High Efficiency Fire Pump motors complying to 10 CFR Part 31 Subpart B.
- ▶ Reliable operation.
- ▶ Easy maintenance.

SPECIFICATIONS

Motor type	NEMA standard induction motor
Frequency	60 Hz
Motor ratings	3 phase - 15 to 300 HP
Voltages	3 phase : 230, 380-400 and 460 volts
Pole/RPM	2 Pole / 3500 RPM
Enclosure	ODP (Open Drip Proof)
Insulation class	Class 'F' and temperature rise limited to class 'B'
Degree of protection	IP 23
Duty / Rating	S1 / Continuous
Ambient temperature	122°F / 50°C
Altitude	Should be lower than 3300 feet (1000 metres) above sea level
Direction of rotation	Direction can be both Anticlockwise or Clockwise.

NOTE: SPECIFICATIONS ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

FIRE PUMP MOTORS

15 HP to 200 HP

MODEL CODE

3 PHASE

NF

M

015

2

T

215T

B

NEMA design rating

Code	Rating
B	B

Frame size

Enclosure

Code	Type
T	TEFC
C	ODP

Pole

Code	Pole
2	2
4	4
6	6

Motor HP

Code	HP
015	15 HP
200	200 HP

Motor type

Code	Type
M	Three phase motor

Series name

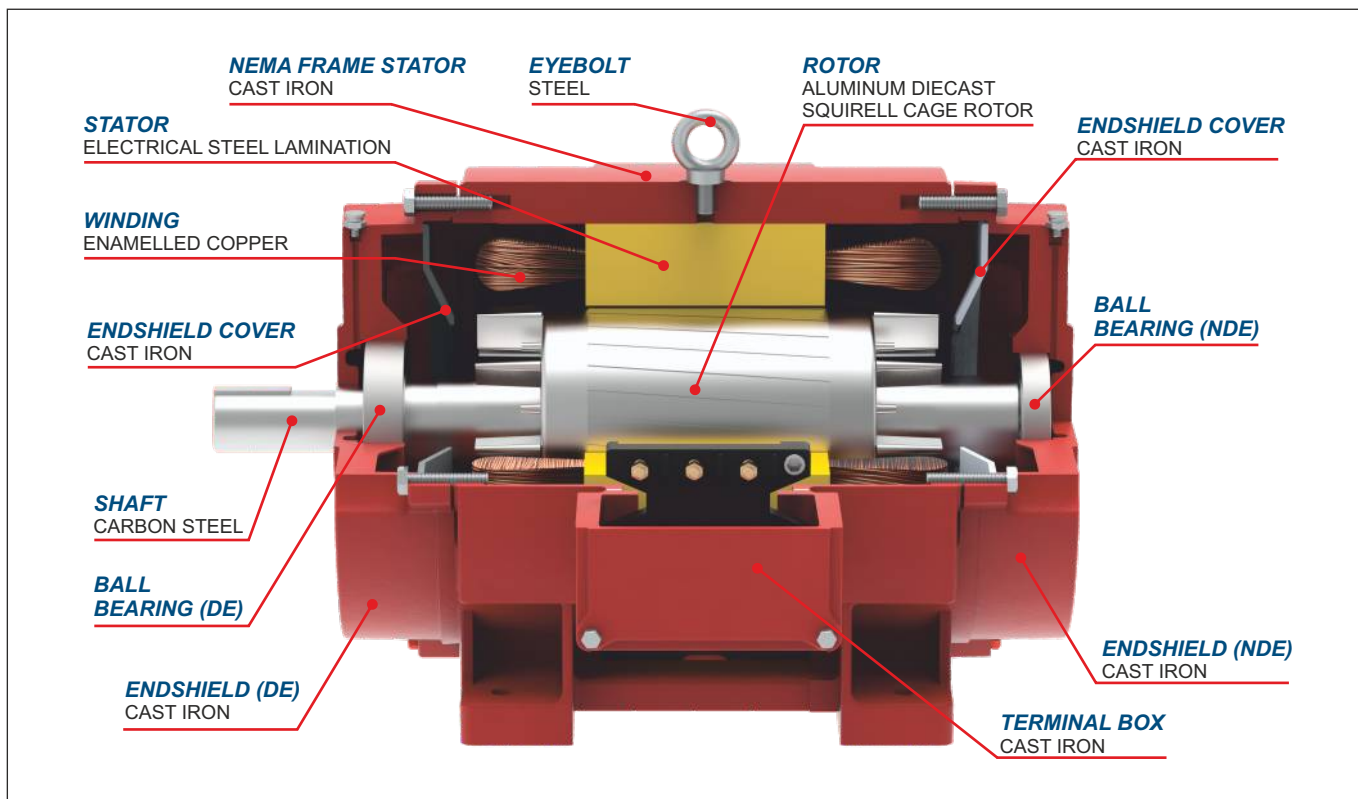
Code	Series
NF	Fire pumps - UL

FIRE PUMP MOTORS

15 HP to 300 HP

MATERIAL OF CONSTRUCTION

3 PHASE



15 HP to 300 HP

ORDER INFORMATION

3 PHASE

HP	POLE	ENCLOSURE	FRAME SIZE	NEMA DESIGN RATING	ORDER NO. / MODEL CODE
15	2	ODP	256T	B	NF-M-015-2-C-256T-B
20	2	ODP	256T	B	NF-M-020-2-C-256T-B
25	2	ODP	256T	B	NF-M-025-2-C-256T-B
30	2	ODP	286TS	B	NF-M-030-2-C-286TS-B
40	2	ODP	286TS	B	NF-M-040-2-C-286TS-B
50	2	ODP	326TS	B	NF-M-050-2-C-326TS-B
60	2	ODP	326TS	B	NF-M-060-2-C-326TS-B
75	2	ODP	365TS	B	NF-M-075-2-C-365TS-B
100	2	ODP	365TS	B	NF-M-100-2-C-365TS-B
125	2	ODP	405TS	B	NF-M-125-2-C-405TS-B
150	2	ODP	405TS	B	NF-M-150-2-C-405TS-B
200	2	ODP	445TS	B	NF-M-200-2-C-445TS-B
250	2	ODP	449TS	B	NF-M-250-2-C-449TS-B
300	2	ODP	449TS	B	NF-M-300-2-C-449TS-B

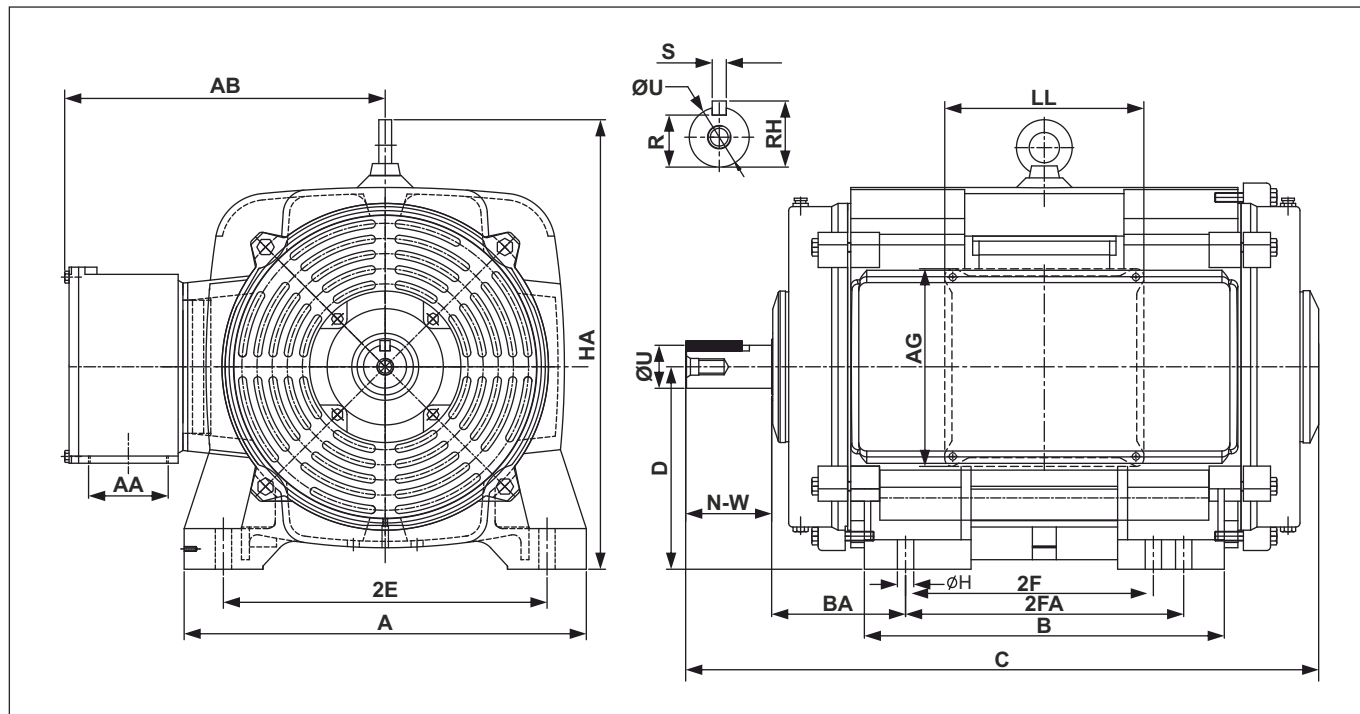
FIRE PUMP MOTORS

15 HP to 300 HP

DIMENSIONS

3 PHASE

Foot mount - NEMA - ODP



	FRAME SIZE						
	256T	286TS	326TS	365TS	405TS	445TS	449TS
2E	10.00	11.00	12.50	14.00	16.00	18.00	18.00
A	12.20	13.70	15.04	17.01	19.88	21.97	21.85
AB	10.83	11.18	12.20	15.87	15.87	20.08	21.06
HA	14.69	16.02	18.07	21.22	22.20	25.91	26.30
AG	6.69	6.69	7.40	9.76	9.76	14.96	18.03
2F	10.00	11.00	12.00	11.25	12.25	14.50	20.00
2FA	-	-	-	12.25	13.75	16.50	25.00
B	12.09	13.11	14.65	15.51	17.80	20.04	26.85
BA	4.25	4.75	5.25	5.88	6.62	7.50	7.50
ØU	1.62	1.62	1.87	1.87	2.13	2.37	2.37
N-W	4.00	3.25	3.75	3.75	4.25	4.75	4.75
S	0.37	0.37	0.50	0.50	0.50	0.63	0.63
R	1.42	1.42	1.59	1.59	1.85	2.02	2.02
RH	0.53	1.79	2.08	2.08	2.35	2.64	2.64
D	6.25	7.00	8.00	9.00	10.00	11.00	11.00
ØH	0.53	0.53	0.66	0.66	0.81	0.81	0.81
AA	2 nos. x M50 x 1.5 mm	2 nos. x M50 x 1.5 mm	2 nos. x M50 x 1.5 mm	1 no. x 3 inch	1 no. x 3 inch	2 nos. x 3 inch	2 nos. x 3 inch
C	22.28	23.50	26.30	27.87	31.30	36.22	43.15
LL	7.32	7.32	7.68	9.84	9.84	14.96	18.03

NOTE: ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE NOTED.

FIRE PUMP MOTORS

15 HP to 300 HP

PERFORMANCE DATA

3 PHASE

Foot mount - NEMA - ODP

HP	Hz	Frame Size	S.F.	U_N [V]	n_N [min ⁻¹]	I_{MAX} [FLA]	I_{MAX} [SFA]
15	60	256T	1.15	230	3510	36	40
15	60	256T	1.15	460	3510	18	20
15	60	256T	1.15	380-400	3516-3527	21-20	25-23
20	60	256T	1.15	230	3520	46	54
20	60	256T	1.15	460	3520	23	27
20	60	256T	1.15	380-400	3517-3527	28-27	33-31
25	60	256T	1.15	230	3520	56	64
25	60	256T	1.15	460	3520	28	32
25	60	256T	1.15	380-400	3512-3525	35-34	41-39
30	60	286TS	1.15	230	3540	72	82
30	60	286TS	1.15	460	3540	36	41
30	60	286TS	1.15	380-400	3526-3536	43-41	51-47
40	60	286TS	1.15	230	3540	96	108
40	60	286TS	1.15	460	3540	48	54
40	60	286TS	1.15	380-400	3532-3541	57-54	66-63
50	60	326TS	1.15	230	3550	114	132
50	60	326TS	1.15	460	3550	57	66
50	60	326TS	1.15	380-400	3555-3559	70-66	81-76
60	60	326TS	1.15	230	3550	142	164
60	60	326TS	1.15	460	3550	71	82
60	60	326TS	1.15	380-400	3552-3559	84-80	99-93
75	60	365TS	1.15	230	3560	168	192
75	60	365TS	1.15	460	3560	84	96
75	60	365TS	1.15	380-400	3565-3568	103-100	118-113
100	60	365TS	1.15	230	3560	230	260
100	60	365TS	1.15	460	3560	115	130
100	60	365TS	1.15	380-400	3550-3558	138-130	161-151
125	60	405TS	1.15	460	3560	138	160
125	60	405TS	1.15	380-400	3544-3550	168-160	198-185
125	60	405TS	1.15	230	3545	286	334
125	60	405TS	1.15	460	3545	143	167
150	60	405TS	1.15	460	3560	165	189
150	60	405TS	1.15	380-400	3536-3543	200-188	237-220
150	60	405TS	1.15	230	3547	330	382
150	60	405TS	1.15	460	3547	165	191
200	60	445TS	1.15	460	3570	227	262
200	60	445TS	1.15	380-400	3576-3577	276-263	317-302
200	60	445TS	1.15	230	3550	452	526
200	60	445TS	1.15	460	3550	226	263
250	60	449TS	1.15	460	3560	276	324
300	60	449TS	1.15	460	3565	326	374



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Product Improvement and changes are a continuous process at 'Northam'. The data given in this publication is therefore subject to revision.