

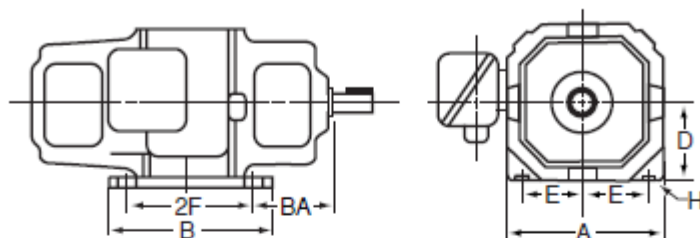
NEMA FRAME ASSIGNMENTS - DC - **GUIDE**

TECHNICAL INFORMATION EDUCATION SERIES



NEMA FRAME DIMENSIONS*

FOOT-MOUNTED DC MACHINES



* Dimensions in Inches

FRAME	A MAX	B MAX	D	E	2F	BA	H
42			2.62	1.75	1.69	2.06	0.28
48			3.00	2.12	2.75	2.50	0.34
56			3.50	2.44	3.00	2.75	0.34
56H			3.50	2.44	5.00	2.75	0.34
142AT	7.00	6.75	3.50	2.75	3.50	2.75	0.34
143AT	7.00	7.25	3.50	2.75	4.00	2.75	0.34
144AT	7.00	7.75	3.50	2.75	4.50	2.75	0.34
145AT	7.00	8.25	3.50	2.75	5.00	2.75	0.34
146AT	7.00	8.75	3.50	2.75	5.50	2.75	0.34
147AT	7.00	9.50	3.50	2.75	6.25	2.75	0.34
148AT	7.00	10.25	3.50	2.75	7.00	2.75	0.34
149AT	7.00	11.25	3.50	2.75	8.00	2.75	0.34
1410AT	7.00	12.25	3.50	2.75	9.00	2.75	0.34
1411AT	7.00	13.25	3.50	2.75	10.00	2.75	0.34
1412AT	7.00	14.25	3.50	2.75	11.00	2.75	0.34
162AT	8.00	6.00	4.00	3.12	4.00	2.50	0.41
163AT	8.00	6.50	4.00	3.12	4.50	2.50	0.41
164AT	8.00	7.00	4.00	3.12	5.00	2.50	0.41
165AT	8.00	7.50	4.00	3.12	5.50	2.50	0.41
166AT	8.00	8.20	4.00	3.12	6.25	2.50	0.41
167AT	8.00	9.00	4.00	3.12	7.00	2.50	0.41
168AT	8.00	10.00	4.00	3.12	8.00	2.50	0.41
169AT	8.00	11.00	4.00	3.12	9.00	2.50	0.41
1610AT	8.00	12.00	4.00	3.12	10.00	2.50	0.41
182AT	9.00	6.50	4.50	3.75	4.50	2.75	0.41
183AT	9.00	7.00	4.50	3.75	5.00	2.75	0.41
184AT	9.00	7.50	4.50	3.75	5.50	2.75	0.41
185AT	9.00	8.25	4.50	3.75	6.25	2.75	0.41
186AT	9.00	9.00	4.50	3.75	7.00	2.75	0.41
187AT	9.00	10.00	4.50	3.75	8.00	2.75	0.41
188AT	9.00	11.00	4.50	3.75	9.00	2.75	0.41
189AT	9.00	12.00	4.50	3.75	10.00	2.75	0.41
2110AT	9.00	13.00	4.50	3.75	11.00	2.75	0.41
213AT	10.50	7.50	5.25	4.25	5.50	3.50	0.41
214AT	10.50	8.25	5.25	4.25	6.25	3.50	0.41
215AT	10.50	9.00	5.25	4.25	7.00	3.50	0.41
216AT	10.50	10.00	5.25	4.25	8.00	3.50	0.41
217AT	10.50	11.00	5.25	4.25	9.00	3.50	0.41
218AT	10.50	12.00	5.25	4.25	10.00	3.50	0.41
219AT	10.50	13.00	5.25	4.25	11.00	3.50	0.41
2110AT	10.50	14.50	5.25	4.25	12.50	3.50	0.41
253AT	12.50	9.50	6.25	5.00	7.00	4.25	0.53
254AT	12.50	10.75	6.25	5.00	8.25	4.25	0.53
255AT	12.50	11.50	6.25	5.00	9.00	4.25	0.53
256AT	12.50	12.50	6.25	5.00	10.00	4.25	0.53
257AT	12.50	13.50	6.25	5.00	11.00	4.25	0.53
258AT	12.50	15.00	6.25	5.00	12.50	4.25	0.53
259AT	12.50	16.50	6.25	5.00	14.00	4.25	0.53

NEMA FRAME DIMENSIONS*

FOOT-MOUNTED DC MACHINES—CONTINUED

* Dimensions in Inches

FRAME	A MAX	B MAX	D	E	2F	BA	H†
283AT	14.00	11.00	7.00	5.50	8.00	4.75	0.53
284AT	14.00	12.50	7.00	5.50	9.50	4.75	0.53
285AT	14.00	13.00	7.00	5.50	10.00	4.75	0.53
286AT	14.00	14.00	7.00	5.50	11.00	4.75	0.53
287AT	14.00	15.50	7.00	5.50	12.50	4.75	0.53
288AT	14.00	17.00	7.00	5.50	14.00	4.75	0.53
289AT	14.00	19.00	7.00	5.50	16.00	4.75	0.53
323AT	16.00	12.50	8.00	6.25	9.00	5.25	0.66
324AT	16.00	14.00	8.00	6.25	10.50	5.25	0.66
325AT	16.00	14.50	8.00	6.25	11.00	5.25	0.66
326AT	16.00	15.50	8.00	6.25	12.00	5.25	0.66
327AT	16.00	17.50	8.00	6.25	14.00	5.25	0.66
328AT	16.00	19.50	8.00	6.25	16.00	5.25	0.66
329AT	16.00	21.50	8.00	6.25	18.00	5.25	0.66
363AT	18.00	14.00	9.00	7.00	10.00	5.88	0.81
364AT	18.00	15.25	9.00	7.00	11.25	5.88	0.81
365AT	18.00	16.25	9.00	7.00	12.25	5.88	0.81
366AT	18.00	18.00	9.00	7.00	14.00	5.88	0.81
367AT	18.00	20.00	9.00	7.00	16.00	5.88	0.81
368AT	18.00	22.00	9.00	7.00	18.00	5.88	0.81
369AT	18.00	24.00	9.00	7.00	20.00	5.88	0.81
403AT	20.00	15.00	10.00	8.00	11.00	6.62	0.94
404AT	20.00	16.25	10.00	8.00	12.25	6.62	0.94
405AT	20.00	17.75	10.00	8.00	13.75	6.62	0.94
406AT	20.00	20.00	10.00	8.00	16.00	6.62	0.94
407AT	20.00	22.00	10.00	8.00	18.00	6.62	0.94
408AT	20.00	24.00	10.00	8.00	20.00	6.62	0.94
409AT	20.00	26.00	10.00	8.00	22.00	6.62	0.94
443AT	22.00	16.50	11.00	9.00	12.50	7.50	1.06
444AT	22.00	18.50	11.00	9.00	15.00	7.50	1.06
445AT	22.00	20.50	11.00	9.00	16.50	7.50	1.06
446AT	22.00	22.00	11.00	9.00	18.00	7.50	1.06
447AT	22.00	24.00	11.00	9.00	20.00	7.50	1.06
448AT	22.00	26.00	11.00	9.00	22.00	7.50	1.06
449AT	22.00	29.00	11.00	9.00	25.00	7.50	1.06
502AT	25.00	17.50	12.50	10.00	12.50	8.50	1.19
503AT	25.00	19.00	12.50	10.00	14.00	8.50	1.19
504AT	25.00	21.00	12.50	10.00	16.00	8.50	1.19
505AT	25.00	23.00	12.50	10.00	18.00	8.50	1.19
506AT	25.00	25.00	12.50	10.00	20.00	8.50	1.19
507AT	25.00	27.00	12.50	10.00	22.00	8.50	1.19
508AT	25.00	30.00	12.50	10.00	25.00	8.50	1.19
509AT	25.00	33.00	12.50	10.00	28.00	8.50	1.19
583A	29.00	21.00	14.50	11.50	16.00	10.00	1.19
584A	29.00	23.00	14.50	11.50	18.00	10.00	1.19
585A	29.00	25.00	14.50	11.50	20.00	10.00	1.19
586A	29.00	27.00	14.50	11.50	22.00	10.00	1.19
587A	29.00	30.00	14.50	11.50	25.00	10.00	1.19
588A	29.00	33.00	14.50	11.50	28.00	10.00	1.19
683A	34.00	25.00	17.00	13.50	20.00	11.50	1.19
684A	34.00	27.00	17.00	13.50	22.00	11.50	1.19
685A	34.00	30.00	17.00	13.50	25.00	11.50	1.19
686A	34.00	33.00	17.00	13.50	28.00	11.50	1.19
687A	34.00	37.00	17.00	13.50	32.00	11.50	1.19
688A	34.00	41.00	17.00	13.50	36.00	11.50	1.19

References and tolerances on dimensions: NEMA MG 1-1998 (Rev. 3), 4.5.1, 4.5.2, 4.5.3 and 4.9.

† Frames 42 to 56H, inclusive—The H dimension is *Width of Slot*. Frames 142AT to 688A, inclusive—The H dimension is *Diameter of Hole*.



Source The Electrical Engineering Pocket Handbook
Electrical Apparatus Service Association



TECHNICAL INFORMATION EDUCATION SERIES

