



GREEN SPARK AUTOMATION

*Solutions for a Better Tomorrow
Smart Energy and Sustainable Growth*

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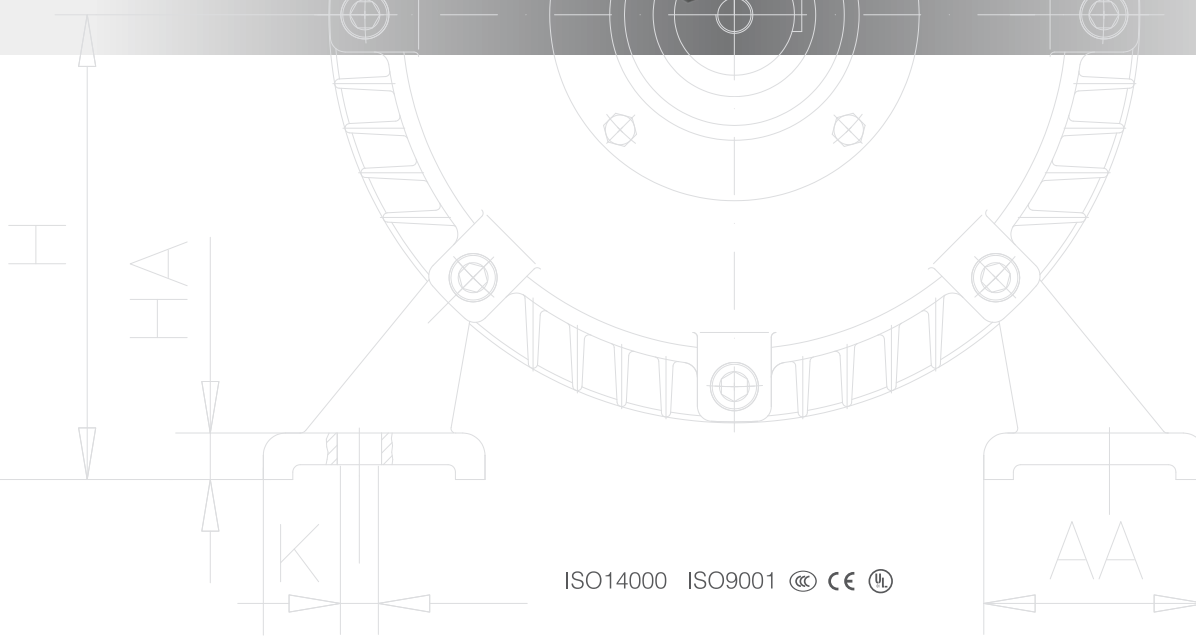
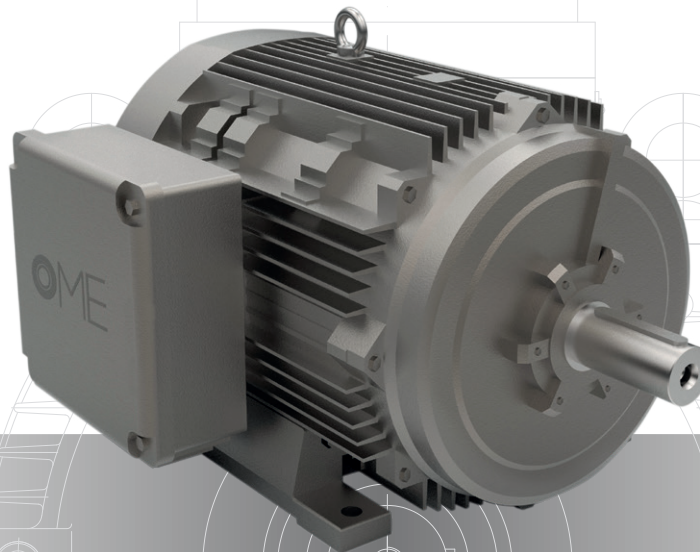
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OMN - NEMA SERIES

THREE PHASE ELECTRIC MOTOR HIGH VOLTAGE SERIES

www.omemotors.com

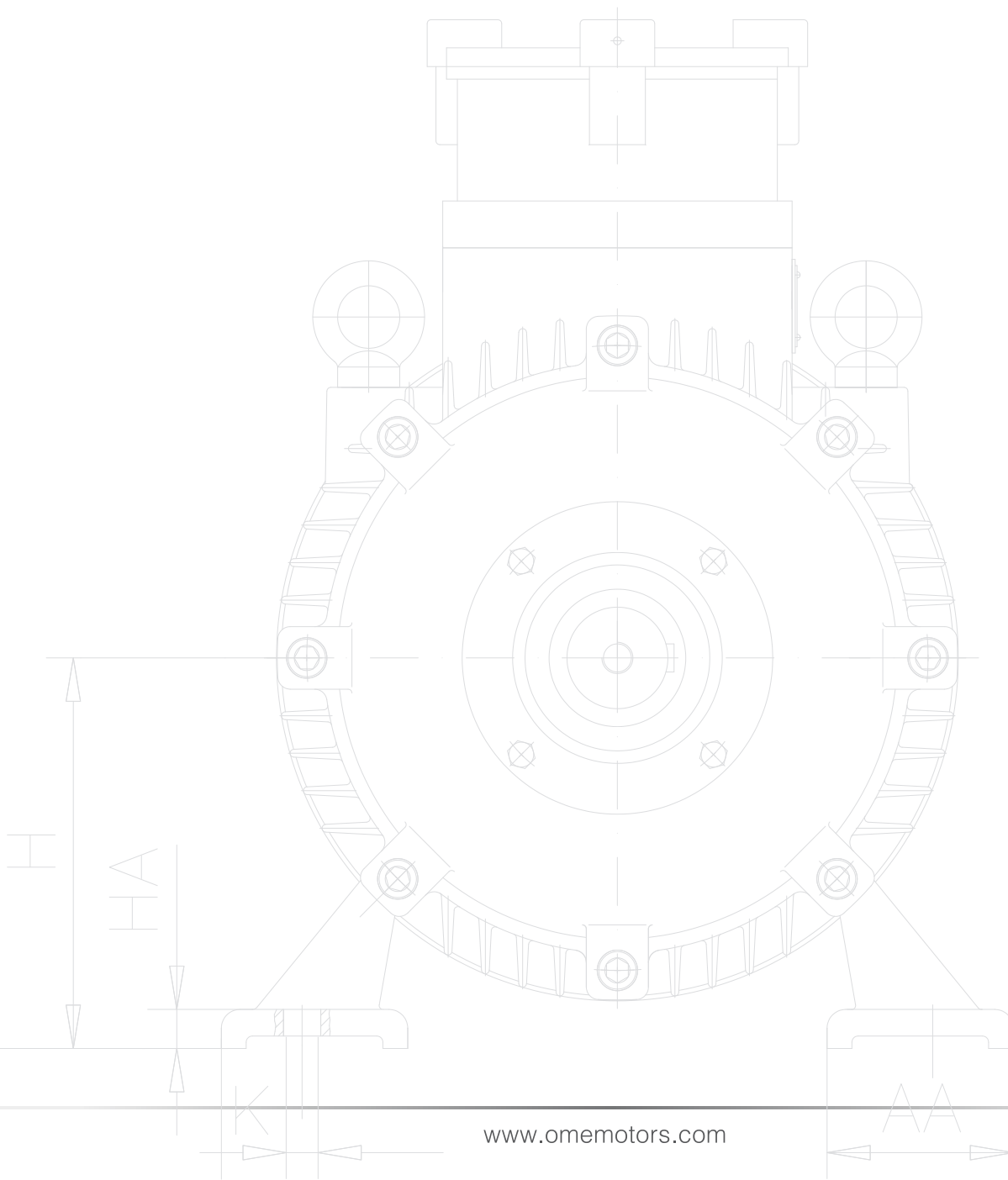


ISO14000 ISO9001 © CE UL



GENERAL INFORMATION

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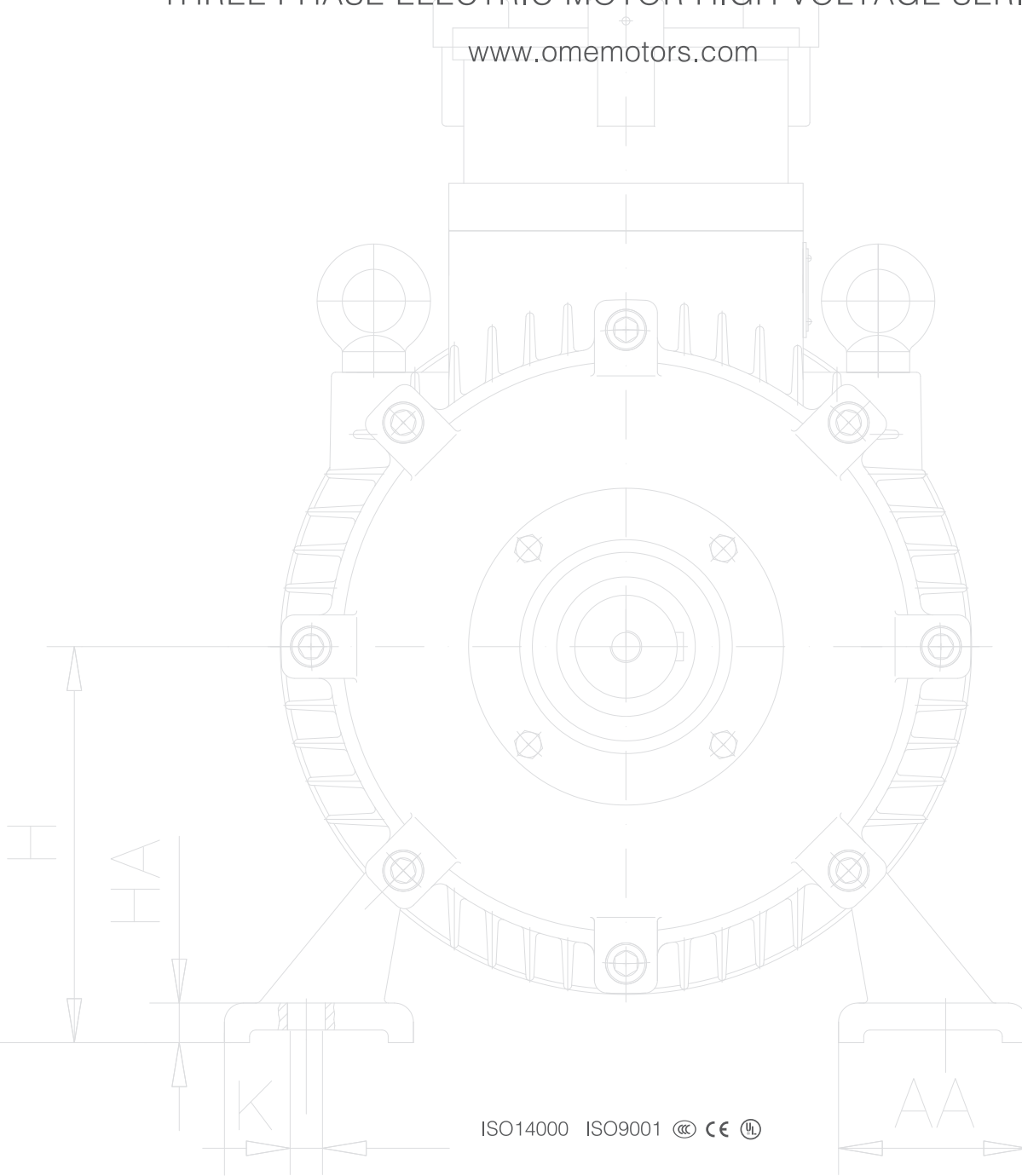




OMN - NEMA SERIES

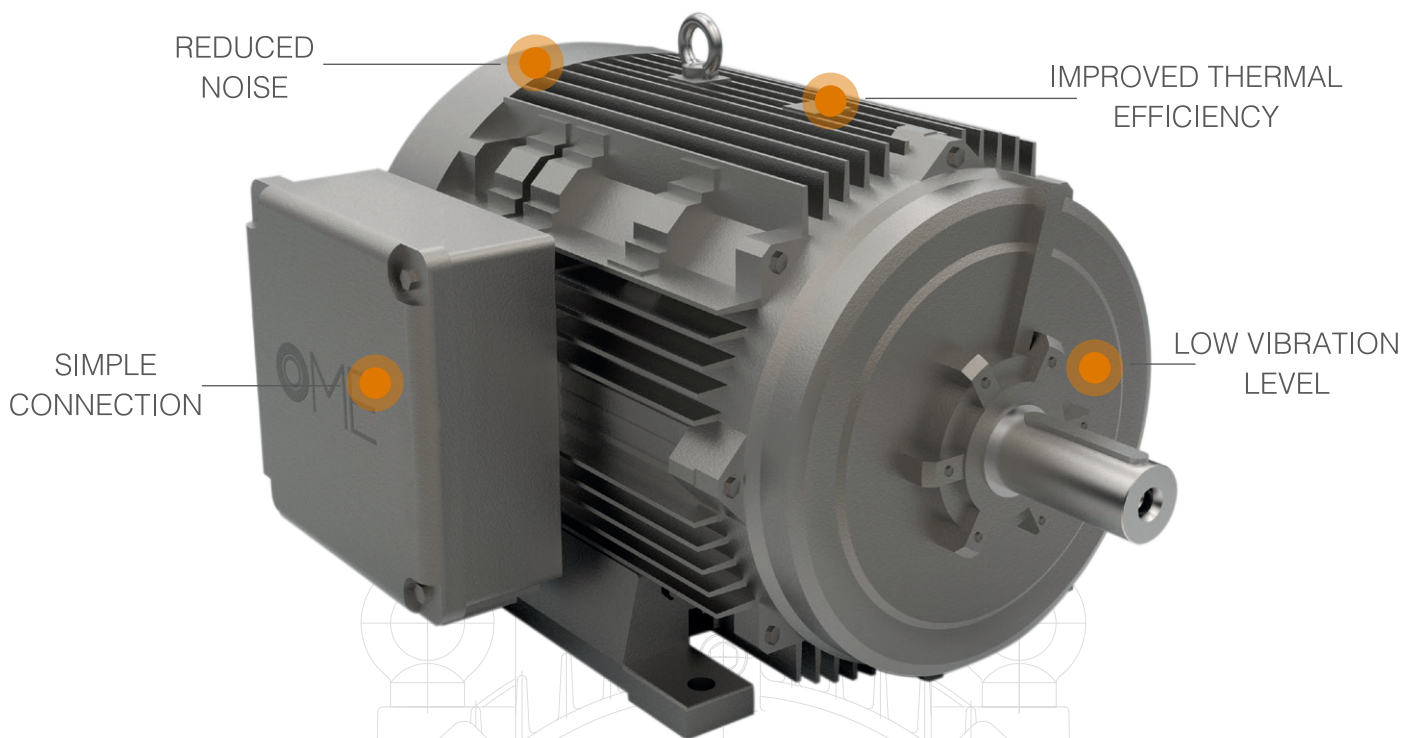
THREE PHASE ELECTRIC MOTOR HIGH VOLTAGE SERIES

www.omemotors.com





NEMA SERIES THREE PHASE ELECTRIC MOTOR LOW VOLTAGE



High Performance • Energy Saving

- Standard low voltage motors - or IEC motors - designed and manufactured by OME are low voltage motors that offer high efficiency and at the same time effective energy savings, in line with environmental regulations.

- OME high efficiency motors ensure significant optimisation of energy consumption, safeguarding the environment and ensuring substantial savings in operating costs.

OME Electric Motors

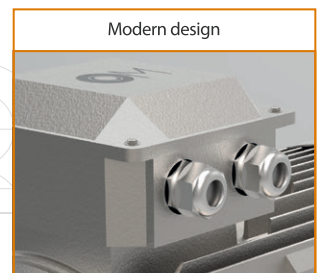
OME IEC low voltage motors are suitable for all industrial sectors and applications, complying with national and international mandatory efficiency rules.

OME's motors help our customers increase their productivity, save energy, improve quality and generate power.

- High quality components including superior copper, metal cable glands and SKF bearings. Thanks to their high quality, OME electric motors are perfectly suitable for heavy duty applications, with Long lasting performances.



- OME also pays exceptional care and to the design attention of its electric motors. This increase the cooling efficiency and also the looking of the product.



- Customized packaging that provides increased protection during transport and an easier handling.



OME Electric Motors and Orsatti Group

OME is a well-established global reality born from the Orsatti family's long experience in the electrical machinery sector and characterized by a history in continuous evolution.

The key points that distinguish the Orsatti Group are in particular:

- Technical experience of over 50 years
- The continuous research for new solutions to increase the performance of our electric motors
- Development of technical solutions in compliance with current standards
- The tailor-made service to customize the motors on customer request
- The wide range of production to meet any market need
- The constant research for suitable solutions to increase the efficiency of our electric motors
- Compliance with the standards required for energy saving and environmental protection

MISSION

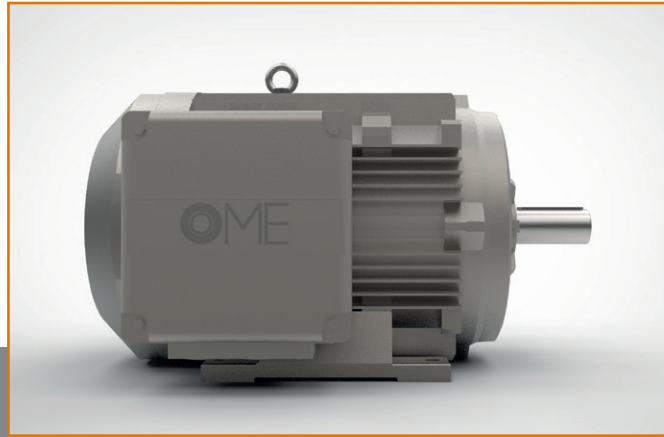
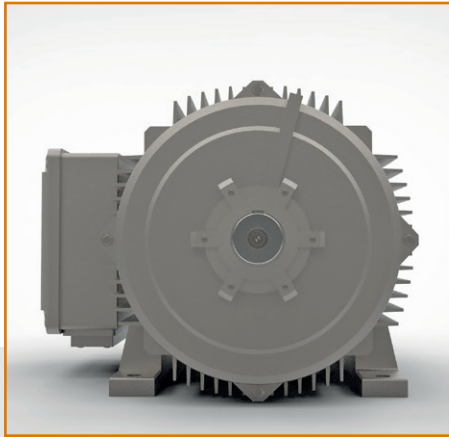
Our mission is to be a leading company in the production of electric motors at an international level.

VISION

Our vision is to design and manufacture highly customized motors, meeting the most varied customer requirements, managing to make competitive even the smallest realities.

VALUES

- The high quality of production, sales, service and maintenance;
- Intelligent and low costs logistics;
- Providing motors, services and expertise to save energy and improve customer processes throughout the life cycle of our products and beyond.



Series OMN

SERIES PREMIUM EFFICIENCY MOTOR (NEMA)

Motors in line with NEMA Premium standards for the US market.

Highly efficient devices for maximum energy savings.

Discover the NEMA range of electric motors for North and South America.

OME Motors is able to produce NEMA (National Electrical Manufacturers Association) motors that meet the regulations regarding the performance and specific requirements of the US and Middle East markets, where the company has been present for years. These are three-phase electric motors with different frames and voltages, able to adapt to the most diverse requirements and offer maximum energy efficiency for every application need. OME Motors builds NEMA cast iron motors, devices compliant with EISA legislation for minimum performance and capable of reaching or exceeding the NEMA Premium standard. The company produces low-voltage NEMA electric motors in the standard version, or is available to create highly customized and custom-built devices.



Characteristics and Functionality of NEMA Motors.

NEMA electric motors are devices able to offer various advantages in the most disparate industrial applications. In detail, they have these characteristics:

- NEMA electric motors have a dynamic and modular design, able to adapt to various contexts and to satisfy the most varied requirements.
- Since they are made of cast iron, NEMA motors are extremely robust.
- NEMA electric motors are energy-saving devices.
- The possibility to modify the motor offers maximum versatility of use.
- The low level of assistance and maintenance required by NEMA motors reduces costs.
- Thanks to their technical characteristics, NEMA electric motors have reduced vibration and noise levels.
- Finally, these devices are compatible with any frequency inverter.

Applications and Uses of NEMA Premium Motors.

Thanks to their own characteristics, the NEMA Premium motors designed and built - even custom-made - by OME Motors can be successfully used in the industrial field and in the most diverse sectors. In particular, these three-phase induction electric motors are suitable for use in water systems for the purification, treatment and desalination of water, in air treatment plants or in the food industries. They can work effectively in combination with pumps and compressors, or with fans, blowers and heating, ventilation and air conditioning systems (HVAC) and finally with turbines.

OUTLINES

Frame	143T~587T
Rated Power	1 - 200HP
Pole	2, 4, 6, 8
Service Factor	1.15
CSA Certification	Class I, Div. 2, Groups A, B, C & D-T3C (140-320Fr.) /-T3A (360-440Fr.) 250-500HP 2, 4, 6 pole;3-350HP 8 pole, service factor 1.15
Rated Voltage	230/460V, 460V or 575V
Rated Frequency	60Hz
Structure	TEFC (IP54, IP55)
Insulation Grade	F
Frequency Range	143T-447T 10:1 CT, 20:1 VT

TECHNICAL DATA

- OMN Premium Efficiency Electric Motors (TEFC Sf1.15)

2P Synchronous speed 3500r/min												
			At Full Load							Torque		
Model	Frame	Output	Speed	230 / 460V		575V		Power factor	Eff FL	Rated	Locked	Max
				Current		Current				Torque	/ Rated	/ Rated
	No.	Hp	r/min	A		A		COSφ	100%	Lb.ft	%	%
OMN143T-2 PE	143T	1	3475	3.00/1.50	2Y / Y	1.2	Y	0.81	77	1.51	175	250
OMN143T-2 PE	143T	1.5	3485	4.08/2.04	2Y / Y	1.63	Y	0.82	84	2.26	200	270
OMN145T-2 PE	145T	2	3490	5.21/2.61	2Y / Y	2.09	Y	0.84	85.5	3.01	190	260
OMN182T-2 PE	182T	3	3505	7.64/3.82	2Y / Y	3.06	Y	0.85	86.5	4.49	200	280
OMN184T-2 PE	184T	5	3505	12.0/6.0	2Y / Y	4.81	Y	0.88	88.5	7.49	190	250
OMN213T-2 PE	213T	7.5	3515	17.8/8.9	2ΔΔ / ΔΔ	7.13	Y	0.88	89.5	11.2	160	240
OMN215T-2 PE	215T	10	3520	23.1/11.5	2ΔΔ / ΔΔ	9.23	Y	0.9	90.2	14.9	170	240
OMN254T-2 PE	254T	15	3550	34.7/17.3	2ΔΔ / ΔΔ	13.9	Y	0.89	91	22.2	170	240
OMN256T-2 PE	256T	20	3545	45.7/22.9	2ΔΔ / ΔΔ	18.3	Y	0.9	91	29.6	150	210
OMN284TS-2 PE	284TS	25	3550	58.0/29.0	2ΔΔ / ΔΔ	23.2	Δ	0.88	91.7	37	140	220
OMN286TS-2 PE	286TS	30	3550	68.8/34.4	2ΔΔ / ΔΔ	27.5	Δ	0.89	91.7	44.4	140	220
OMN324TS-2 PE	324TS	40	3550	92.1/46.1	2ΔΔ / ΔΔ	36.8	Δ	0.88	92.4	59.2	150	230
OMN326TS-2 PE	326TS	50	3550	113/56.5	2ΔΔ / ΔΔ	45.3	Δ	0.89	93	73.9	150	230
OMN364TS-2 PE	364TS	60	3560	141/7.05	2ΔΔ / ΔΔ	56.5	Δ	0.85	93.6	88.5	150	210
OMN365TS-2 PE	365TS	75	3560	177/88.5	2ΔΔ / ΔΔ	70.6	Δ	0.85	93.6	111	140	210
OMN405TS-2 PE	405TS	100	3575	224/112	2ΔΔ / ΔΔ	89.4	Δ	0.89	94.1	147	105	200
OMN444TS-2 PE	444TS	125	3585	274/137	2ΔΔ / ΔΔ	110	Δ	0.9	95	183	130	230
OMN445TS-2 PE	445TS	150	3585	329/164.5	2ΔΔ / ΔΔ	131	Δ	0.9	95	220	140	230
OMN447TS-2 PE	447TS	200	3585	431/216	2ΔΔ / ΔΔ	173	Δ	0.91	95.4	293	150	230
OMN449TS-2 PE	449TS	250	3585	275	2ΔΔ / ΔΔ	218	Δ	0.89	95.8	366	180	220
OMN449TS-2 PE	449TS	300	3585	329	2ΔΔ / ΔΔ	259	Δ	0.89	95.8	439	180	220

4P Synchronous speed 1750r/min

				At Full Load						Torque		
				230 / 460V		575V		Power	Eff	Rated	Locked	Max
Model	Frame	Output	Speed	Current		Current		factor	FL	Torque	/ Rated	/ Rated
	No.	Hp	r/min	A		A		COSφ	100%	Lb.ft	%	%
OMN143T-4 PE	143T	1	1755	3.08/1.54	2Y / Y	1.23	Y	0.71	85.5	2.99	285	300
OMN145T-4 PE	145T	1.5	1755	4.45/2.22	2Y / Y	1.78	Y	0.73	86.5	4.49	270	310
OMN145T-4 PE	145T	2	1755	5.85/2.93	2Y / Y	2.34	Y	0.74	86.5	5.98	235	270
OMN182T-4 PE	182T	3	1755	7.95/3.97	2Y / Y	3.18	Y	0.79	89.5	8.97	240	300
OMN184T-4 PE	184T	5	1755	12.6/6.3	2Y / Y	5.04	Y	0.83	89.5	15	220	260
OMN213T-4 PE	213T	7.5	1765	18.2/9.1	2ΔΔ / ΔΔ	7.29	Y	0.84	91.7	22.3	190	230
OMN215T-4 PE	215T	10	1765	24.0/12.0	2ΔΔ / ΔΔ	9.6	Y	0.85	91.7	29.7	190	230
OMN254T-4 PE	254T	15	1765	36.6/18.3	2ΔΔ / ΔΔ	14.7	Y	0.83	92.4	44.6	160	220
OMN256T-4 PE	256T	20	1765	47.9/24.0	2ΔΔ / ΔΔ	19.2	Y	0.84	93	59.5	160	220
OMN284T-4 PE	284T	25	1770	58.2/29.1	2ΔΔ / ΔΔ	23.3	Δ	0.86	93.6	74.2	150	220
OMN286T-4 PE	286T	30	1770	69.0/34.5	2ΔΔ / ΔΔ	27.6	Δ	0.87	93.6	89	150	220
OMN324T-4 PE	324T	40	1775	93.7/46.8	2ΔΔ / ΔΔ	37.5	Δ	0.85	94.1	118	160	230
OMN326T-4 PE	326T	50	1775	118/59	2ΔΔ / ΔΔ	47.2	Δ	0.84	94.5	148	160	240
OMN364T-4 PE	364T	60	1780	144/72	2ΔΔ / ΔΔ	57.7	Δ	0.82	95	177	140	200
OMN324T-4 PE	324T	40	1775	93.7/46.8	2ΔΔ / ΔΔ	37.5	Δ	0.85	94.1	118	160	230
OMN326T-4 PE	326T	50	1775	118/59	2ΔΔ / ΔΔ	47.2	Δ	0.84	94.5	148	160	240
OMN364T-4 PE	364T	60	1780	144/72	2ΔΔ / ΔΔ	57.7	Δ	0.82	95	177	140	200
OMN365T-4 PE	365T	75	1780	177/88.5	2ΔΔ / ΔΔ	71.0	Δ	0.83	95.4	221	150	220
OMN405T-4 PE	405T	100	1790	226/113	2ΔΔ / ΔΔ	90.3	Δ	0.87	95.4	293	150	230
OMN444T-4 PE	444T	125	1790	285/142.5	2ΔΔ / ΔΔ	114	Δ	0.86	95.4	367	130	220
OMN445T-4 PE	445T	150	1790	341/170	2ΔΔ / ΔΔ	136	Δ	0.86	95.8	440	130	220
OMN447T-4 PE	447T	200	1790	453/226	2ΔΔ / ΔΔ	181	Δ	0.86	96.2	587	120	220
OMN449T-4 PE	449T	250	1790	280	Δ	222	Δ	0.87	96.2	733	200	250
OMN449T-4 PE	449T	300	1790	336	Δ	264	Δ	0.87	96.2	880	200	250
OMN586/7T-4 PE	586/7T	300	1790	324	Δ	255	Δ	0.9	96.2	880	200	250
OMN586/7T-4 PE	586/7T	350	1790	379	Δ	298	Δ	0.9	96.2	1027	200	250
OMN586/7T-4 PE	586/7T	400	1790	433	Δ	342	Δ	0.9	96.2	1173	200	250
OMN586/7T-4 PE	586/7T	450	1790	487	Δ	383	Δ	0.9	96.2	1320	200	250
OMN586/7T-4 PE	586/7T	500	1790	541	Δ	426	Δ	0.9	96.2	1466	200	250

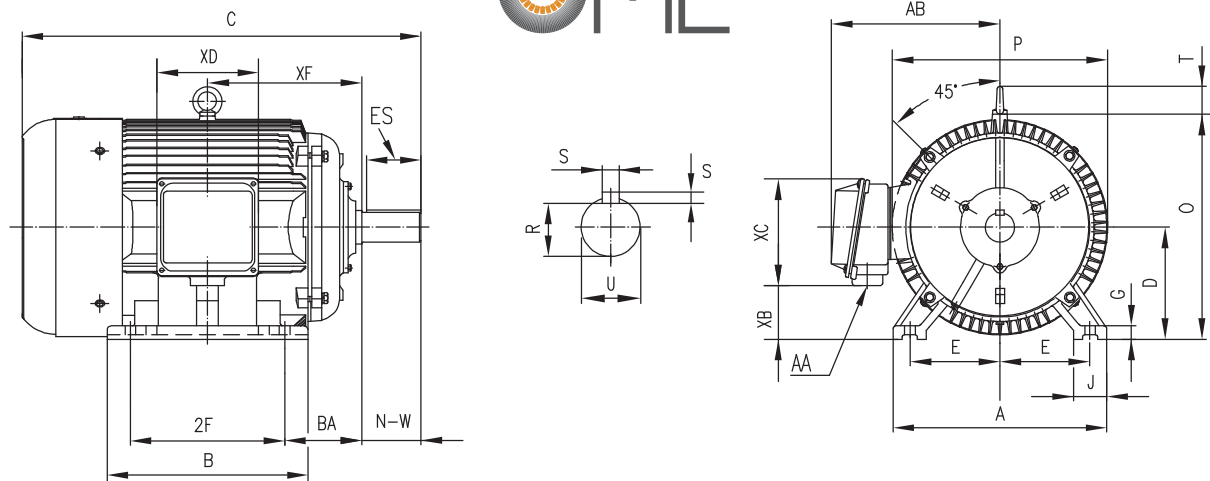
6P Synchronous speed 1150r/min

			At Full Load							Torque		
Model	Frame	Output	Speed	230 / 460V		575V		Power	Eff	Rated	Locked	Max
				Current		Current		factor	FL	Torque	/ Rated	/ Rated
								COSφ	100%	Lb.ft	%	%
OMN145T-6 PE	145T	1	1160	3.34/1.67	2Y / Y	1.34	Y	0.68	82.5	4.53	170	265
OMN182T-6 PE	182T	1.5	1180	4.72/2.36	2Y / Y	1.89	Y	0.68	87.5	6.67	165	250
OMN184T-6 PE	184T	2	1180	5.96/2.98	2Y / Y	2.38	Y	0.71	88.5	8.9	160	240
OMN213T-6 PE	213T	3	1180	8.60/4.30	2Y / Y	3.44	Y	0.73	89.5	13.3	180	250
OMN215T-6 PE	215T	5	1180	13.9/6.95	2Y / Y	5.58	Y	0.75	89.5	22.2	170	250
OMN254T-6 PE	254T	7.5	1175	18.8/9.4	2ΔΔ / ΔΔ	7.53	Y	0.82	91	33.5	160	230
OMN256T-6 PE	256T	10	1175	25.1/12.5	2ΔΔ / ΔΔ	10	Y	0.82	91	44.7	160	220
OMN284T-6 PE	284T	15	1185	37.4/18.7	2ΔΔ / ΔΔ	14.9	Δ	0.82	91.7	66.5	150	230
OMN286T-6 PE	286T	20	1185	49.2/24.6	2ΔΔ / ΔΔ	19.7	Δ	0.83	91.7	88.6	140	220
OMN324T-6 PE	324T	25	1185	65.4/32.7	2ΔΔ / ΔΔ	26.2	Δ	0.77	93	111	150	230
OMN326T-6 PE	326T	30	1185	76.5/38.2	2ΔΔ / ΔΔ	30.6	Δ	0.79	93	133	140	210
OMN364T-6 PE	364T	40	1185	98/49	2ΔΔ / ΔΔ	39.3	Δ	0.81	94.1	177	140	230
OMN365T-6 PE	365T	50	1185	121/60.5	2ΔΔ / ΔΔ	48.5	Δ	0.82	94.1	222	145	230
OMN404T-6 PE	404T	60	1190	140/70	2ΔΔ / ΔΔ	56	Δ	0.85	94.5	265	145	220
OMN405T-6 PE	405T	75	1190	175/87.5	2ΔΔ / ΔΔ	69.9	Δ	0.85	94.5	331	145	220
OMN444T-6 PE	444T	100	1190	240/120	2ΔΔ / ΔΔ	96.2	Δ	0.82	95	441	135	220
OMN445T-6 PE	445T	125	1190	300/150	2ΔΔ / ΔΔ	120	Δ	0.82	95	551	135	220
OMN447T-6 PE	447T	150	1190	358/179	2ΔΔ / ΔΔ	143	Δ	0.82	95.8	662	140	240
OMN449T-6 PE	449T	200	1192	471/235.5	2ΔΔ / ΔΔ	188	Δ	0.83	95.8	881	120	210
OMN449T-6 PE	449T	250	1190	298	Δ	238	Δ	0.82	95.8	1103	200	250
OMN449T-6 PE	449T	300	1190	358	Δ	286	Δ	0.82	95.8	1324	200	250
OMN586/7T-6 PE	586/7T	250	1190	284	Δ	227	Δ	0.86	95.8	1103	200	250
OMN586/7T-6 PE	586/7T	300	1190	341	Δ	273	Δ	0.86	95.8	1324	200	250
OMN586/7T-6 PE	586/7T	350	1190	398	Δ	318	Δ	0.86	95.8	1544	200	250
OMN586/7T-6 PE	586/7T	400	1190	455	Δ	364	Δ	0.86	95.8	1765	200	250
OMN586/7T-6 PE	586/7T	450	1192	511	Δ	409	Δ	0.86	95.8	1982	200	250
OMN586/7T-6 PE	586/7T	500	1192	568	Δ	455	Δ	0.86	95.8	2202	200	250

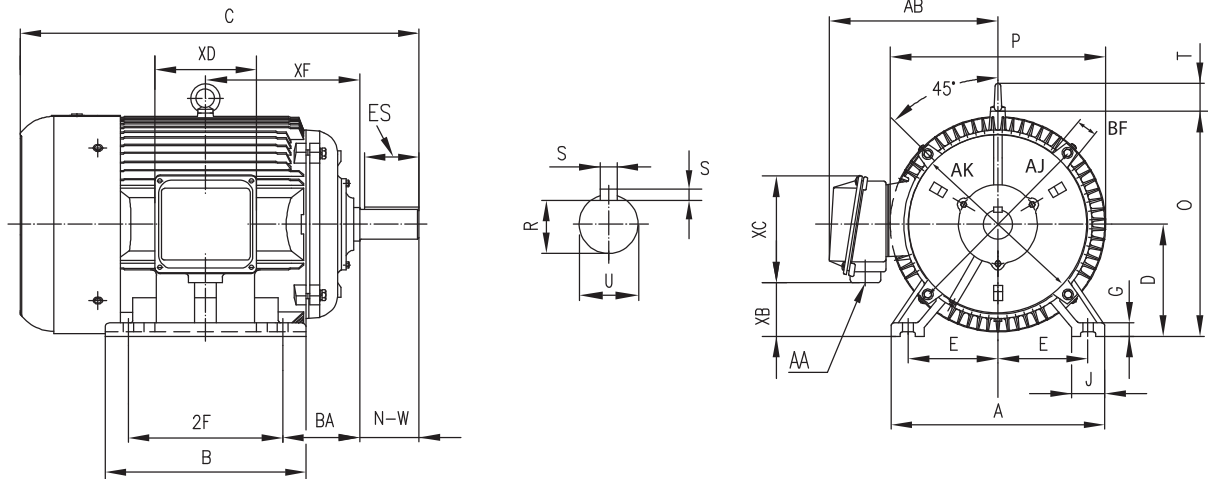
8P Synchronous speed 850r/min

				At Full Load						Torque		
				230 / 460V		575V		Power	Eff	Rated	Locked	Max
Model	Frame	Output	Speed	Current		Current		factor	FL	Torque	/ Rated	/ Rated
	No.	Hp	r/min	A		A		COSφ	100%	Lb.ft	%	%
OMN215T-8 PE	215T	3	870	9.66/4.83	2Y / Y	3.87	Y	0.68	85.5	18.1	130	205
OMN254T-8 PE	254T	5	865	14.6/7.3	2ΔΔ / ΔΔ	5.85	Y	0.74	86.5	30.3	130	205
OMN256T-8 PE	256T	7.5	865	21.6/10.8	2ΔΔ / ΔΔ	8.66	Y	0.75	86.5	45.5	125	200
OMN284T-8 PE	284T	10	875	27.5/13.8	2ΔΔ / ΔΔ	11	Δ	0.76	89.5	60	125	200
OMN286T-8 PE	286T	15	875	40.8/20.4	2ΔΔ / ΔΔ	16.3	Δ	0.77	89.5	90	125	200
OMN324T-8 PE	324T	20	875	53.2/26.6	2ΔΔ / ΔΔ	21.3	Δ	0.78	90.2	120	125	200
OMN326T-8 PE	326T	25	875	66.5/33.3	2ΔΔ / ΔΔ	26.6	Δ	0.78	90.2	150	125	200
OMN364T-8 PE	364T	30	885	81.7/40.8	2ΔΔ / ΔΔ	32.7	Δ	0.75	91.7	178	125	200
OMN365T-8 PE	365T	40	885	109/54.5	2ΔΔ / ΔΔ	43.6	Δ	0.75	91.7	237	125	200
OMN404T-8 PE	404T	50	895	133/66.5	2ΔΔ / ΔΔ	53.3	Δ	0.76	92.4	293	125	200
OMN405T-8 PE	405T	60	895	156/78	2ΔΔ / ΔΔ	62.4	Δ	0.78	92.4	352	125	200
OMN444T-8 PE	444T	75	895	188/94	2ΔΔ / ΔΔ	75	Δ	0.8	93.6	440	125	200
OMN445T-8 PE	445T	100	895	257/128	2ΔΔ / ΔΔ	103	Δ	0.78	93.6	587	125	200
OMN447T-8 PE	447T	125	895	319/159	2ΔΔ / ΔΔ	128	Δ	0.78	94.1	733	120	200
OMN449T-8 PE	449T	150	890	383/191	2ΔΔ / ΔΔ	153	Δ	0.78	94.1	885	120	200
OMN449T-8 PE	449T	200	890	472/236	2ΔΔ / ΔΔ	189	Δ	0.84	94.5	1180	120	200
OMN587T-8 PE	587T	250	890	312	Δ	250	Δ	0.79	95	1475	100	175
OMN587T-8 PE	587T	300	890	374	Δ	299	Δ	0.79	95	1770	100	175
OMN587T-8 PE	587T	350	890	437	Δ	349	Δ	0.79	95	2065	100	175
OMN587T-8 PE	587T	400	890	499	Δ	399	Δ	0.79	95	2360	100	175

- Inverter Duty per NEMA MG1, Part 31,20:1 for Variable Torque,10:1 for Constant Torque
- Certified Class I Div 2, Groups A, B, C & D
- Service Factor 1.15
- NEMA design B
- Rated 50Hz at same Horsepower with a 1.0 service factor



	Dimension (Inch)																									
Frame																	Min	AA								
No.	A	B	C	D	E	2F	G	H	J	N-W	O	P	R	S	T	U	ES	NPS C	NPT	AB	BA	XB	XC	XD	XF	
143T	7	5.6	12.5	3.5	2.75	4	0.43	0.34	1	2.25	7.6	7.8	0.77	0.19	1.42	0.88	1.41	3/4	3/4	6.7	2.25	1.6	4.6	4.1	4.25	
145T		6.6	13.5			5																			4.75	
182T	9	7.2	15	4.5	3.75	4.5	0.6	0.41	2	2.75	9.5	9.7	0.99	0.25	1.42	1.13	1.78	1	1	8	2.75	2.2	5.1	4.6	5	
184T		8.2	16			5.5																			5.5	
213T	10.5	9	20.3	5.25	4.25	5.5	0.71	0.41	2.4	3.38	10.6	10.4	1.2	0.31	1.73	1.38	2.41	1	1	8.5	3.5	3.3	5.1	4.6	7	
215T		10.5	21.8			7																			7.75	
254T	12.5	10.3	23.5	6.25	5	8.25	0.79	0.53	2.4	4	12.9	12.6	1.42	0.38	2.05	1.63	2.91	11/4	11/2	10.5	4.25	3	7.4	6.3	8.38	
256T		12	25.3			10																			9.25	
284T	14	12.4	26.6	7	5.5	9.5	0.87	0.53	2.8	4.62	14.3	14	1.59	0.5	2.05	1.88	3.28	11/2	11/2	11.5	4.75	3.6	7.4	6.3	9.5	
284TS			3.25							1.42			0.38	1.63		1.91										
286T	14	13.9	28.1	7	5.5	11	0.87	0.53	2.8	4.62	14.3	14	1.59	0.5	2.05	1.88	3.28	11/2	11/2	11.5	4.75	3.6	7.4	6.3	10.3	
286TS			3.25							1.42			0.38	1.63		1.91										
324T	16	13.5	29.6	8	6.25	10.5	0.99	0.66	2.8	5.25	16	15.7	1.85	0.5	2.44	2.13	3.91	2	2	14.5	5.25	2.4	10.8	9	10.5	
324TS			28.1							3.75			1.59			1.88	2.03									
326T	16	15	31.2	8	6.25	12	0.99	0.66	2.8	5.25	16	15.7	1.85	0.5	2.44	2.13	3.91	2	2	14.5	5.25	2.4	10.8	9	11.3	
326TS			29.7							3.75			1.59			1.88	2.03									
364T	18	15	32.6	9	7	11.3	1.18	0.66	3	5.88	18.8	19.1	2.02	0.63	2.44	2.38	4.28	3	3	16.5	5.88	3.8	10.8	9	11.5	
364TS			3.75							1.59			0.5	1.88		2.03										
365T	18	16	33.6	9	7	12.3	1.18	0.66	3	5.88	18.8	19.1	2.02	0.63	2.44	2.38	4.28	3	3	16.5	5.88	3.8	10.8	9	12	
365TS			31.5							3.75			1.59	0.5		1.88	2.03									
404T	20	15.5	36.5	10	8	12.3	1.18	0.81	3.2	7.25	21.1	21.6	2.45	0.75	2.84	2.88	5.65	3	3	19	6.62	4.6	12	9.8	12.8	
404TS			33.5							4.25			1.85	0.5		2.13	2.78									
405T	20	17	38.1	10	8	13.8	1.18	0.81	3.2	7.25	21.1	21.6	2.45	0.75	2.84	2.88	5.65	3	3	19	6.62	4.6	12	9.8	13.5	
405TS			35.1							4.25			1.85	0.5		2.13	2.78									
444T	22	18.5	41.9	11	9	14.5	1.38	0.81	3.4	8.5	23	23.5	2.88	0.88	3.47	3.38	6.91	3	2×3	20	7.5	5.9	12	11.5	14.8	
444TS			38.1							4.75			2.02	0.63		2.38	3.03									
445T	22	20.5	44	11	9	16.5	1.38	0.81	3.4	8.5	23	23.5	2.88	0.88	3.47	3.38	6.91	3	2×3	20	7.5	5.9	12	11.5	15.8	
445TS			40.1							4.75			2.02	0.63		2.38	3.03									
447T	22	24	47.4	11	9	20	1.38	0.81	3.4	8.5	23	23.5	2.88	0.88	3.47	3.38	6.91	3	2×3	20	7.5	5.9	12	11.5	17.5	
447TS			43.8							4.75			2.02	0.63		2.38	3.03									
449T	22	31	58	11	9	25	1.58	0.81	3.4	8.5	23	24	2.88	0.88	4.25	3.38	7.01	3	2×3	20	7.5	4.74	12	11.5	21.1	
449TS			52							4.75			2.02	0.63		2.38	3.15									
504/5T	24.7	26	54.4	12.5	10	16/1	1.87	0.94	4.72	10.6	25.3	25	3.13	0.88	4.25	3.63	9	-	2×3	20.9	8.5	5.7	13.8	11.8	9.2	
504/5TS			47.6			8				4.75			2.02	0.63		2.38	3.03									
504/5UZ	24.7	26	55.4	12.5	10	16/1	1.87	0.94	4.72	11.6	25.3	25	3.31	1	4.25	3.88	10	-	2×3	20.9	8.5	5.7	13.8	11.8	9.2	
						8																				

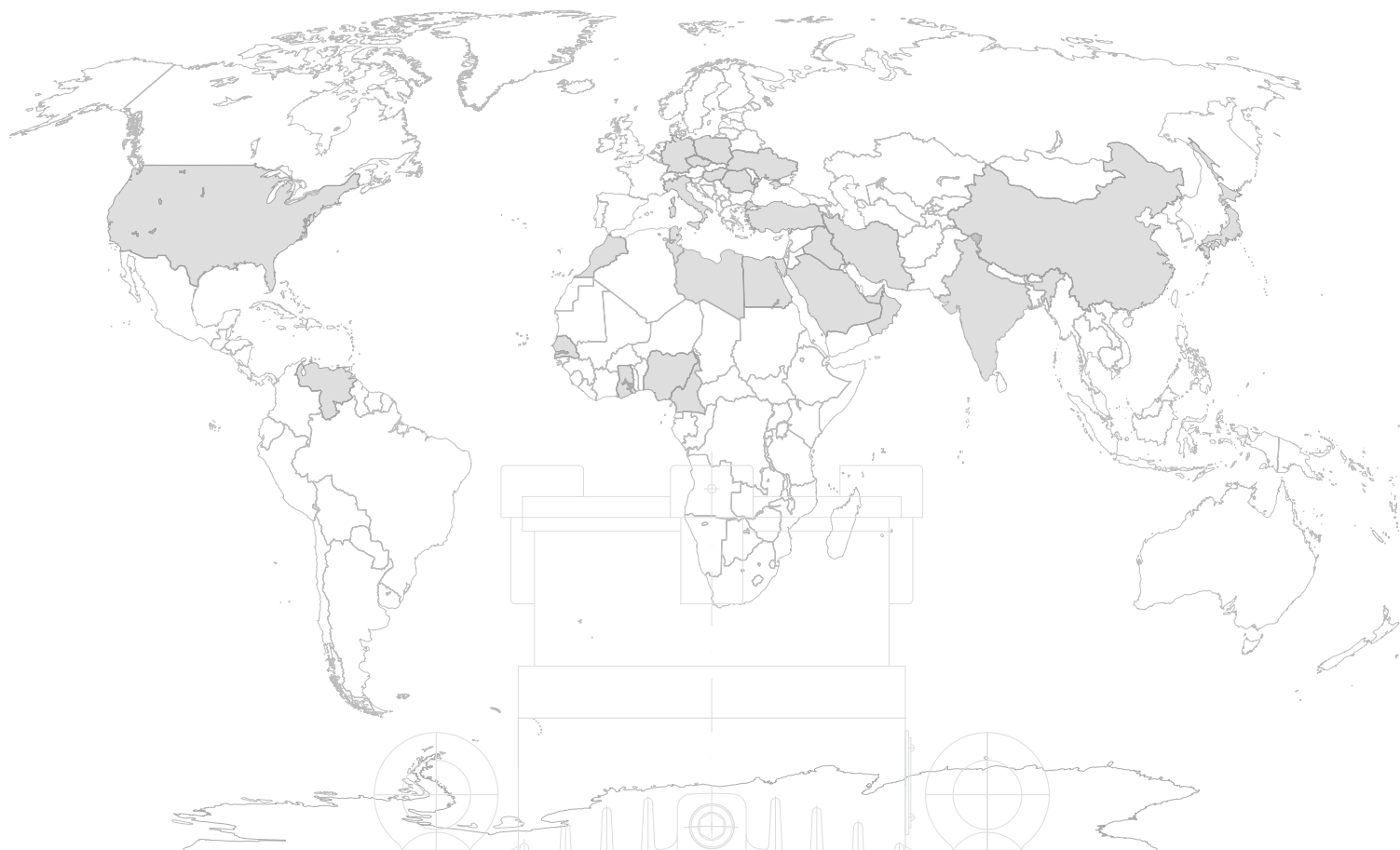


	Dimension (Inch)																																	
Frame																	Min	AA																
No.	A	B	C	D	E	2F	G	H	J	N-W	O	P	R	S	T	U	ES	NPS C	NPT	AB	AH	AJ	AK	BA	BB	BC	BD	BF	XB	XC	XD	XF		
143TC	7	5.6	12.5	3.5	2.75	4	0.43	0.34	1	2.25	7.6	7.8	0.77	0.19	1.42	0.88	1.41	3/4	3/4	6.7	2.12	5.88	4.5	2.25	0.16	0.12	6.5	3/8-16	1.6	4.6	4.1	4.25		
145TC		6.6	13.5			5																										4.75		
182TC	9	7.2	15	4.5	3.75	4.5	0.6	0.41	2	2.75	9.5	9.7	0.99	0.25	1.42	1.13	1.78	1	1	8	2.62	7.25	8.5	2.75	0.25	0.12	9	1/2-13	2.2	5.1	4.6	5		
184TC		8.2	16			5.5																										5.5		
213TC	10.5	9	20.3	5.25	4.25	5.5	0.71	0.41	2.4	3.38	10.6	10.4	1.2	0.31	1.73	1.38	2.41	1	1	8.5	3.12	7.25	8.5	3.5	0.25	0.25	9	1/2-13	3.3	5.1	4.6	7		
215TC		10.5	21.8			7																										7.75		
254TC	12.5	10.3	23.5	6.25	5	8.25	0.79	0.53	2.4	4	12.9	12.6	1.42	0.38	2.05	1.63	2.91	11/4	11/2	10.5	3.75	7.25	8.5	4.25	0.25	0.25	10	1/2-13	3	7.4	6.3	8.38		
256TC		12	25.3			10																										9.25		
284TC	14	12.4	26.6	7	5.5	9.5	0.87	0.53	2.8	4.62	14.3	14	1.59	0.5	2.05	1.88	3.28	11/2	11/2	11.5	4.38	9	10.5	4.75	0.25	0.25	11.3	1/2-13	3.6	7.4	6.3	9.5		
284TSC			25.2							3.25			1.42	0.38		1.63	1.91																	
286TC	14	13.9	28.1	7	5.5	11	0.87	0.53	2.8	4.62	14.3	14	1.59	0.5	2.05	1.88	3.28	11/2	11/2	11.5	4.38	9	10.5	4.75	0.25	0.25	11.3	1/2-13	3.6	7.4	6.3	10.3		
286TSC			26.7							3.25			1.42	0.38		1.63	1.91																	
324TC	16	13.5	29.6	8	6.25	10.5	0.99	0.66	2.8	5.25	16	15.7	1.85	0.5	2.44	2.13	3.91	2	2	14.5	5	11	12.5	5.25	0.25	0.25	14	5/8-11	2.4	10.8	9	10.5		
324TSC			28.1							3.75			1.59	1.88		2.03	3.5																	
326TC	16	15	31.2	8	6.25	12	0.99	0.66	2.8	5.25	16	15.7	1.85	0.5	2.44	2.13	3.91	2	2	14.5	5	11	12.5	5.25	0.25	0.25	14	5/8-11	2.4	10.8	9	11.3		
326TSC			29.7							3.75			1.59	1.88		2.03	3.5																	
364TC	18	15	32.6	9	7	11.3	1.18	0.66	3	5.88	18.8	19.1	2.02	0.63	2.44	2.38	4.28	3	3	16.5	5.62	11	12.5	5.88	0.25	0.25	14	5/8-11	3.8	10.8	9	11.5		
364TSC			30.5							3.75			1.59	0.5		1.88	2.03				3.5													
365TC	18	16	33.6	9	7	12.3	1.18	0.66	3	5.88	18.8	19.1	2.02	0.63	2.44	2.38	4.28	3	3	16.5	5.62	11	12.5	5.88	0.25	0.25	14	5/8-11	3.8	10.8	9	12		
365TSC			31.5							3.75			1.59	0.5		1.88	2.03				3.5													
404TC	20	15.5	36.5	10	8	12.3	1.18	0.81	3.2	7.25	21.1	21.6	2.45	0.75	2.84	2.88	5.65	3	3	19	7	11	12.5	6.62	0.25	0.25	15.5	5/8-11	4.6	12	9.8	12.8		
404TSC			33.5							4.25			1.85	0.5		2.13	2.78				4													
405TC	20	17	38.1	10	8	13.8	1.18	0.81	3.2	7.25	21.1	21.6	2.45	0.75	2.84	2.88	5.65	3	3	19	7	11	12.5	6.62	0.25	0.25	15.5	5/8-11	4.6	12	9.8	13.5		
405TSC			35.1							4.25			1.85	0.5		2.13	2.78				4													
444TC	22	18.5	41.9	11	9	14.5	1.38	0.81	3.4	8.5	23	23.5	2.88	0.88	3.47	3.38	6.91	3	2×3	20	8.25	14	16	7.5	0.25	0.25	18	5/8-11	5.9	12	11.5	14.8		
444TSC			38.1							4.75			2.02	0.63		2.38	3.03				4.5													
445TC	22	20.5	44	11	9	16.5	1.38	0.81	3.4	8.5	23	23.5	2.88	0.88	3.47	3.38	6.91	3	2×3	20	8.25	14	16	7.5	0.25	0.25	18	5/8-11	5.9	12	11.5	15.8		
445TSC			40.1							4.75			2.02	0.63		2.38	3.03				4.5													
447TC	22	24	47.4	11	9	20	1.38	0.81	3.4	8.5	23	23.5	2.88	0.88	3.47	3.38	6.91	3	2×3	20	8.25	14	16	7.5	0.25	0.25	18	5/8-11	5.9	12	11.5	17.5		
447TSC			43.8							4.75			2.02	0.63		2.38	3.03				4.5													
449TC	22	31	58	11	9	25	1.58	0.81	3.4	8.5	23	24	2.88	0.88	4.25	3.38	7.01	3	2×3	20	8.25	14	16	7.5	0.25	0.25	18	5/8-11	4.74	12	11.5	21.1		
449TSC			52							4.75			2.02	0.63		2.38	3.15				4.5													
504/5TC	24.7	26	54.4	12.5	10	16/1	1.87	0.94	4.72	10.6	25.3	25	3.13	0.88	4.25	3.63	9	-	2×3	20.9					8.5	0.23	0	18	5/8-11	5.7	13.8	11.8	9.2	

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