Elektrim® Motors

Elektrim NEMA Premium® 31N Series All Purpose Motors

Peace-of-Mind Performance in Gas Environments and UL Recognized for Safety

1-50 HP 3PH TEFC 60 Hz NEMA AC Foot Mounted and C-Face Motors

Features

- Class I, Division II Group A,B,C,D Temp Code T3C
- Inverter Duty Rated: 10:1CT & 100:1VT
- Service Factor: up to 1.25
- Design: "B"
- Protection Degree: IP55
- Enclosure: TEFC Rigid Cast Iron Frame
- Warranty: 3-Years
- High locked rotor torque
- 230/460V 60Hz, usable at 208V 60Hz
- Double rated for 190/380V 50Hz
- Motors 213T and larger suitable for Y/delta starting and part winding starting
- Class "F" insulation with rise below Class "B"
- F1 / F2 Convertible
- CSA-US certified, UL Recognized, DOE Approved, CE and NEMA Premium marked

NEMA Premium

Energy Verified 254347

ISO 9001 CC025B

Applications

Ideal for a wide variety of industrial applications that require a premium efficient motor, such as fans & blowers, pumps, conveyors, crushers, compressors, mixers and more.

www.elektrimmotors.com or call **855-Go-Elektrim**

Maximum Performance in Your Toughest Industrial Applications

Part Number	HP	RPM	Frame	Torque			FLA				LRA	Efficiency			Power Factor			NEMA Design	SF	lbs
				FLT lb-ft	LRT %	BDT %	208V	230V	460V	575V	230V	FL	75%	50%	FL	75%	50%			
31NFM-3-1-18	1	1730	143T	3.0	290	310	3.1	2.8	1.4	1.1	21	86.5	86.5	82.5	78.0	71.5	58.5	B	1.25	52
31NFM-3-1-12		1140	145T	4.6	255	300	3.8	3.4	1.7	1.4	21	84.0	84.2	80.0	66.0	58.0	45.5	B	1.25	58
31NFM-3-1-9		865	182T	6.1	200	265	4.2	3.8	1.9	1.5	20	84	84.1	81	60	52	40.5	B	1.15	96
31NFM-3-1.5-36	1.5	3470	143T	2.3	250	310	4.2	3.8	1.9	1.5	32	85.5	85.5	83.5	88.5	84.0	75.5	B	1.25	52
31NFM-3-1.5-18		1730	145T	4.5	300	320	4.6	4.2	2.1	1.7	32	87.5	87.7	86.0	78.5	72.0	60.0	B	1.25	58
31NFM-3-1.5-12		1165	182T	6.8	270	280	5.3	4.8	2.4	1.9	35	87.5	87.8	85.5	68.0	60.0	46.0	B	1.25	96
31NFM-3-1.5-9		865	184T	9.1	200	300	6.2	5.6	2.8	2.3	31	84	84.2	82	60.5	51.5	41	B	1.15	106
31NFM-3-2-36	2	3475	145T	3.0	250	315	5.5	5.0	2.5	2.0	48	86.5	86.8	85.5	89.0	86.0	77.0	B	1.25	58
31NFM-3-2-18		1730	145T	6.1	300	340	6.2	5.6	2.8	2.3	43	87.5	87.7	85.5	78.0	71.0	60.0	B	1.25	58
31NFM-3-2-12		1165	184T	9.0	250	310	6.4	5.8	2.9	2.3	46	88.5	88.7	86.5	73.0	65.5	53.0	B	1.25	106
31NFM-3-2-9		865	213T	12.1	240	300	6.9	6.2	3.1	2.5	42	85.5	85.5	82	71	63	50	B	1.15	168
31NFM-3-3-36	3	3505	182T	4.5	210	290	8.0	7.2	3.6	2.9	64	88.5	88.7	87.0	90.0	87.0	80.0	B	1.25	96
31NFM-3-3-18		1745	182T	9.0	260	310	8.6	7.8	3.9	3.1	64	90.2	90.3	89.0	81.0	75.0	63.5	B	1.25	96
31NFM-3-3-12		1170	213T	13.5	240	300	9.5	8.6	4.3	3.5	60	89.5	89.7	87.0	75.0	66.5	53.0	B	1.25	168
31NFM-3-3-9		865	215T	18.2	220	300	10.2	9.2	4.6	3.7	58	85.5	85.5	83	72.5	64	51.5	B	1.15	192
31NFM-3-5-36	5	3505	184T	7.5	210	300	12.8	11.6	5.8	4.7	92	90.2	90.5	89.0	90.5	88.0	81.0	B	1.25	106
31NFM-3-5-18		1745	184T	15.1	260	300	14.2	12.8	6.4	5.1	92	90.2	90.4	89.1	82.5	77.0	66.0	B	1.25	106
31NFM-3-5-12		1170	215T	22.5	240	300	15.3	13.8	6.9	5.5	92	89.5	89.8	87.5	78.0	71.0	60.0	B	1.25	192
31NFM-3-5-9		875	254T	30	180	220	16.6	15	7.5	6	80	89.5	89.8	88.2	70	65.5	51	B	1.15	290
31NFM-3-7.5-36	7.5	3500	213T	11.3	200	270	19.9	18.0	9.0	7.2	127	90.2	90.5	89.5	88.0	85.5	79.0	B	1.25	168
31NFM-3-7.5-18		1750	213T	22.5	230	260	20.1	18.2	9.1	7.3	127	91.7	91.3	90.2	86.0	83.0	74.0	B	1.25	168
31NFM-3-7.5-12		1170	254T	33.7	200	240	22.3	20.2	10.1	8.1	127	91.7	92.0	91.5	77.0	72.0	61.5	B	1.25	290
31NFM-3-7.5-9		875	256T	45	180	220	25	22.6	11.3	9.1	110	89.5	89.8	88.5	70.5	66	52	B	1.15	325
31NFM-3-10-36	10	3500	215T	15.0	220	270	25.4	23.0	11.5	9.2	162	91.7	91.9	90.5	89.0	87.0	83.5	B	1.25	192
31NFM-3-10-18		1750	215T	30.0	225	255	26.3	23.8	11.9	9.5	162	91.7	91.9	90.5	87.0	84.0	75.0	B	1.25	192
31NFM-3-10-12		1170	256T	44.9	200	240	29.2	26.4	13.2	10.6	162	91.7	92.1	91.7	79.0	74.5	65.0	B	1.25	325
31NFM-3-10-9		880	284T	59.7	210	250	33.2	30	15	12	162	91	91.3	89.5	70	63	51	B	1.15	445
31NFM-3-15-36	15	3510	254T	22.5	210	270	38.3	34.6	17.3	13.8	232	91.0	91.0	90.2	91.0	90.0	86.0	B	1.25	290
31NFM-3-15-18		1760	254T	44.8	210	230	40.9	37.0	18.5	14.8	232	92.4	92.7	92.5	83.0	80.0	72.5	B	1.25	290
31NFM-3-15-12		1170	284T	67.3	210	230	42.9	38.8	19.4	15.5	232	92.4	92.6	91.3	80.0	75.5	66.3	B	1.15	430
31NFM-3-15-9		880	286T	89.6	200	230	46.9	42.4	21.2	17	232	91.7	92	91	73	66	54	B	1.15	475
31NFM-3-20-36	20	3510	256T	29.9	210	280	50.9	46.0	23.0	18.4	290	91.0	91.4	90.5	91.0	90.0	87.5	B	1.25	325
31NFM-3-20-18		1760	256T	59.7	220	235	54.2	49.0	24.5	19.6	290	93.0	93.4	91.5	83.5	79.5	71.5	B	1.25	325
31NFM-3-20-12		1170	286T	89.8	210	225	56.4	51.0	25.5	20.4	290	92.4	92.8	91.5	81.0	78.0	70.0	B	1.15	475
31NFM-3-20-9		880	324T	119.4	210	230	62.6	56.6	28.3	22.7	290	91.7	91.9	91	73	66.5	55	B	1.15	650
31NFM-3-25-36	25	3520	284TS	37.3	230	250	63.5	57.4	28.7	23.0	365	91.7	91.7	91.4	90.5	90.0	87.0	B	1.15	430
31NFM-3-25-18		1765	284T	74.4	200	220	66.3	60.0	30.0	24.0	365	93.6	93.8	93.2	84.0	81.0	73.0	B	1.15	445
31NFM-3-25-12		1175	324T	111.8	210	250	66.8	60.4	30.2	24.2	365	93.0	93.1	92.2	85.0	81.0	71.0	B	1.15	650
31NFM-3-25-9		880	326T	149.4	220	250	78.5	71	35.5	28.4	365	91.7	92.1	91	73	67	55	B	1.15	716
31NFM-3-30-36	30	3525	286TS	44.7	235	260	75.4	68.2	34.1	27.3	435	92.4	92.7	91.7	91.0	90.0	87.0	B	1.15	465
31NFM-3-30-18		1765	286T	89.3	200	230	79.6	72.0	36.0	28.8	435	93.6	93.9	92.5	84.0	81.5	75.0	B	1.15	475
31NFM-3-30-12		1175	326T	134.1	215	255	79.6	72.0	36.0	28.8	435	93.0	93.3	92.5	85.5	81.5	72.0	B	1.15	716
31NFM-3-30-9		880	364T	179.2	210	240	92	83.2	41.6	33.3	435	92.4	92.6	91.5	74	69	58	B	1.15	850
31NFM-3-40-36	40	3530	324TS	59.5	180	240	103.3	93.4	46.7	37.4	580	93.0	93.3	92.4	88.0	87.0	83.0	B	1.15	640
31NFM-3-40-18		1770	324T	118.7	200	215	104.8	94.8	47.4	38.0	580	95.0	95.3	94.4	84.5	82.0	76.0	B	1.15	650
31NFM-3-40-12		1180	364T	178.1	200	220	106.2	96.0	48.0	38.4	580	94.5	94.7	93.7	84.0	82.0	75.0	B	1.15	850
31NFM-3-40-9		880	365T	239	210	225	119.4	108	54	43.2	580	92.4	92.7	91.7	76	72.5	62.5	B	1.15	960
31NFM-3-50-36	50	3550	326TS	74.4	180	240	126.1	114	57.0	45.6	725	93.6	93.8	92.5	88.5	87.0	83.0	B	1.15	710
31NFM-3-50-18		1770	326T	148.4	200	220	130.5	118	59.0	47.2	725	95.0	95.3	94.5	84.5	82.5	75.0	B	1.15	716
31NFM-3-50-12		1180	365T	222.6	200	230	132.7	120	60.0	48.0	725	94.5	94.8	94.3	84.0	83.0	75.5	B	1.15	960
31NFM-3-50-9		880	404T	298.7	200	230	148.2	134	67	53.6	725	93	93.4	92.5	76	70	60	B	1.15	1402

C-Face part number prefix = 31NCM. Larger motors from 60-300HP and non-stock items may be available or can be special ordered. Motors can be modified from Footed to C-Face and vice versa.

SOLUTIONS TO MEET YOUR NEEDS

2015 S. Mitchell Blvd., Schaumburg, IL 60193

+1-847-524-1074 • 855-463-5358 • Fax +1-847-524-9996

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Elektrim® Motors

40 YEARS OF MANUFACTURING EXCELLENCE