

HEAT GAIN FROM TYPICAL ELECTRIC MOTORS

Motor Name- plate or Rated Horse- power	Motor Type	Nom- inal rpm	Full Load Motor Effici- ency in Percent	Motor In, Driven Equip- ment In Space BTU/h	Motor Out, Driven Equip- ment In Space BTU/h	Motor 2nd Driven Equip- ment Out of Space BTU/h
0.25	Split Ph.	1750	54	1,180	640	540
0.33	Split Ph.	1750	56	1,500	840	660
0.50	Split Ph.	1750	60	2,120	1,270	850
0.75	3-Ph.	1750	72	2,650	1,900	740
1	3-Ph.	1750	75	3,390	2,550	850
1	3-Ph.	1750	77	4,960	3,820	1,140
2	3-Ph.	1750	79	6,440	5,090	1,350
3	3-Ph.	1750	81	9,430	7,640	1,790
5	3-Ph.	1750	82	15,500	12,700	2,790
7.5	3-Ph.	1750	84	22,700	19,100	3,640
10	3-Ph.	1750	85	29,900	24,500	4,490
15	3-Ph.	1750	86	44,400	38,200	6,210
20	3-Ph.	1750	87	58,500	50,900	7,610
25	3-Ph.	1750	88	72,300	63,600	8,680
30	3-Ph.	1750	89	85,700	76,300	9,440
40	3-Ph.	1750	89	114,000	102,000	12,600
50	3-Ph.	1750	89	143,000	127,000	15,700
60	3-Ph.	1750	89	172,000	153,000	18,900
75	3-Ph.	1750	90	212,000	191,000	21,200
100	3-Ph.	1750	90	283,000	255,000	28,300
125	3-Ph.	1750	90	353,000	318,000	35,300
150	3-Ph.	1750	91	420,000	382,000	37,800
200	3-Ph.	1750	91	569,000	509,000	50,300
250	3-Ph.	1750	91	699,000	636,000	62,900

Adapted from Chapter 26 ASHRAE "Fundamentals" Handbook, 1989.