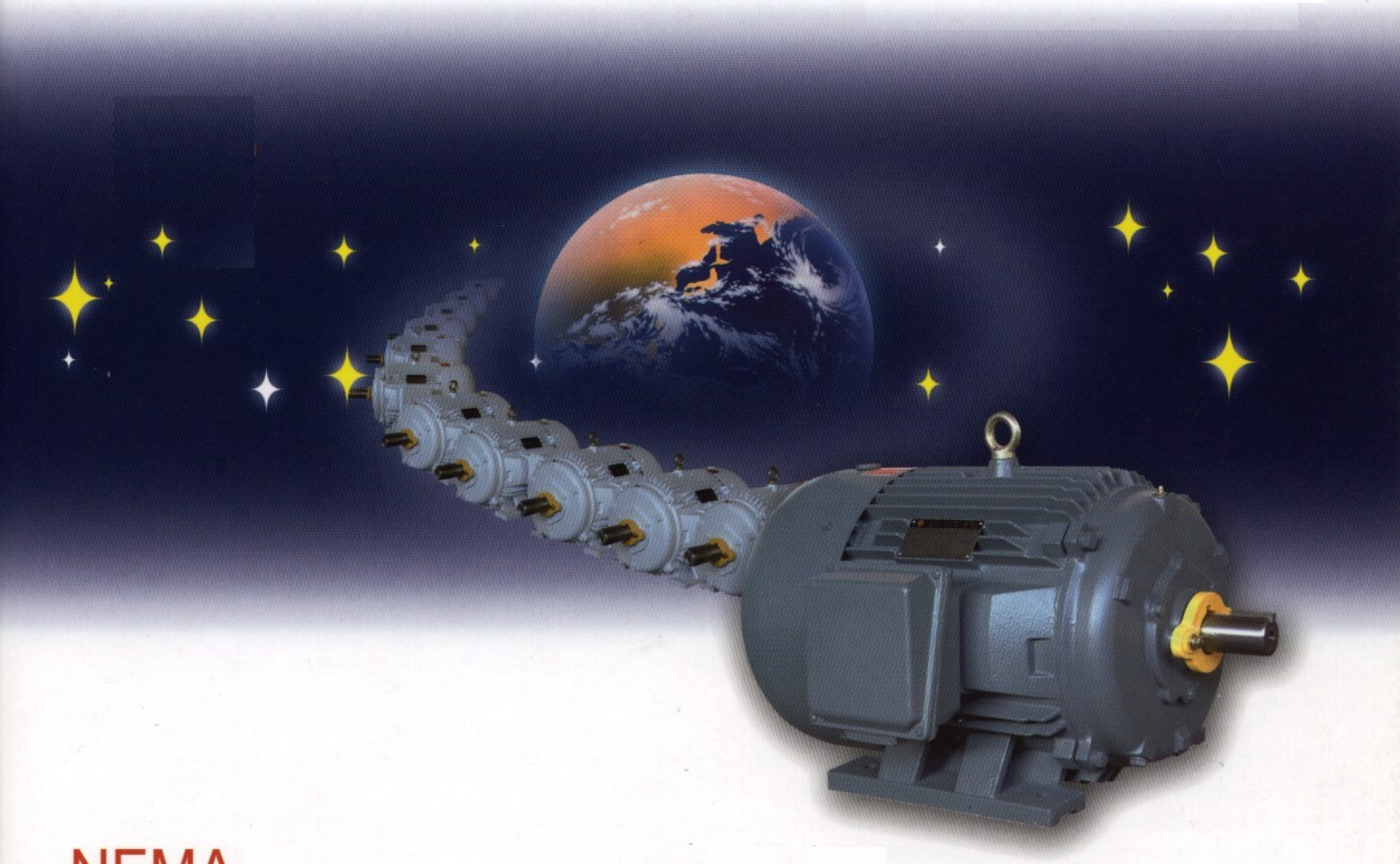


NEMA

NEMA SERIES STANDARD HIGH EFFICIENCY THREE PHASE INDUCTION MOTOR

FELM srl

GENERAL DESCRIPTION

NEMA standard high efficiency motors are totally enclosed fan-cooled machine(IP54),This series motors are designed and manufactured in accordance with NEMA standard of U.S.A and C390-93 standard of Canada.These motors are of a novel style and of excellent workmanship.The motors are characterized as reliability safety,minimal temperature rise,high effciency,low noise, low vibration, high starting torque,etc.

The motors adopt design B and class F insulation,Their service factor is 1.15.They are rated 208-230/460V,460V or 575V and 60Hz,Exposure to an ambient temperature in the range of-15℃ to 40℃, and to an altitude which dose not exceed 3300 feet. They are idea for applicaiton with no special requipment, They can be used to drive various kinds of mechanical equipment.This series motors can be specially manufactured on request,such as T,TC,TD or H insulation class,differnet voltage,different frequency,etc.

FRAME DESIGNATION AND OUTPUT

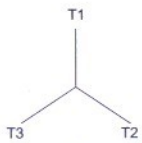
The correlaiton between frame designation,speed and output should conform to the Table below:

Frame	Synchronous Speed(r/min)					
	3600		1800		1200	
	Output					
	HP	kW	HP	kW	HP	kW
143T	1.0	0.75				
143T	1.5	1.1	1.0	0.75		
145T	2.0	1.5	1.5	1.1	1.0	0.75
145T			2.0	1.5		
182T	3.0	2.2	3.0	2.2	1.5	1.0
184T	5.0	3.7	5.0	3.7	2.0	1.5
213T	7.5	5.5	7.5	5.5	3.0	2.2
215T	10	7.5	10	7.5	5.0	3.7
254T	15	11	15	11	7.5	5.5
256T	20	15	20	15	10	7.5
284 T TS	25	18.5	25	18.5	15	11
286 T TS	30	22	30	22	20	15
324 T TS	40	30	40	30	25	18.5
326 T TS	50	37	50	37	30	22
364 T TS	60	45	60	45	40	30
365 T TS	75	55	75	55	50	37
404 T TS					60	45
405 T TS	100	75	100	75	75	55
444 T TS	125	90	125	90	100	75
445 T TS	150	110	150	110	125	90
447 T TS	200	150	200	150	150	110
449T 504/5T					200	150
504/5TS	250	185				
449T 504/5T			250	185		
449T 586/7T					250	185
449T 586/7T			300	220	300	220
586/7T			350	260	350	260
586/7T			400	295	400	295
586/7T			450	330	450	330
586/7T			500	370	500	370

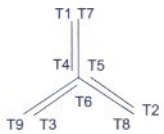
TERMINAL BOX

The terminal box is generally located in the middle of the frame.There are 3,6,9, and 12 outleads.The follow diagrams indicate the ways of connection.The length of lead is 6 inches measured from frame surface.Terminal marking and connections should accord with MG 1-2.62.There is grounding screw with grounding marking in the terminal box.

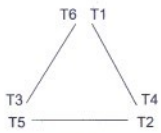
Terminal marking for and△connected Dual-voltage and Single-voltage motors.



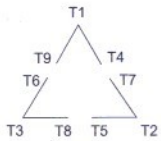
(A)



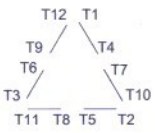
(B)



(C)



(D)



(E)

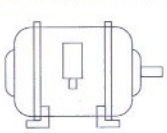
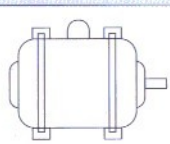
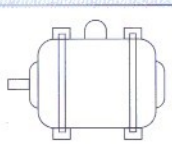
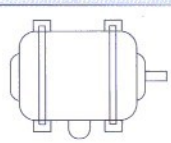
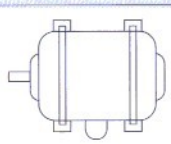
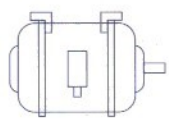
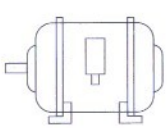
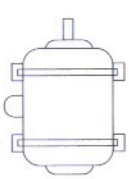
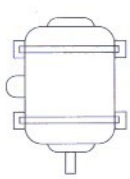
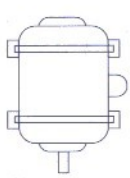
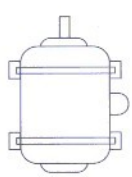
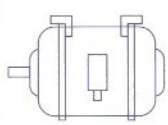
Voltage / Frame	230V/460V				460V		575V	
	230V		460V					
	L1,L2,L3	Tie together	L1,L2,L3	Tie together	L1,L2,L3	Tie together	L1,L2,L3	Tie together
(143T–184T 213T–215T (6P))	(T1,T7) (T2,T8) (T3,T9) (B)	(T4,T5,T6)	T1,T2,T3 (B)	(T4,T7) (T5,T8) (T6,T9)	—		T1,T2,T3 (A)	—
(213T–215T (2,4P) 254T–256T)	T1,T2,T3 (D)	(T1,T6,T7) (T2,T4,T8) (T3,T5,T9)	T1,T2,T3 (D)	(T4,T7) (T5,T8) (T6,T9)				
284^{T}_{TS}–286^{T}_{TS} 324^{T}_{TS}–365^{T}_{TS} 404^{T}_{TS}–504/5T(6P)	T1,T2,T3 (E)	(T1,T6,T7,T12) (T2,T4,T8,T10) (T3,T5,T9,T11)	T1,T2,T3 (E)	(T4,T7)(T5,T8) (T6,T9)(T1,T12) (T2,T10)(T3,T11)	T1,T2,T3 (C)	(T1,T6) (T2,T4) (T3,T5)	T1,T2,T3 (C)	(T1,T6) (T2,T4) (T3,T5)
449T 504/5^{T}_{TS} 586/7T	—	—	—	—	T1,T2,T3 (C)	(T1,T6) (T2,T4) (T3,T5)	T1,T2,T3 (C)	(T1,T6) (T2,T4) (T3,T5)

MOUNTING TYPE

T type-common mounted motor with feet

TC type-The motor with or without feet.The mounting method of C type motor with feet should conform to MG1-403.

Assembly symbols shall be as follows:

Floor mounting	Wall mounting					Ceiling mounting
 F-1	 W-1	 W-2	 W-3	 W-4		 C-1
 F-2	 W-5	 W-6	 W-7	 W-8		 C-2

Note:Assembly symbols F-1,W-2,W-6, W-8andC-2 show the same relative location for the terminal box, the mounting feet and the shaft-extension.

TECHNICAL DATA

Type	Rated output		At full load						Efficiency		Locked rotor current A under 460V	Locked torque / Rated torque %	Maximum torque / Rated torque %	
	HP	kW	Speed r/min	Current A under 460V	Connection method 230/460V	Current A under 575V	Connection method 575V	Power factor cosφ	FL 100%	FL 75%				
Synchronouse Speed 3600r/min 60Hz														
143T	1.0	0.75	3465	1.38	2人/人	1.1	人	0.85	75.5	75.8	15	220	320	
143T	1.5	1.1	3480	1.9	2人/人	1.52	人	0.86	82.5	82.0	20	180	250	
145T	2.0	1.5	3480	2.5	2人/人	2	人	0.87	84.0	83.5	25	200	270	
182T	3	2.2	3520	3.6	2人/人	2.88	人	0.86	85.5	85.2	32	230	360	
184T	5	3.7	3510	5.65	2人/人	4.7	人	0.88	87.5	88	46	210	350	
213T	7.5	5.5	3520	8.4	2△/△	6.7	人	0.89	88.5	88.4	63.5	200	330	
215T	10	7.5	3520	11.2	2△/△	9.0	人	0.89	89.5	89.8	81	220	330	
254T	15	11	3550	16.6	2△/△	13.4	人	0.87	90.2	89	116	180	290	
256T	20	15	3550	22.5	2△/△	18	人	0.88	90.2	90.1	145	170	260	
284TS	25	18.5	3555	27.9	2△/△	22.2	△	0.87	91	90.5	182.5	180	260	
286TS	30	22	3555	32.9	2△/△	26.4	△	0.89	91	90.7	217.5	200	290	
324TS	40	30	3555	46.3	2△/△	37	△	0.88	91.7	91.5	290	220	300	
326TS	50	37	3555	56.7	2△/△	46	△	0.88	92.4	91.9	263	210	300	
364TS	60	45	3575	66.9	2人/△	54.3	△	0.87	93	92.5	435	210	260	
365TS	75	55	3570	83.2	2△/△	66.6	△	0.87	93	93.2	543	200	250	
405TS-2	100	75	3580	110	2△/△	91.4	△	0.89	93.6	93.8	725	160	260	
444TS-2	125	90	3580	137	2△/△	110	△	0.90	94.5	94.8	907.5	120	240	
445TS-2	150	110	3580	166	2△/△	134	△	0.88	94.5	94.8	1085	170	290	
447TS-2	200	150	3580	219	2△/△	175	△	0.91	95	95.2	1450	170	270	
504/5TS	250	185	3575	272	△	218	△	0.89	94.5	94.3	1625	200	260	

◎ When the value of rated voltage is not 460V, the values of full load current and locked-rotor current are inversely proportional to 460V' s current value.

◎ when the value of rated voltage is not 575V,the values of full load current is inversely proportional to 575V' s current value.

◎ In the column of connection of 230/460V,"△" means single voltage 460V.

INSTRUCTIONS TO BUYERS

1.The technical data given in this catalogue are for reference only and subject to alterations.Before ordering, please contact us.

2.The following specifications are provided for the order: motor type, output,synchronous speed,voltage,frequency and mounting arrangement etc.

TECHNICAL DATA

Type	Rated output		At full load						Efficiency		Locked rotor current A under 460V	Locked torque / Rated torque %	Maximum torque / Rated torque %	
	HP	kW	Speed r/min	Current A under 460V	Connection method 230/460V	Current A under 575V	Connection method 575V	Power factor cosφ	FL 100%	FL 75%				
Synchronouse Speed 1800r/min 60Hz														
143T	1.0	0.75	1760	1.5	2人/人	1.2	人	0.71	82.5	81.5	15	250	350	
145T	1.5	1.1	1755	2.1	2人/人	1.7	人	0.74	84.0	84.1	20	240	320	
145T	2	1.5	1750	2.7	2人/人	2.2	人	0.77	84.0	84.5	25	235	290	
182T	3	2.2	1750	3.86	2人/人	3.1	人	0.81	87.5	87.1	32	280	330	
184T	5	3.7	1750	5.9	2人/人	5	人	0.83	87.5	88	46	270	310	
213T	7.5	5.5	1760	9.3	2△/△	7.6	人	0.81	89.5	89.9	63.5	200	330	
215T	10	7.5	1760	12.4	2△/△	10	人	0.83	89.5	89.9	81	200	300	
254T	15	11	1770	17.7	2△/△	14.2	人	0.84	91	89.8	116	170	270	
256T	20	15	1770	23.8	2△/△	19	人	0.84	91	90.8	145	170	260	
284T	25	18.5	1775	28.2	2△/△	22.8	△	0.87	92.4	92.9	182.5	170	240	
286T	30	22	1775	33.6	2△/△	26.9	△	0.86	92.4	92.6	217.5	170	270	
324T	40	30	1775	46.5	2△/△	37.2	△	0.86	93	93.4	290	190	290	
326T	50	37	1775	57.3	2人/△	46	人	0.86	93	93.2	362.5	180	280	
364T	60	45	1785	69.7	2△/△	55.9	△	0.85	93.6	93.8	435	180	270	
365T	75	55	1785	86.4	2△/△	69	△	0.84	94.1	94.3	542.5	180	240	
405T	100	75	1785	114.5	2△/△	91.6	△	0.87	94.5	94.8	725	200	290	
444T	125	90	1785	137	2△/△	110	△	0.86	94.5	94.1	907.5	170	250	
445T	150	110	1785	163	2△/△	131	△	0.87	95.0	94.9	1085	180	250	
447T	200	150	1785	223	2△/△	178	△	0.87	95	94.8	1450	200	280	
449T	250	185	1790	282	△	225	△	0.87	95.9	95.78	1980	228	330	
449T	300	220	1790	334	△	268	△	0.88	95.7	95.7	2351	226	326	
504/5T	250	185	1784	278	△	223	△	0.88	95	94.8	1562	160	250	
586/7T	300	220	1787	322	△	258	△	0.91	95	94.8	2075	190	280	
586/7T	350	260	1787	385	△	309	△	0.89	95	94.8	2399	180	280	
586/7T	400	295	1788	430	△	345	△	0.90	95.3	95	2973	200	300	
586/7T	450	330	1789	480	△	385	△	0.90	95.8	95.6	3200	200	250	
586/7T	500	370	1790	530	△	425	△	0.91	96	95.8	3560	200	300	

◎ When the value of rated voltage is not 460V, the values of full load current and locked-rotor current are inversely proportional to 460V′ s current value.

◎ when the value of rated voltage is not 575V,the values of full load current is inversely proportional to 575V′ s current value.

In the column of connection of 230/460V,"△" means single voltage 460V.

TECHNICAL DATA

Type	Rated output		At full load						Efficiency		Locked rotor current A under 460V	Locked torque / Rated torque %	Maximum torque / Rated torque %	
	HP	kW	Speed r/min	Current A under 460V	Connection method 230/460V	Current A under 575V	Connection method 575V	Power factor cosϕ	FL 100%	FL 75%				
			1200						Synchronouse Speed		1200r/min	60Hz		
145T	1.0	0.75	1145	1.6	2人/人	1.3	人	0.71	80.0	80.3	15	200	250	
182T	1.5	1.1	1170	2.40	2人/人	1.93	人	0.65	85.5	85.2	20	280	370	
184T	2	1.5	1170	3.05	2人/人	2.4	人	0.70	86.5	85.9	25	270	340	
213T	3	2.2	1180	4.2	2人/人	3.4	人	0.72	87.5	88.0	32	170	280	
215T	5	3.7	1180	6.8	2人/人	5.4	人	0.72	87.5	88.0	46	170	240	
254T	7.5	5.5	1180	10.6	2△/△	8.4	人	0.71	89.5	88.3	63.5	230	300	
256T	10	7.5	1180	14	2△/△	13	人	0.74	89.5	88.6	81	220	300	
284T	15	11	1185	19.2	2△/△	15.6	△	0.78	90.2	90.8	116	200	270	
286T	20	15	1185	25.9	2△/△	20.9	△	0.79	90.2	90.8	145	180	240	
324T	25	18.5	1185	30	2△/△	24	△	0.77	91.7	91.5	183	180	270	
326T	30	22	1185	35.4	2△/△	28	△	0.78	91.7	91.9	218	170	260	
364T	40	30	1185	47.5	2△/△	38	△	0.83	93	93.2	290	170	250	
365T	50	37	1185	58.3	2△/△	47	△	0.82	93	93.4	263	170	250	
404T	60	45	1190	71	2△/△	57	△	0.84	93.6	93.9	435	180	250	
405T	75	55	1190	89	2△/△	71	△	0.84	93.6	93.9	542.5	180	240	
444T	100	75	1190	119	2△/△	95	△	0.82	94.1	94.2	725	160	260	
445T	125	90	1190	141	2△/△	113	△	0.83	94.1	94.2	907.5	150	240	
447T	150	110	1190	171	2△/△	136	△	0.83	95	95.3	1085	160	250	
449T	200	150	1192	245	△	200	△	0.82	95	94.8	1454	201	292	
449T	250	185	1192	300	△	244	△	0.82	95.4	95.6	1716	188	279	
449T	300	220	1192	355	△	285	△	0.82	94.5	94.2	1993.5	191	280	
504/5T	200	150	1189	224	2△/△	180	△	0.88	95.4	95	1502	180	280	
586/7T	250	185	1189	282	△	226	△	0.87	95	95.1	1796	180	280	
586/7T	300	220	1189	330	△	265	△	0.88	95.2	95	2169	180	290	
586/7T	350	260	1189	393	△	315	△	0.87	95.1	95.3	2530	180	280	
586/7T	400	295	1189	444	△	356	△	0.88	95	95.2	2950	170	300	
586/7T	450	330	1190	505	△	405	△	0.86	95	94.8	3200	200	300	
586/7T	500	370	1190	563	△	450	△	0.86	95	94.7	3600	200	300	

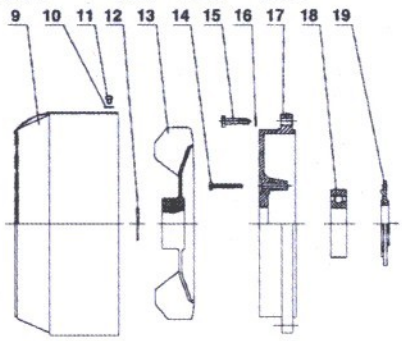
◎ When the value of rated voltage is not 460V, the values of full load current and locked-rotor current are inversely proportional to 460V´s current value.

◎ when the value of rated voltage is not 575V,the values of full load current is inversely proportional to 575V´ s current value.

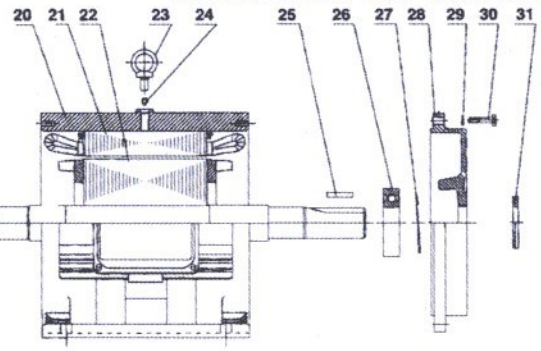
In the column of connection of 230/460V,"△" means single voltage 460V.

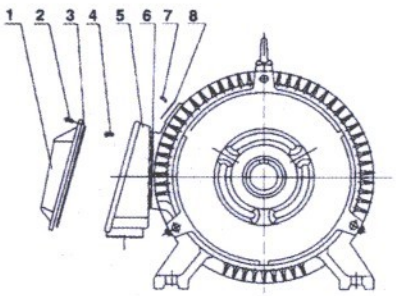
CONSTRUCTION

NEMA 140T–180T 210T



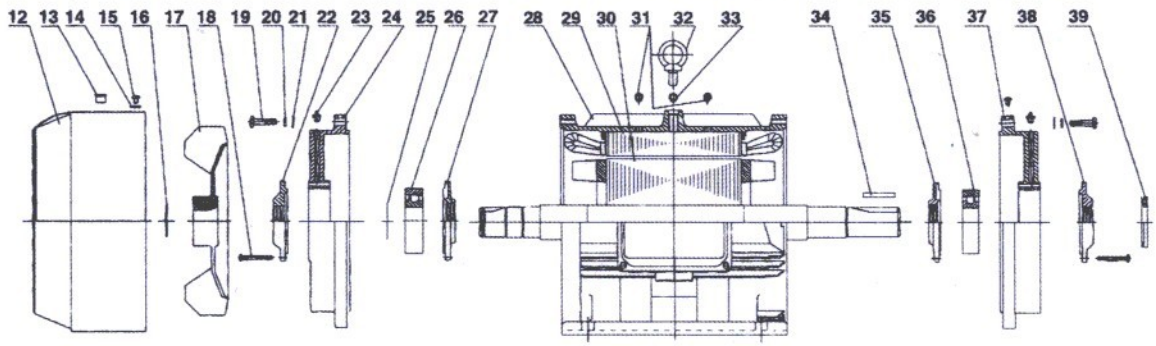
NEMA-FRAMES 140T-180T AND 210T



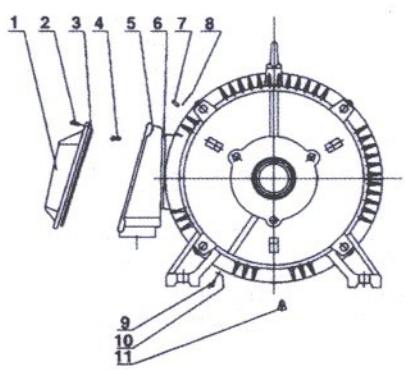


part No	Description	part No	Description
1	Terminal box cover	17	Non-drive endshield
2	Slotted pan head tapping screw	18	Non-drive end bearing
3	Rubber gasket for terminal box cover	19	Inner bearing cap
4	Slotted pan head tapping screw	20	Frame
5	Terminal box	21	Stator assembly
6	Rubber gasket for terminal box	22	Rotor assembly
7	Rivet	23	Eyebolt
8	Nameplate	24	Fastening bolt for stator
9	Fan cover	25	Key
10	Plain washer	26	Drive end bearing
11	Slotted pan head tapping screw	27	Spring washer for bearing
12	Circlip	28	Drive endshield
13	Fan	29	Spring washer
14	Fastening bolt for inner bearing cap	30	Fastening bolt for drive endshield
15	Fastening bolt for non-drive endshield	31	V-type water slinger
16	Spring washer		Part no.23 for frame 180T and above

NEMA 250T–440T 440TS



NEMA-FRAMES 250T-440T EXCEPT 440TS



part No	Description	part No	Description
1	Terminal box cover	21	Plain washer
2	Slotted pan head tapping screw	22	External bearing cap
3	Rubber gasket for terminal box cover	23	Oil cup
4	Slotted pan head tapping screw	24	Non-drive endshield
5	Terminal box	25	Circlip
6	Rubber gasket for terminal box	26	Non-drive end bearing
7	Rivet	27	Inner bearing cap
8	Nameplate	28	Frame
9	Hexagonal screw plug	29	Stator assembly
10	Plain washer	30	Rotor assembly
11	Drain hole plug	31	Fastening bolt for stator
12	Fan cover	32	Eyebolt
13	Rubber plug	33	Fastening bolt for stator
14	Plain washer	34	Key
15	Slotted pan head tapping screw	35	Inner bearing cap
16	Circlip	36	Drive end bearing
17	Fan	37	Drive endshield
18	Fastening bolt for inner bearing cap	38	External bearing cap
19	Fastening bolt for non-drive endshield	39	V-type water slinger
20	Spring washer		

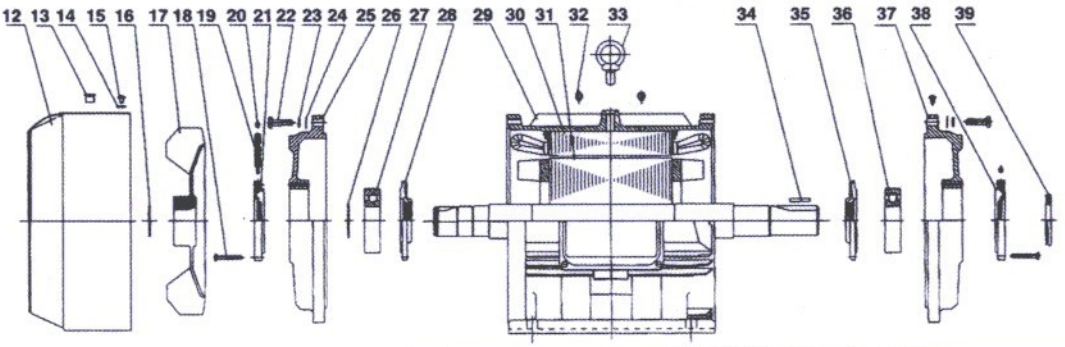
Part no.31for frame 280T and above only

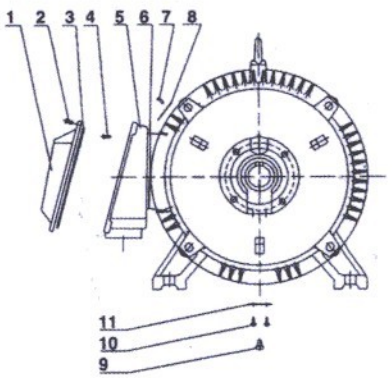
Part no.33for frame 250T

CONSTRUCTION

NEMA 440TS

NEMA-FRAMES 440TS

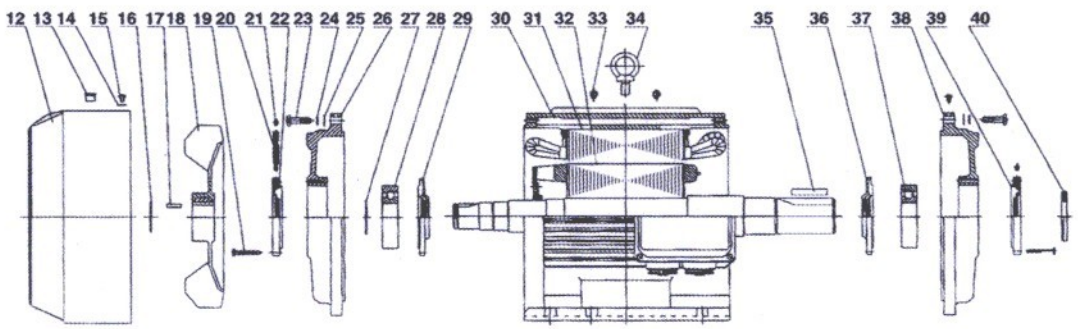


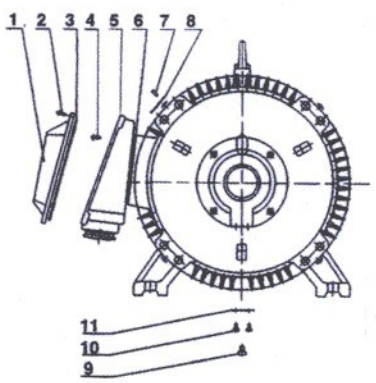


part No	Description	part No	Description
1	Terminal box cover	21	External bearing cap
2	Slotted pan head tapping screw	22	Fastening bolt for non-drive endshield
3	Rubber gasket for teminal box cover	23	Spring washer
4	Slotted pan head tapping screw	24	Plain washer
5	Terminal box	25	Non-drive end bearing
6	Rubber gasket for terminal box	26	Circlip
7	Rivet	27	Non-drive end bearing
8	Nameplate	28	Inner bearing cap
9	Drain hole plug	29	Frame
10	Hexagonal screw plug	30	Stator assembly
11	Cover plate	31	Rotor assembly
12	Fan cover	32	Fastening bolt for stator
13	Rubber plug	33	Eyebolt
14	Plain washer	34	Key
15	Slotted pan head tapping screw	35	Inner bearing cap
16	Circlip	36	Drive and bearing
17	Fan	37	Drive endshield
18	Fastening bolt for inner bearing cap	38	External bearing cap
19	Oil pipe	39	V-type water slinger
20	Oil cup		

NEMA 500T – 580T

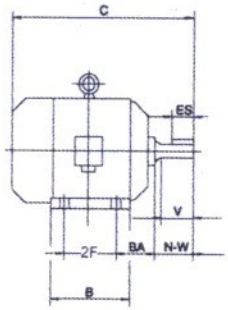
NEMA-FRAMES 500T-580T



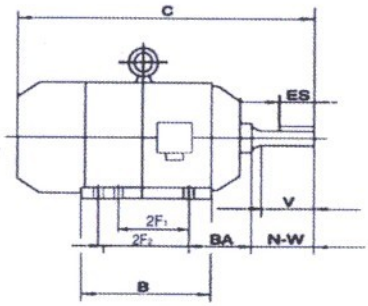


part No	Description	part No	Description
1	Terminal box cover	21	Oil cup
2	Slotted pan head tapping screw	22	External bearing cap
3	Rubber gasket for teminal box cover	23	Fastening bolt for non-drive endshield
4	Slotted pan head tapping screw	24	Spring washer
5	Terminal box	25	Plain washer
6	Rubber gasket for terminal box	26	Non-drive end bearing
7	Rivet	27	Circlip
8	Nameplate	28	Non-drive end bearing
9	Drain hole plug	29	Inner bearing cap
10	Hexagonal screw plug	30	Frame
11	Cover plate	31	Stator assembly
12	Fan cover	32	Rotor assembly
13	Rubber plug	33	Fastening bolt for stator
14	Plain washer	34	Eyebolt
15	Slotted pan head tapping screw	35	Key
16	Circlip	36	Inner bearing cap
17	Key for Fan	37	Drive and bearing
18	Fan	38	Drive endshield
19	Fastening bolt for inner bearing cap	39	External bearing cap
20	Oil pipe	40	V-type water slinger

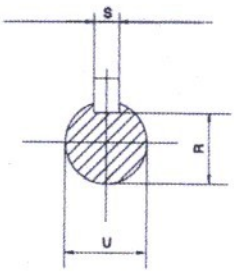
MOUNTING DIMENSIONS:T TYPE MOTOR WITH FEET

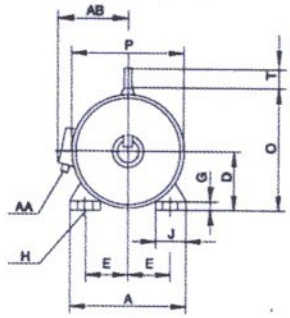


143T-449T



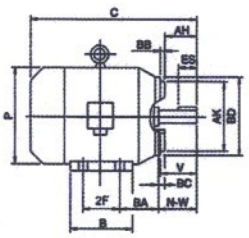
504/5,586/7



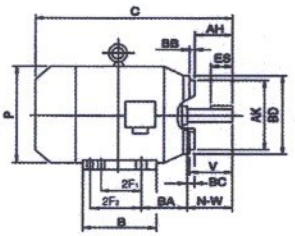


Frame Designation	Dimensions (inch)																					
	MAX A	MAX B	C	D	E	2F	$2F_1$	$2F_2$	G	H	J	N-W	O	P	R	S	T	U	MIN V	MIN ES	AA	AB	BA
143T	7	5	12.47	3.5	2.75	4			0.512	0.34	1.45	2.25	7.08	7.16	0.771	0.188	–	0.875	2	1.41	3/4	6.89	2.25
145T			13.58			5																	
182T	9	6.5	15.11	4.5	3.75	4.5			0.59	0.41	1.97	2.75	8.97	8.82	0.986	0.25	1.42	1.125	2.62	1.78	1	7.45	2.75
184T		7.5	16.11			5.5																	
213T	10.5	7.5	18.89	5.25	4.25	5.5			0.709	0.41	2.36	3.38	10.53	10.4	1.201	0.312	1.73	1.375	3.17	2.41	1	8.63	3.5
215T		9	20.49			7																	
254T	12.5	10.8	23.29	6.25	5	8.25			0.787	0.53	2.76	4	12.89	12.6	1.416	0.375	2.05	1.625	3.75	2.91	11/2	11.2	4.25
256T		12.5	25.06			10																	
284T	14	12.5	26.66	7	5.5	9.5			0.866	0.53	2.76	4.62	14.28	14.17	1.591	0.5	2.05	1.875	4.38	3.28	11/2	12	4.75
284TS			25.25									3.25			1.416	0.375		1.625	3	1.91			
286T	14	14	28.18	7	5.5	11			0.866	0.53	2.76	4.62	14.28	14.17	1.591	0.5	2.05	1.875	4.38	3.28	11/2	12	4.75
286TS			26.80									3.25			1.416	0.375		1.625	3	1.91			
324T	16	14	29.95	8	6.25	10.5			0.984	0.66	2.76	5.25	15.91	15.75	1.845	0.5	2.44	2.125	5	3.91	2	13.4	5.25
324TS			28.45									3.75			1.591			1.875	3.5	2.03			
326T	16	15.5	31.24	8	6.25	12			0.984	0.66	2.76	5.25	15.91	15.75	1.845	0.5	2.44	2.125	5	3.91	2	13.4	5.25
326TS			29.74									3.75			1.591			1.875	3.5	2.03			
364T	18	15.2	32.68	9	7	11.25			1.102	0.66	2.95	5.88	18.13	17.7	2.021	0.625	2.44	2.375	5.62	4.28	3	15.7	5.88
364TS			30.45									3.75			1.591	0.5		1.875	3.5	2.03			
365T	18	16.2	34.11	9	7	12.25			1.102	0.66	2.95	5.88	18.13	17.7	2.021	0.625	2.44	2.375	5.62	4.28	3	15.7	5.88
365TS			31.45									3.75			1.591	0.5		1.875	3.5	2.03			
404T	20	16.2	36.81	10	8	12.25			1.18	0.81	3.15	7.25	21.02	21.42	2.45	0.75	2.83	2.875	7	5.65	3	18.31	6.62
405T	20	17.8	38.35	10	8	13.75			1.18	0.81	3.15	7.25	21.02	21.42	2.45	0.75	2.83	2.875	7	5.65	3	18.31	6.62
405TS			35.35									4.25			1.845	0.5		2.125	4	2.78			
444T	22	18.5	42.52	11	9	14.5			1.38	0.81	3.35	8.5	22.97	23.43	2.88	0.875	3.46	3.375	8.25	6.91	2x3	19.41	7.5
444TS			38.94									4.75			2.021	0.625		2.375	4.5	3.03			
445T	22	20.5	44.5	11	9	16.5			1.38	0.81	3.35	8.5	22.97	23.43	2.88	0.875	3.46	3.375	8.25	6.91	2x3	19.41	7.5
445TS			40.71									4.75			2.021	0.625		2.375	4.5	3.03			
447T	22	24	48.03	11	9	20			1.38	0.81	3.35	8.5	22.97	23.43	2.88	0.875	3.46	3.375	8.25	6.91	2x3	19.41	7.5
447TS			44.25									4.75			2.021	0.625		2.375	4.5	3.03			
449T	22	31	55.27	11	9	12.5			1.575	0.81	3.35	8.5	23	23.62	2.88	0.875	4.25	3.375	8.25	7.01	2x3	19	7.5
504TS	24.7	26	46.2	12.5	10		16		1.87	0.938	4.72	4.75	25.3	24.8	2.021	0.625	4.25	2.375	4.5	3.03	2–3	20.9	8.5
505TS								18															
504T	24.7	26	54	12.5	10		16		1.87	0.938	4.72	10.625	25.3	24.8	3.134	0.875	4.25	3.625	10.375	9	2–3	20.9	8.5
505T								18															
586T	28	31.1	64.6	14.5	11.5		22		2.05	1.125	5.00	11.625	28.87	28.15	3.309	1	4.99	3.875	11.375	10	2–3	23.9	10
587T								25															

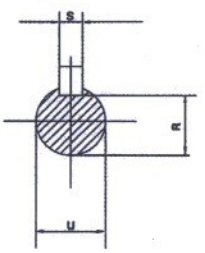
MOUNTING DIMENSIONS:TC TYPE MOTOR WITH FEET

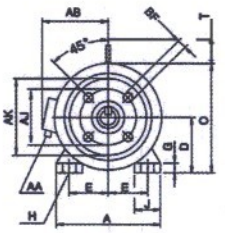


143TC-449TC

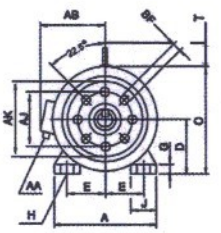


504/5,586/7TC





143TC~326TC



364TC ~ 586/7TC

Frame Designation	Dimensions (inch)																												
	MAX A	MAX B	C	D	E	2F	$2F_1$	$2F_2$	G	H	J	O	P	R	S	T	U	MIN V	MIN ES	AA	AB	AH	AJ	AK	BA	MIN BB	BC	MIN BD	BF	N-W
143TC	7	5	12.47	3.5	2.75	4			0.512	0.34	1.45	7.08	7.16	0.771	0.188		0.875	2	1.41	3/4	6.89	2.12	5.875	4.5	2.25	0.16	0.12	6.5	3/8-16	2.25
145TC		6	13.58			5																								
182TC	9	6.5	15.11	4.5	3.75	4.5			0.59	0.41	1.97	8.97	8.82	0.986	0.25	1.42	1.125	2.5	1.78	1	7.45	2.62	7.25	8.5	2.75	0.25	0.12	9	1/2-13	2.75
184TC		7.5	16.11			5.5																								
213TC	10.5	7.5	18.89	5.25	4.25	5.5			0.709	0.41	2.36	10.53	10.4	1.201	0.312	1.73	1.375	3.12	2.41	11/4	8.63	3.12	7.25	8.5	3.5	0.25	0.25	9	1/2-13	3.38
215TC		9	20.49			7																								
254TC	12.5	10.8	23.29	6.25	5	8.25			0.787	0.53	2.76	12.89	12.6	1.416	0.375	2.05	1.625	3.75	2.91	11/2	11.2	3.75	7.25	8.5	4.25	0.25	0.25	10	1/2-13	4
256TC		12.5	25.06			10																								
284TC	14	12.5	26.64	7	5.5	9.5			0.866	0.53	2.76	14.28	14.17	1.591	0.5	2.05	1.875	4.38	3.28	11/2	12	4.38	9	10.5	4.75	0.25	0.25	11.25	1/2-13	4.62
284TSC			25.25											1.416	0.375		1.625	3	1.91			3								3.25
286TC	14	14	28.18	7	5.5	11			0.866	0.53	2.76	14.28	14.17	1.591	0.5	2.05	1.875	4.38	3.28	11/2	12	4.38	9	10.5	4.75	0.25	0.25	11.25	1/2-13	4.62
286TSC			26.80											1.416	0.375		1.625	3	1.91			3								3.25
324TC	16	14	29.95	8	6.25	10.5			0.984	0.66	2.76	15.91	15.75	1.845	0.5	2.44	2.125	5	3.91	2	13.4	5	11	12.5	5.25	0.25	0.25	14	5/8-11	5.25
324TSC			28.45											1.591			1.875	3.5	2.03			3.5								3.75
326TC	16	15.5	31.24	8	6.25	12			0.984	0.66	2.76	15.91	15.75	1.845	0.5	2.44	2.125	5	3.91	2	13.4	5	11	12.5	5.25	0.25	0.25	14	5/8-11	5.25
326TSC			29.74											1.591			1.875	3.5	2.03			3.5								3.75
364TC	18	15.2	32.68	9	7	11.25			1.102	0.66	2.95	18.13	17.7	2.021	0.625	2.44	2.375	5.62	4.28	3	15.7	5.62	11	12.5	5.88	0.25	0.25	14	5/8-11	5.88
364TSC			30.45											1.591	0.5		1.875	3.5	2.03			3.5								3.75
365TC	18	16.2	34.11	9	7	12.25			1.102	0.66	2.95	18.13	17.7	2.021	0.625	2.44	2.375	5.62	4.28	3	15.7	5.62	11	12.5	5.88	0.25	0.25	14	5/8-11	5.88
365TSC			31.45											1.591	0.5		1.875	3.5	2.03			3.5								3.75
404TC	20	16.2	36.81	10	8	12.25			1.18	0.81	3.15	21.02	21.42	2.45	0.75	2.83	2.875	7	5.65	3	18.31	7	11	12.5	6.62	0.25	0.25	15.5	5/8-11	7.25
405TC	20	17.8	38.35	10	8	13.75			1.38	0.81	3.15	21.02	21.42	2.45	0.75	2.83	2.875	7	5.65	3	18.31	7	11	12.5	6.62	0.25	0.25	15.5	5/8-11	7.25
405TSC			35.35											1.845	0.5		2.125	4	2.78			4								4.25
444TC	22	18.5	42.52	11	9	14.5			1.38	0.81	3.35	22.97	23.43	2.88	0.875	3.46	3.375	8.25	6.91	2×3	19.41	8.25	14	16	7.5	0.25	0.25	18	5/8-11	8.5
444TSC			38.94											2.021	0.625		2.375	4.5	3.03			4.5								4.75
445TC	22	20.5	44.5	11	9	16.5			1.38	0.81	3.35	22.97	23.43	2.88	0.875	3.46	3.375	8.25	6.91	2×3	19.41	8.25	14	16	7.5	0.25	0.25	18	5/8-11	8.5
445TSC			40.71											2.021	0.625		2.375	4.5	3.03			4.5								4.75
447TC	22	24	48.03	11	9	20			1.38	0.81	3.35	22.97	23.43	2.88	0.875	3.46	3.375	8.25	6.91	2×3	19.41	8.25	14	16	7.5	0.25	0.25	18	5/8-11	8.5
447TSC			44.25											2.021	0.625		2.375	4.5	3.03			4.5								4.75
449TC	22	31	55.27	11	9	25			1.575	0.81	3.35	23	23.62	2.88	0.875	4.25	3.375	8.25	7.01	2×3	19	8.248	14	16	7.5	0.256	0.256	17.72	5/8-11	8.5
504TC	24.72	26	53	12.5	10		16	18	1.87	0.938	4.72	25.3	24.8	3.134	0.875	4.25	3.625	10.375	9	2×3	20.9	10.625	14.5	16.5	8.5	0.236	0	17.91	5/8-11	10.625
505TC																														
586TC	28	31.4	64.6	14.5	11.5		22	25	2.05	1.125	5	28.87	28.15	3.309	1	4.99	3.875	11.375	10	2×3	23.9	11.625	14.5	16.5	10	0.236	0	17.91	5/8-11	10.625
587TC																														