



Elektrim NEMA Premium[®] Explosion Proof Motors

Safe Solutions for Hazardous Applications and Environments

1-250 HP 3PH TEFC 60 Hz NEMA AC Foot Mounted and C-Face Motors

Features

- Class I, Division I Group C and D
- Class II, Division I Group E, F and G
- Temp Code T3C
- Service Factor: 1.15
- Design: "B"
- Protection Degree: IP55
- Enclosure: TEFC Rigid Cast Iron Frame
- Warranty: 3-Years
- F1 / F2 Convertible
- Double drilled feet
- VPI applied for best electrical performance
- Corrosion resistant epoxy coated
- Oversized bearings on both ends
- Double rated for 190/380V 50Hz
- 208-230/460V 60Hz (444T and up 460V 60Hz)
- Suitable for Y/delta starting and part winding starting
- Class "F" insulation with rise below Class "B"
- PTC145 thermistors built-in
- CSA-US certified, UL Listed, DOE approved and CE marked

Applications

Ideal for industrial applications that a UL and CSA approved motor for safe operation in hazardous atmospheres where flammable vapors, fumes and dust may be present.



Foot Mounted NEMA Premium® Explosion Proof Motors

Part Number	List Price	HP	RPM	Frame	Conn	Torque			FLA	LRA	Efficiency			Power Factor %	NEMA Design	Code Letter	SF	lbs
						FLT lb-ft	LRT %	BDT %	460V	460V	FL	75%	50%					
77NFX-3-1-18	799	1	1773	143T	2Y/Y	2.96	275	300	1.4	15.0	85.5	84.5	81.3	78.5	B	N	1.15	73
77NFX-3-1-12	880		1175	145T	2Y/Y	4.47	170	265	1.7	15.0	82.5	81.0	78.0	66.0	B	N	1.15	73
77NFX-3-1.5-36	816	1.5	3511	143T	2Y/Y	2.24	175	250	1.9	20.0	84.0	85.1	83.5	84.5	B	M	1.15	68
77NFX-3-1.5-18	880		1769	145T	2Y/Y	4.45	250	280	2.0	20.0	86.5	86.0	83.0	79.0	B	M	1.15	77
77NFX-3-1.5-12	1,002		1183	182T	2Y/Y	6.66	165	250	2.1	20.0	87.5	87.0	84.5	71.0	B	M	1.15	121
77NFX-3-2-36	914	2	3504	145T	2Y/Y	3.00	170	240	2.5	25.0	85.5	86.0	85.3	86.0	B	L	1.15	77
77NFX-3-2-18	1,002		1765	145T	2Y/Y	5.95	235	270	2.6	25.0	86.5	86.0	84.0	80.0	B	L	1.15	87
77NFX-3-2-12	1,269		1183	184T	2Y/Y	8.88	160	240	2.8	25.0	88.5	88.0	86.0	73.0	B	L	1.15	123
77NFX-3-3-36	1,163	3	3528	182T	2Y/Y	4.46	160	230	3.5	32.0	86.5	88.0	87.5	87.0	B	K	1.15	125
77NFX-3-3-18	1,218		1773	182T	2Y/Y	8.88	215	250	3.8	32.0	89.5	89.0	87.5	77.0	B	K	1.15	133
77NFX-3-3-12	1,493		1182	213T	2Δ/Δ	13.32	155	230	4.0	32.0	89.5	89.0	87.5	71.0	B	K	1.15	206
77NFX-3-5-36	1,442	5	3543	184T	2Y/Y	7.41	150	215	6.0	46.0	88.5	87.0	85.0	85.0	B	J	1.15	143
77NFX-3-5-18	1,442		1767	184T	2Y/Y	14.86	185	225	7.0	46.0	89.5	89.2	87.0	81.0	B	J	1.15	147
77NFX-3-5-12	2,119		1178	215T	2Δ/Δ	22.28	150	215	7.5	46.0	89.5	89.5	85.0	75.0	B	J	1.15	228
77NFX-3-7.5-36	1,704	7.5	3539	213T	2Δ/Δ	11.13	140	200	8.3	63.5	89.5	90.0	85.0	86.0	B	H	1.15	254
77NFX-3-7.5-18	1,891		1773	213T	2Δ/Δ	22.21	175	215	8.9	63.5	91.7	91.5	89.0	84.0	B	H	1.15	266
77NFX-3-7.5-12	2,246		1186	254T	2Δ/Δ	33.20	150	205	12.5	63.5	91.0	91.0	89.0	78.0	B	H	1.15	303
77NFX-3-10-36	1,979	10	3540	215T	2Δ/Δ	14.83	135	200	11.5	81.0	90.2	90.2	89.0	88.0	B	H	1.15	290
77NFX-3-10-18	2,039		1772	215T	2Δ/Δ	29.63	165	200	12.2	81.0	91.7	92.0	90.0	86.0	B	H	1.15	288
77NFX-3-10-12	2,779		1186	256T	2Δ/Δ	44.27	150	200	12.5	81.0	91.0	90.0	89.0	81.0	B	H	1.15	339
77NFX-3-15-36	2,766	15	3538	254T	2Δ/Δ	22.26	130	200	16.5	116.0	91.0	90.0	89.0	86.0	B	G	1.15	399
77NFX-3-15-18	2,766		1778	254T	2Δ/Δ	44.29	160	200	17.5	116.0	92.4	90.0	89.0	87.0	B	G	1.15	375
77NFX-3-15-12	3,620		1189	284T	2Δ/Δ	66.23	140	200	22.8	145.0	91.7	92.0	90.0	82.0	B	G	1.15	545
77NFX-3-20-36	3,037	20	3531	256T	2Δ/Δ	29.74	130	200	22.8	145.0	91.0	90.0	88.0	88.0	B	G	1.15	363
77NFX-3-20-18	3,164		1777	256T	2Δ/Δ	59.09	150	200	23.0	145.0	93.0	92.0	90.0	87.0	B	G	1.15	411
77NFX-3-20-12	4,390		1179	286T	2Δ/Δ	89.06	135	200	23.5	145.0	91.7	91.5	89.0	81.0	B	G	1.15	605
77NFX-3-25-36	3,705	25	3560	284TS	2Δ/Δ	36.87	130	200	27.5	182.5	91.7	91.9	91.5	88.0	B	G	1.15	508
77NFX-3-25-18	3,764		1778	284T	2Δ/Δ	73.82	150	200	27.5	182.5	93.6	93.6	93.1	85.0	B	G	1.15	629
77NFX-3-25-12	5,177		1187	324T	2Δ/Δ	110.57	135	200	29.0	182.5	93.0	93.2	92.8	83.0	B	G	1.15	678
77NFX-3-30-36	4,428	30	3560	286TS	2Δ/Δ	44.24	130	200	32.5	217.5	91.7	91.9	91.5	89.0	B	G	1.15	581
77NFX-3-30-18	4,272		1777	286T	2Δ/Δ	88.63	150	200	32.5	217.5	93.6	93.7	93.1	87.0	B	G	1.15	690
77NFX-3-30-12	6,454		1187	326T	2Δ/Δ	132.69	135	200	34.5	217.5	93.0	93.2	92.8	83.0	B	G	1.15	726
77NFX-3-40-36	5,308	40	3571	324TS	2Δ/Δ	58.81	125	200	44.5	290.0	92.4	92.4	91.8	88.0	B	G	1.15	714
77NFX-3-40-18	5,595		1783	324T	2Δ/Δ	117.78	140	200	44.5	290.0	94.1	94.2	93.9	85.0	B	G	1.15	736
77NFX-3-40-12	8,078		1188	364T	2Δ/Δ	176.77	135	200	46.0	290.0	94.1	94.3	93.9	83.0	B	G	1.15	956
77NFX-3-50-36	7,148	50	3573	326TS	2Δ/Δ	73.47	120	200	54.0	362.5	93.0	93.0	92.4	88.0	B	G	1.15	762
77NFX-3-50-18	6,780		1783	326T	2Δ/Δ	147.22	140	200	55.0	362.5	94.5	94.6	94.2	85.0	B	G	1.15	787
77NFX-3-50-12	9,000		1188	365T	2Δ/Δ	220.96	135	200	56.5	362.5	94.1	94.3	93.9	83.0	B	G	1.15	992
77NFX-3-60-36	8,416	60	3573	364TS	2Δ/Δ	88.16	120	200	65.5	435.0	93.6	93.6	93.1	88.0	B	G	1.15	963
77NFX-3-60-18	8,505		1786	364T	2Δ/Δ	176.37	140	200	66.5	435.0	95.0	94.9	94.2	85.0	B	G	1.15	968
77NFX-3-60-12	11,182		1192	404T	2Δ/Δ	264.26	135	200	69.0	435.0	94.5	94.5	94.1	83.0	B	G	1.15	1283
77NFX-3-75-36	10,891	75	3573	365TS	2Δ/Δ	110.20	105	200	84.5	542.5	93.6	93.6	93.2	88.0	B	G	1.15	992
77NFX-3-75-18	9,969		1786	365T	2Δ/Δ	220.46	140	200	86.5	542.5	95.4	95.3	94.5	85.0	B	G	1.15	1041
77NFX-3-75-12	12,777		1192	405T	2Δ/Δ	330.33	135	200	84.0	542.5	94.5	94.6	94.2	83.0	B	G	1.15	1367
77NFX-3-100-36	12,777	100	3579	405TS	2Δ/Δ	146.69	105	200	108.8	725.0	94.1	94.1	93.7	89.0	B	G	1.15	1404
77NFX-3-100-18	12,849		1790	405T	2Δ/Δ	293.30	125	200	109.5	725.0	95.4	95.4	94.8	87.0	B	G	1.15	1428
77NFX-3-100-12	17,873		1190	444T	2-Δ	441.18	125	200	117.0	725.0	95.0	95.1	94.7	84.0	B	G	1.15	1747
77NFX-3-125-36	15,983	125	3586	444TS	2-Δ	183.00	100	200	130.0	907.5	95.0	94.8	94.2	89.0	B	G	1.15	1706
77NFX-3-125-18	16,105		1789	444T	2-Δ	366.83	110	200	133.0	907.5	95.4	95.4	94.8	85.0	B	G	1.15	1694
77NFX-3-125-12	22,403		1191	445T	2-Δ	551.01	120	200	135.0	907.5	95.0	95.1	94.7	84.0	B	G	1.15	1868
77NFX-3-150-36	22,339	150	3585	445TS	2-Δ	219.67	100	200	160.0	1085.0	95.0	94.9	94.4	87.0	B	G	1.15	1827
77NFX-3-150-18	24,192		1789	445T	2-Δ	440.19	110	200	162.5	1085.0	95.8	95.8	95.7	86.0	B	G	1.15	1868
77NFX-3-150-12	28,155		1191	447T	2-Δ	661.21	120	200	166.0	1085.0	95.8	95.8	95.3	82.0	B	G	1.15	2013
77NFX-3-200-36	28,167	200	3584	447TS	2-Δ	292.97	100	200	213.5	1450.0	95.4	95.4	95.0	87.0	B	G	1.15	1936
77NFX-3-200-18	28,167		1789	447T	2-Δ	586.92	100	200	217.0	1450.0	96.2	96.2	95.8	85.0	B	G	1.15	2013
77NFX-3-200-12	43,067		1191	449T	2-Δ	881.61	120	200	227.5	1450.0	95.8	95.9	95.5	82.0	B	G	1.15	2323
77NFX-3-250-36	39,861	250	3585	449TS	2-Δ	366.11	70	175	262.0	1825.0	95.8	95.7	95.3	87.0	B	G	1.15	2178
77NFX-3-250-18	39,861		1788	449T	2-Δ	734.06	80	175	268.0	1825.0	96.2	96.3	96.0	85.0	B	G	1.15	2299

Non-stock item may be available by limited supply or special order.

C-Face NEMA Premium® Explosion Proof Motors

Part Number	List Price	HP	RPM	Frame	Conn	Torque			FLA 460V	LRA 460V	Efficiency			Power Factor %	NEMA Design	Code Letter	SF	lbs
						FLT lb-ft	LRT %	BDT %			FL	75%	50%					
77NCX-3-1-18	871	1	1773	143TC	2Y/Y	2.96	275	300	1.4	15.0	85.5	84.5	81.3	78.5	B	N	1.15	73
77NCX-3-1-12	960		1175	145TC	2Y/Y	4.47	170	265	1.7	15.0	82.5	81.0	78.0	66.0	B	N	1.15	73
77NCX-3-1.5-36	890	1.5	3511	143TC	2Y/Y	2.24	175	250	1.9	20.0	84.0	85.1	83.5	84.5	B	M	1.15	68
77NCX-3-1.5-18	960		1769	145TC	2Y/Y	4.45	250	280	2.0	20.0	86.5	86.0	83.0	79.0	B	M	1.15	77
77NCX-3-1.5-12	1,093		1183	182TC	2Y/Y	6.66	165	250	2.1	20.0	87.5	87.0	84.5	71.0	B	M	1.15	121
77NCX-3-2-36	997	2	3504	145TC	2Y/Y	3.00	170	240	2.5	25.0	85.5	86.0	85.3	86.0	B	L	1.15	77
77NCX-3-2-18	1,093		1765	145TC	2Y/Y	5.95	235	270	2.6	25.0	86.5	86.0	84.0	80.0	B	L	1.15	87
77NCX-3-2-12	1,384		1183	184TC	2Y/Y	8.88	160	240	2.8	25.0	88.5	88.0	86.0	73.0	B	L	1.15	123
77NCX-3-3-36	1,268	3	3528	182TC	2Y/Y	4.46	160	230	3.5	32.0	86.5	88.0	87.5	87.0	B	K	1.15	125
77NCX-3-3-18	1,328		1773	182TC	2Y/Y	8.88	215	250	3.8	32.0	89.5	89.0	87.5	77.0	B	K	1.15	133
77NCX-3-3-12	1,628		1182	213TC	2Δ/Δ	13.32	155	230	4.0	32.0	89.5	89.0	87.5	71.0	B	K	1.15	206
77NCX-3-5-36	1,572	5	3543	184TC	2Y/Y	7.41	150	215	6.0	46.0	88.5	87.0	85.0	85.0	B	J	1.15	143
77NCX-3-5-18	1,572		1767	184TC	2Y/Y	14.86	185	225	7.0	46.0	89.5	89.2	87.0	81.0	B	J	1.15	147
77NCX-3-5-12	2,310		1178	215TC	2Δ/Δ	22.28	150	215	7.5	46.0	89.5	89.5	85.0	75.0	B	J	1.15	228
77NCX-3-7.5-36	1,858	7.5	3539	213TC	2Δ/Δ	11.13	140	200	8.3	63.5	89.5	90.0	85.0	86.0	B	H	1.15	254
77NCX-3-7.5-18	2,062		1773	213TC	2Δ/Δ	22.21	175	215	8.9	63.5	91.7	91.5	89.0	84.0	B	H	1.15	266
77NCX-3-7.5-12	2,449		1186	254TC	2Δ/Δ	33.20	150	205	12.5	63.5	91.0	91.0	89.0	78.0	B	H	1.15	303
77NCX-3-10-36	2,158	10	3540	215TC	2Δ/Δ	14.83	135	200	11.5	81.0	90.2	90.2	89.0	88.0	B	H	1.15	290
77NCX-3-10-18	2,223		1772	215TC	2Δ/Δ	29.63	165	200	12.2	81.0	91.7	91.7	90.0	86.0	B	H	1.15	288
77NCX-3-10-12	3,030		1186	256TC	2Δ/Δ	44.27	150	200	12.5	81.0	91.0	90.0	89.0	81.0	B	H	1.15	339
77NCX-3-15-36	3,015	15	3538	254TC	2Δ/Δ	22.26	130	200	16.5	116.0	91.0	90.0	89.0	86.0	B	G	1.15	399
77NCX-3-15-18	3,015		1778	254TC	2Δ/Δ	44.29	160	200	17.5	116.0	92.4	90.0	89.0	87.0	B	G	1.15	375
77NCX-3-15-12	3,946		1189	284TC	2Δ/Δ	66.23	140	200	22.8	145.0	91.7	92.0	90.0	82.0	B	G	1.15	545
77NCX-3-20-36	3,311	20	3531	256TC	2Δ/Δ	29.74	130	200	22.8	145.0	91.0	90.0	88.0	88.0	B	G	1.15	363
77NCX-3-20-18	3,449		1777	256TC	2Δ/Δ	59.09	150	200	23.0	145.0	93.0	92.0	90.0	87.0	B	G	1.15	411
77NCX-3-20-12	4,786		1179	286TC	2Δ/Δ	89.06	135	200	23.5	145.0	91.7	91.5	89.0	81.0	B	G	1.15	605
77NCX-3-25-36	4,039	25	3560	284TSC	2Δ/Δ	36.87	130	200	27.5	182.5	91.7	91.9	91.5	88.0	B	G	1.15	508
77NCX-3-25-18	4,103		1778	284TC	2Δ/Δ	73.82	150	200	27.5	182.5	93.6	93.6	93.1	85.0	B	G	1.15	629
77NCX-3-25-12	5,643		1187	324TC	2Δ/Δ	110.57	135	200	29.0	182.5	93.0	93.2	92.8	83.0	B	G	1.15	678
77NCX-3-30-36	4,827	30	3560	286TSC	2Δ/Δ	44.24	130	200	32.5	217.5	91.7	91.9	91.5	89.0	B	G	1.15	581
77NCX-3-30-18	4,657		1777	286TC	2Δ/Δ	88.63	150	200	32.5	217.5	93.6	93.7	93.1	87.0	B	G	1.15	690
77NCX-3-30-12	7,035		1187	326TC	2Δ/Δ	132.69	135	200	34.5	217.5	93.0	93.2	92.8	83.0	B	G	1.15	726
77NCX-3-40-36	5,786	40	3571	324TSC	2Δ/Δ	58.81	125	200	44.5	290.0	92.4	92.4	91.8	88.0	B	G	1.15	714
77NCX-3-40-18	6,099		1783	324TC	2Δ/Δ	117.78	140	200	44.5	290.0	94.1	94.2	93.9	85.0	B	G	1.15	736
77NCX-3-40-12	8,806		1188	364TC	2Δ/Δ	176.77	135	200	46.0	290.0	94.1	94.3	93.9	83.0	B	G	1.15	956
77NCX-3-50-36	7,792	50	3573	326TSC	2Δ/Δ	73.47	120	200	54.0	362.5	93.0	93.0	92.4	88.0	B	G	1.15	762
77NCX-3-50-18	7,391		1783	326TC	2Δ/Δ	147.22	140	200	55.0	362.5	94.5	94.6	94.2	85.0	B	G	1.15	787
77NCX-3-50-12	9,810		1188	365TC	2Δ/Δ	220.96	135	200	56.5	362.5	94.1	94.3	93.9	83.0	B	G	1.15	992
77NCX-3-60-36	9,174	60	3573	364TSC	2Δ/Δ	88.16	120	200	65.5	435.0	93.6	93.6	93.1	88.0	B	G	1.15	963
77NCX-3-60-18	9,271		1786	364TC	2Δ/Δ	176.37	140	200	66.5	435.0	95.0	94.9	94.2	85.0	B	G	1.15	968
77NCX-3-60-12	12,189		1192	404TC	2Δ/Δ	264.26	135	200	69.0	435.0	94.5	94.5	94.1	83.0	B	G	1.15	1283
77NCX-3-75-36	11,872	75	3573	365TSC	2Δ/Δ	110.20	105	200	84.5	542.5	93.6	93.6	93.2	88.0	B	G	1.15	992
77NCX-3-75-18	10,867		1786	365TC	2Δ/Δ	220.46	140	200	86.5	542.5	95.4	95.3	94.5	85.0	B	G	1.15	1041
77NCX-3-75-12	13,927		1192	405TC	2Δ/Δ	330.33	135	200	84.0	542.5	94.5	94.6	94.2	83.0	B	G	1.15	1367
77NCX-3-100-36	13,927	100	3579	405TSC	2Δ/Δ	146.69	105	200	108.8	725.0	94.1	94.1	93.7	89.0	B	G	1.15	1404
77NCX-3-100-18	14,006		1790	405TC	2Δ/Δ	293.30	125	200	109.5	725.0	95.4	95.4	94.8	87.0	B	G	1.15	1428
77NCX-3-100-12	19,482		1190	444TC	2-Δ	441.18	125	200	117.0	725.0	95.0	95.1	94.7	84.0	B	G	1.15	1747
77NCX-3-125-36	17,422	125	3586	444TSC	2-Δ	183.00	100	200	130.0	907.5	95.0	94.8	94.2	89.0	B	G	1.15	1706
77NCX-3-125-18	17,555		1789	444TC	2-Δ	366.83	110	200	133.0	907.5	95.4	95.4	94.8	85.0	B	G	1.15	1694
77NCX-3-125-12	24,420		1191	445TC	2-Δ	551.01	120	200	135.0	907.5	95.0	95.1	94.7	84.0	B	G	1.15	1868
77NCX-3-150-36	24,350	150	3585	445TSC	2-Δ	219.67	100	200	160.0	1085.0	95.0	94.9	94.4	87.0	B	G	1.15	1827
77NCX-3-150-18	26,370		1789	445TC	2-Δ	440.19	110	200	162.5	1085.0	95.8	95.8	95.7	86.0	B	G	1.15	1868
77NCX-3-150-12	30,689		1191	447TC	2-Δ	661.21	120	200	166.0	1085.0	95.8	95.8	95.3	82.0	B	G	1.15	2013
77NCX-3-200-36	30,703	200	3584	447TSC	2-Δ	292.97	100	200	213.5	1450.0	95.4	95.4	95.0	87.0	B	G	1.15	1936
77NCX-3-200-18	30,703		1789	447TC	2-Δ	586.92	100	200	217.0	1450.0	96.2	96.2	95.8	85.0	B	G	1.15	2013
77NCX-3-200-12	46,944		1191	449TC	2-Δ	881.61	120	200	227.5	1450.0	95.8	95.9	95.5	82.0	B	G	1.15	2323
77NCX-3-250-36	43,449	250	3585	449TSC	2-Δ	366.11	70	175	262.0	1825.0	95.8	95.7	95.3	87.0	B	G	1.15	2178
77NCX-3-250-18	43,449		1788	449TC	2-Δ	734.06	80	175	268.0	1825.0	96.2	96.3	96.0	85.0	B	G	1.15	2299

Non-stock item may be available by limited supply or special order.

SOLUTIONS TO MEET YOUR NEEDS

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