

Cross reference to Rockwell
Part # PN-147531

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]

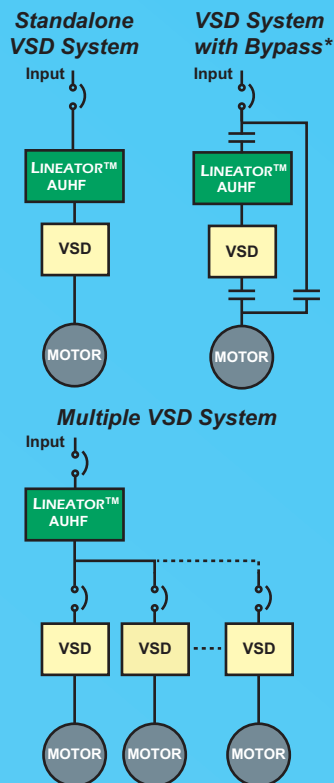
Paint: Polyester powder coated

Color: ANSI 61 Grey

OPTIONS:

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

Typical LINEATOR Applications



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

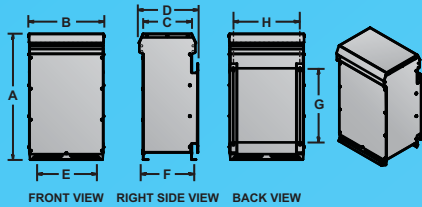
Rating Tables: (type 'D' Lineator)^[1]

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	SU1	76 [35]	SU1-E	86 [39]	SU1	67 [30]	SU1-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]		SU2-E		127 [58]		SU2
20	15	53	48	28	25	17	138 [63]	SU2-E	148 [67]	118 [54]	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	SU3	189 [86]	SU3-E	199 [90]	SU3	142 [65]	SU3-E	152 [69]
40	30	105	95	55	51	34		253 [115]	SU3-E	263 [119]		154 [70]		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	MT2	315 [143]	MT2-E	337 [153]	SU3	218 [99]	SU3-E	228 [103]
75	55	196	178	103	95	63		325 [148]	399 [181]	304 [138]		314 [142]		
100	75	260	236	137	125	84		442 [201]	516 [235]	323 [147]		334 [157]		414 [188]
125	90	323	294	170	156	104	MT2	468 [213]	MT3-E	542 [246]	MT2	345 [156]	MT2-E	434 [197]
150	110	388	353	204	187	125		553 [251]	627 [285]	365 [166]		375 [171]		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			585 [266]	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			915 [415]	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								
900	630			1200	1100	736								
1000	710			1335	1220	818								
1100	800			1470	1340	900								
1200	900			1610	1470	987								
1300	970			1735	1585	1064								
1400	1000			1870	1710	1145								
1500	1120			2000	1835	1228								
1600	1200			2145	1965	1316								
1800	1350			2410	2210	1481								
2000	1450			2670	2440	1636								
2300	1700			3065	2810	1882								
2500	1850			3335	3050	2045								
2800	2100			3750	3435	2303								
3000	2250			4020	3680	2468								
3500	2600			4265	3905	2618								

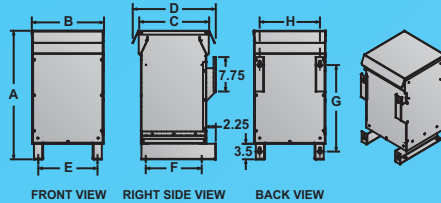
Motor Size		Lineator Rating				480V (60Hz), 600V / 690V (50Hz)				600V / 690V (60Hz)				
HP	kW	Input Amps (3-Phase)				Standard Enclosure		Enhanced Enclosure		Standard Enclosure		Enhanced Enclosure		
		460/480V	575/600V	660/690V	Output kW	Case Style	Weight lbs [kg]	Case Style	Weight lbs [kg]	Case Style	Weight lbs [kg]	Case Style	Weight lbs [kg]	
5	4		7	5	5	4.5	SU1	58 [26]	SU1-E	68 [31]	SU1	57 [26]	SU1-E	67 [30]
7.5	5.5		9	7	6	6.3		67 [30]		77 [35]		67 [30]		77 [35]
10	7.5		12	10	8	8.5		78 [35]		88 [40]		77 [35]		87 [39]
15	11		17	14	12	13	SU2	90 [41]	SU2-E	100 [45]	SU2	86 [39]	SU2-E	96 [44]
20	15		23	18	16	17		118 [54]		128 [58]		98 [45]		128 [58]
25	18.5		29	23	20	21		130 [59]		140 [64]		125 [57]		135 [61]
30	22		34	28	24	25	SU3	142 [65]	SU3-E	152 [69]	SU3	137 [62]	SU3-E	147 [67]
40	30		46	37	32	34		154 [70]		164 [74]		149 [68]		159 [72]
50	37.5		57	45	40	42		186 [84]		196 [89]		184 [83]		196 [89]
60	45		69	55	48	51	MT2	218 [99]	MT2-E	228 [103]	MT2	206 [94]	MT2-E	216 [98]
75	55		85	68	59	63		304 [138]		314 [142]		298 [135]		308 [140]
100	75		113	90	79	84		323 [147]		333 [151]		315 [143]		325 [147]
125	90		141	112	98	104	MT3	345 [156]	MT3-E	419 [191]	MT3	345 [156]	MT3-E	419 [191]
150	110		169	135	118	125		365 [166]		439 [200]		365 [166]		439 [200]
200	150		226	180	158	168		415 [189]		489 [222]		415 [189]		489 [222]
250	185		281	225	196	209	MT4	578 [262]	MT4-E	640 [290]	MT4	578 [262]	MT4-E	640 [290]
300	200		337	270	235	251		585 [266]		695 [316]		585 [266]		695 [316]
350	250		395	315	275	292		800 [363]		1006 [456]		780 [354]		1006 [456]
400	315		470	375	325	349	LT1	825 [374]	LT1-E	1031 [467]	LT1	805 [365]	LT1-E	1031 [467]
500	400		595	475	415	443		915 [415]		1121 [508]		915 [415]		1121 [510]
600	450		670	535	470	499		1398 [634]		1476 [670]		1398 [634]		1476 [670]
700	500		780	625	545	579	LT2	1700 [771]	LT2-E	1839 [834]	LT2	1650 [748]	LT2-E	1740 [789]
800	560		890	715	620	662		1882 [854]		1954 [886]		1805 [819]		1852 [842]
900	630		990	795	690	736		1920 [871]		2054 [931]		1882 [854]		2054 [932]
1000	710		1100	880	770	818	LT3	1950 [884]	LT3-E	2084 [945]	LT3	1915 [869]	LT3-E	2064 [936]
1100	800		1210	970	845	900		2465 [1118]		2564 [1163]		2331 [1057]		2515 [1141]
1200	900		1330	1060	925	987		2718 [1236]		2958 [1245]		2609 [1186]		2855 [1298]
1300	970		1430	1145	1000	1064	HT2	1540 [1235]	HT2-E	3408 [1549]	HT2	2609 [1186]	HT2-E	3172 [1442]
1400	1000		1540	1235	1075	1145		2858 [1299]		3548 [1613]		2782 [1265]		3172 [1442]
1500	1120		1650	1325	1155	1228		3598 [1635]		3690 [1677]		3540 [1606]		3620 [1642]
1600	1200		1770	1415	1235	1316	HT2	3748 [1703]	HT3-E	3840 [1745]	HT2	3702 [1679]	HT3-E	3800 [1724]
1800	1350		1990	1595	1390	1481		3848 [1749]		4376 [1943]		3798 [1723]		3875 [1758]
2000	1450		2200	1765	1535	1636		3978 [1808]		4506 [2048]		3945 [1789]		4250 [1928]
2300	1700		2530	2030	1765	1882	HT3	4075 [1850]	HT3-E	4600 [2088]	HT3	4015 [1821]	HT3-E	4340 [1969]
2500	1850		2755	2205	1920	2045		4650 [2111]		4750 [2157]		4600 [2087]		4750 [2155]
2800	2100		3100	2480	2160	2303		5000 [2270]		5100 [2315]		4945 [2243]		5100 [2313]
3000	2250		3320	2660	2315	2468	HT3	5225 [2372]	HT3	5180 [2350]	HT3	5180 [2350]	HT3	5180 [2350]
3500	2600		3855	3085	2685	2618		5550 [2520]		5550 [2520]		5490 [2490]		5490 [2490]

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

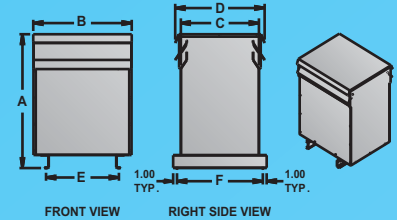
Dimensions



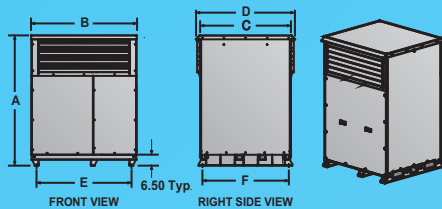
'SU' ENCLOSURE



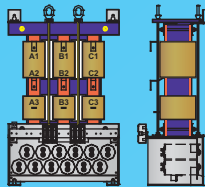
'MT1', 'MT2' ENCLOSURE



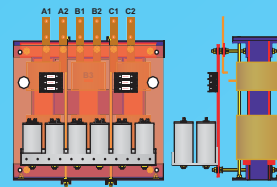
'MT3', 'MT4', 'LT' ENCLOSURE



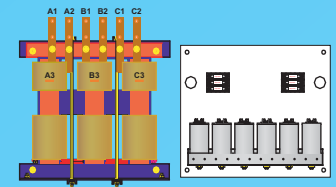
'HT' ENCLOSURE



'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

AUHF-25-600-60-D-E1

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 Rectifier	No Enclosure (250 to 3500HP)	Nema 3R [IP23]
Harmonic Filter	3500	400		T ^[2]	EOP	Enhanced
		440		Thyristor Bridge Rectifier	Panel Mount (5 to 200HP)	
		480			EOM	
		600			Modular (250 to 3500HP)	
		690 (VAC)			E1	
					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.