

General Specifications:

HP / kW RATING:

Available for motor/drive system sizes up to 3500HP / 2600kW

VOLTAGE:

Standard voltages up to 690V, 3-phase

FREQUENCY:

50 or 60Hz

OVERLOAD CAPABILITY:

Suitable for overload of 150% for 60 seconds every 10 minutes

HARMONICS TREATED:

5th, 7th, 11th, 13th, ...

K-FACTOR SUITABILITY:

Up to 20

INPUT K-FACTOR:

Reduced to <1.5

INPUT CURRENT DISTORTION:

<8% at full load

NO LOAD CAPACITIVE

REACTANCE (kVAR) LEVELS:

5 to 75HP 15 to 20%
100 to 3500HP 10 to 15%

EFFICIENCY:

>99%

ELEVATION:

3300ft [1000m] above sea level

VENTILATION:

Convection air cooled

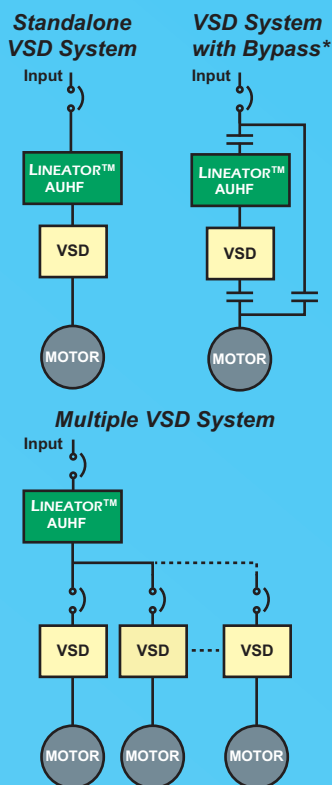
ENCLOSURE:

NEMA 3R [IP23]
Paint: Polyester powder coated
Color: ANSI 61 Grey

OPTIONS:

Nema 3R [IP23] Enhanced
ABS, DNV or Lloyds Certification

Typical LINEATOR Applications



Rating Tables: (type 'D' Lineator) [1]

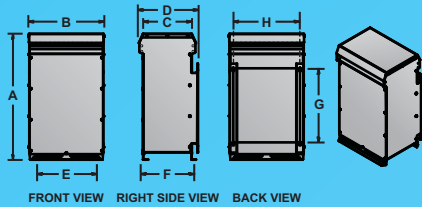
Motor Size		Lineator Rating				208V (50 or 60Hz), 240V (50Hz)				400, 440V (50Hz)				
HP	kW	Input Amps (3-Phase)				Standard Enclosure		Enhanced Enclosure		Standard Enclosure		Enhanced Enclosure		
		208V	220/240V	380/400V	415/440V	Case Style	Weight lbs [kg]	Case Style	Weight lbs [kg]	Case Style	Weight lbs [kg]	Case Style	Weight lbs [kg]	
5	4	14	13	8	7	4.5	SU1	65 [30]	SU1-E	75 [34]	SU1	58 [26]	SU1-E	68 [31]
7.5	5.5	20	18	11	10	6.3	SU2	76 [35]	SU2-E	86 [39]	SU2	67 [30]	SU2-E	77 [35]
10	7.5	27	24	14	13	8.5		80 [36]		80 [36]		78 [35]		88 [40]
15	11	40	36	21	19	13		117 [53]		127 [58]		90 [41]		100 [45]
20	15	53	48	28	25	17	SU3	138 [63]	SU3-E	148 [67]	SU3	118 [54]	SU3-E	128 [58]
25	18.5	66	60	35	32	21		154 [70]		164 [74]		130 [59]		140 [64]
30	22	79	72	42	38	25		189 [86]		199 [90]		142 [65]		152 [69]
40	30	105	95	55	51	34	MT2	253 [115]	MT2-E	263 [119]	MT2	154 [70]	MT2-E	164 [74]
50	37.5	131	119	69	63	42		275 [125]		333 [151]		186 [84]		196 [88]
60	45	158	143	83	76	51		315 [143]		337 [153]		218 [99]		228 [103]
75	55	196	178	103	95	63	SU3	325 [148]	SU3-E	399 [181]	SU3	304 [138]	SU3-E	314 [142]
100	75	260	236	137	125	84		442 [201]		516 [235]		323 [147]		414 [188]
125	90	323	294	170	156	104		468 [213]		542 [246]		345 [156]		434 [197]
150	110	388	353	204	187	125	MT2	553 [251]	MT2-E	627 [285]	MT2	365 [166]	MT2-E	469 [213]
200	150			274	250	168						415 [189]		514 [234]
250	185			340	312	209						578 [262]		600 [273]
300	200			410	374	251	MT3		MT3-E		MT3	585 [266]	MT3-E	670 [305]
350	250			475	436	292						800 [363]		1006 [456]
400	315			565	520	349						825 [374]		1031 [467]
500	400			720	660	443	LT1		LT1-E		LT1	915 [415]	LT1-E	1121 [508]
600	450			810	740	499						1098 [499]		1176 [535]
700	500			940	865	579						1700 [771]		1839 [834]
800	560			1075	985	662	LT2		LT2-E		LT2	1882 [854]	LT2-E	1954 [886]
900	630			1200	1100	736						1920 [871]		2054 [931]
1000	710			1335	1220	818						1950 [884]		2084 [945]
1100	800			1470	1340	900	LT3		LT3-E		LT3	2465 [1118]	LT3-E	2564 [1163]
1200	900			1610	1470	987						2568 [1167]		2958 [1245]
1300	970			1735	1585	1064						2718 [1236]		3408 [1549]
1400	1000			1870	1710	1145	HT2		HT2-E		HT2	2858 [1299]	HT2-E	3548 [1613]
1500	1120			2000	1835	1228						3598 [1635]		3690 [1677]
1600	1200			2145	1965	1316						3748 [1703]		3840 [1745]
1800	1350			2410	2210	1481	HT3		HT3-E		HT3	3848 [1749]	HT3-E	4376 [1943]
2000	1450			2670	2440	1636						3978 [1808]		4506 [2048]
2300	1700			3065	2810	1882						4075 [1850]		4600 [2088]
2500	1850			3335	3050	2045	HT3		HT3-E		HT3	4650 [2111]	HT3-E	4750 [2157]
2800	2100			3750	3435	2303						5000 [2270]		5100 [2315]
3000	2250			4020	3680	2468						5225 [2372]		
3500	2600			4265	3905	2618			5550 [2520]					

Motor Size		Lineator Rating				480V (60Hz), 600V / 690V (50Hz)				600V / 690V (60Hz)			
HP	kW	Input Amps (3-Phase)				Standard Enclosure		Enhanced Enclosure		Standard Enclosure		Enhanced Enclosure	
		460/480V	575/600V	660/690V	Output kW	Case Style	Weight lbs [kg]	Case Style	Weight lbs [kg]	Case Style	Weight lbs [kg]	Case Style	Weight lbs [kg]
5	4				4.5	SU1	58 [26]	SU1-E	68 [31]	SU1	57 [26]	SU1-E	67 [30]
7.5	5.5				6.3	SU2	67 [30]	SU2-E	77 [35]	SU2	67 [30]	SU2-E	77 [35]
10	7.5				8.5		78 [35]		88 [40]		77 [35]		87 [39]
15	11				13		90 [41]		100 [45]		86 [39]		96 [44]
20	15				17	SU3	118 [54]	SU3-E	128 [58]	SU3	98 [45]	SU3-E	128 [58]
25	18.5				21		130 [59]		140 [64]		125 [57]		135 [61]
30	22				25		142 [65]		152 [69]		137 [62]		147 [67]
40	30				34	MT2	154 [70]	MT2-E	164 [74]	MT2	149 [68]	MT2-E	159 [72]
50	37.5				42		186 [84]		196 [89]		184 [83]		196 [89]
60	45				51		218 [99]		228 [103]		206 [94]		216 [98]
75	55				63	SU3	304 [138]	SU3-E	314 [142]	SU3	298 [135]	SU3-E	308 [140]
100	75				84		323 [147]		333 [151]		315 [143]		325 [147]
125	90				104		345 [156]		419 [191]		345 [156]		419 [191]
150	110				125	MT2	365 [166]	MT2-E	439 [200]	MT2	365 [166]	MT2-E	439 [200]
200	150				168		415 [189]		489 [222]		415 [189]		489 [222]
250	185				209		578 [262]		640 [290]		578 [262]		640 [290]
300	200				251	MT3	585 [266]	MT3-E	695 [316]	MT3	585 [266]	MT3-E	695 [316]
350	250				292		800 [363]		1006 [456]		780 [354]		1006 [456]
400	315				349		825 [374]		1031 [467]		805 [365]		1031 [467]
500	400				443	MT4	915 [415]	MT4-E	1121 [508]	MT4	915 [415]	MT4-E	1121 [510]
600	450				499		1398 [634]		1476 [670]		1398 [634]		1476 [670]
700	500				579		1700 [771]		1839 [834]		1650 [748]		1740 [789]
800	560				662	LT1	1882 [854]	LT1-E	1954 [886]	LT1	1805 [819]	LT1-E	1852 [842]
900	630				736		1920 [871]		2054 [931]		1882 [854]		2054 [932]
1000	710				818		1950 [884]		2084 [945]		1915 [869]		2064 [936]
1100	800				900	LT2	2465 [1118]	LT2-E	2564 [1163]	LT2	2331 [1057]	LT2-E	2515 [1141]
1200	900				987		2568 [1167]		2958 [1245]		2465 [1121]		2855 [1298]
1300	970				1064		2718 [1236]		3408 [1549]		2609 [1186]		2999 [1363]
1400	1000				1145	LT3	2858 [1299]	LT3-E	3548 [1613]	LT3	2782 [1265]	LT3-E	3172 [1442]
1500	1120				1228		3598 [1635]		3690 [1677]		3540 [1606]		3620 [1642]
1600	1200				1316		3748 [1703]		3840 [1745]		3702 [1679]		3800 [1724]
1800	1350				1481	HT2	3848 [1749]	HT2-E	4376 [1943]	HT2	3798 [1723]	HT2-E	3875 [1758]
2000	1450				1636		3978 [1808]		4506 [2048]		3945 [1789]		4250 [1928]
2300	1700				1882		4075 [1850]		4600 [2088]		4015 [1821]		4340 [1969]
2500	1850				2045	HT3	4650 [2111]	HT3-E	4750 [2157]	HT3	4600 [2087]	HT3-E	4750 [2155]
2800	2100				2303		5000 [2270]		5100 [2315]		4945 [2243]		5100 [2313]
3000	2250				2468		5225 [2372]				5180 [2350]		
3500	2600				2618			5550 [2520]					

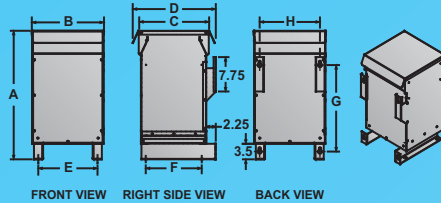
* When the VSD requires a bypass, the LINEATOR must also be bypassed as shown.

1. For type 'T' Lineator use enclosure and weights from the next size up.

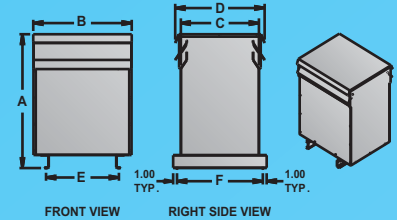
Dimensions



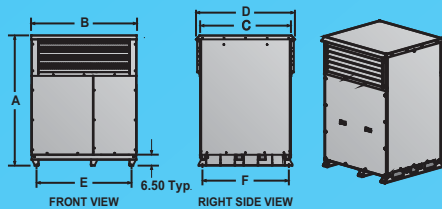
'SU' ENCLOSURE



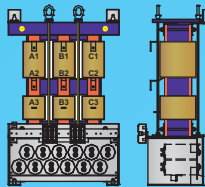
'MT1', 'MT2' ENCLOSURE



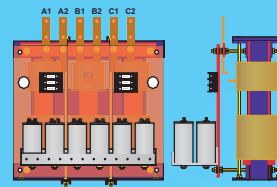
'MT3', 'MT4', 'LT' ENCLOSURE



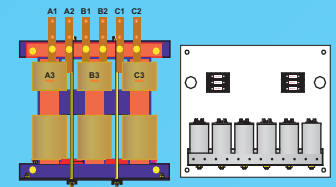
'HT' ENCLOSURE



'E0P' PANEL MOUNT



'E0' OPEN STYLE



'E0M' MODULAR

CASE STYLE		DIMENSIONS - inches [mm]							
Standard	Enhanced	A	B	C	D	E	F	G	H
SU1	SU1-E	23.50 [597]	11.25 [286]	8.75 [222]	11.25 [286]	8.00 [203]	9.00 [229]	13.00 [330]	9.00 [229]
SU2	SU2-E	29.50 [749]	13.25 [336]	10.25 [260]	12.75 [324]	9.00 [229]	10.00 [254]	19.00 [483]	11.00 [279]
SU3	SU3-E	34.00 [864]	20.25 [514]	13.25 [336]	16.00 [406]	17.50 [445]	13.00 [330]	20.00 [508]	18.00 [457]
MT2	MT2-E	38.00 [965]	21.50 [546]	19.50 [495]	23.50 [597]	17.00 [432]	17.50 [445]	25.00 [635]	
MT3	MT3-E	45.00 [1143]	26.00 [661]	21.00 [534]	25.00 [635]	21.50 [546]	19.00 [483]		
MT4	MT4-E	51.50 [1308]	32.00 [813]	25.50 [648]	29.50 [749]	23.50 [597]	23.50 [597]		
LT1	LT1-E	59.00 [1499]	39.50 [1003]	30.00 [762]	34.00 [864]	24.00 [610]	32.00 [813]		
LT2	LT2-E	66.00 [1677]	44.00 [1118]	34.00 [864]	38.00 [965]	26.00 [660]	36.00 [915]		
LT3	LT3-E	75.00 [1905]	48.50 [1232]	39.00 [991]	43.00 [1092]	27.50 [699]	41.00 [1041]		
HT2	HT2-E	78.00 [1981]	58.50 [1486]	51.00 [1295]	56.25 [1428]	52.50 [1333]	50.75 [1289]		
HT3	HT3-E	84.00 [2134]	68.50 [1740]	59.00 [1499]	64.50 [1638]	62.50 [1587]	58.75 [1492]		

Ordering Information AHUF-15-600-60-D-EOP

Model	Motor Horsepower	Line Voltage	Frequency	Load Type	Enclosure Type	Optional
AUHF	HP	VVV	Hz	L	En	O
Advanced	5	208	50	D ^[1]	E0	E
Universal	to	240	60	Diode Bridge	No Enclosure (250 to 3500HP)	Nema 3R [IP23]
Harmonic	3500	400		Rectifier	EOP	Enhanced
Filter		440		T ^[2]	Panel Mount (5 to 200HP)	
		480		Thyristor Bridge	EOM	
		600		Rectifier	Modular (250 to 3500HP)	
		690			E1	
		(VAC)			Nema 3R [IP23] Ventilated (5 to 3500HP)	

1. 'D' type AUHF is suitable for standard diode bridge and diode/SCR precharged front-end VSD's.
2. 'T' type AUHF is suitable for DC drives, Current Source Inverters and other controlled rectifier loads.