



CLASS G30 HEATER UNITS

SELECTION, PRICES

Select heater units as follows:

1. Obtain full-load current and service factor from motor name plate or from motor manufacturer. (Do not estimate full-load motor current from horsepower tables.)
2. Determine if one, two, or three overload relays are needed.
3. Select proper heater unit from tables according to class, size, type of enclosure and number of overload relays. Full-load motor currents should be within the **Min.-Max.** ratings shown for the correct number of overload relays being used.

Note: The tables apply to standard, open-type, continuous-duty motors (1.15 service factor, 40° C rise) in applications where motor and starter are located in the same ambient temperature. For applications of other motors with a service factor of 1.0, 50-55° C rise, such as totally enclosed and explosion-proof, or for installations where ambient temperatures at motor and starter are different, refer to Chart A for selection of heater units.

4. Do not use heater tables for hermetically sealed or submersible motors—refer to factory.

TABLE 1—NEMA Size 00, 0, 1
 Class A20—In NEMA 1, 4, 7, 9 or 12 Enclosure
 Class A21, A22—In NEMA 1 or 12 Enclosure
 Class L10, P20, P21—In NEMA 1 Enclosure

Max. Starter Size	Heater Cat. No.	List Price	FULL-LOAD MOTOR CURRENT—Amperes					
			1 Overload Relays		2 Overload Relays		3 Overload Relays	
			Min.	Max.	Min.	Max.	Min.	Max.
00	G30T6	\$1.50	.30	.33	.30	.32	.27	.29
	G30T7		.34	.36	.33	.35	.30	.32
	G30T8		.37	.40	.36	.39	.33	.35
	G30T9		.41	.43	.40	.42	.36	.38
	G30T10		.44	.47	.43	.46	.39	.42
	G30T11		.48	.53	.47	.52	.43	.47
	G30T12		.54	.58	.53	.57	.48	.52
	G30T13		.59	.65	.58	.65	.53	.59
	G30T14		.66	.74	.66	.72	.60	.67
	G30T15		.75	.82	.73	.80	.68	.73
	G30T16		.83	.92	.81	.90	.74	.82
	G30T17		.93	1.01	.91	.99	.83	.90
	G30T18		1.02	1.09	1.00	1.07	.91	.97
	G30T19		1.10	1.21	1.08	1.17	.98	1.06
	G30T20		1.22	1.33	1.18	1.30	1.07	1.18
	G30T21		1.34	1.45	1.31	1.42	1.19	1.29
	G30T22		1.46	1.56	1.43	1.53	1.30	1.39
	G30T23		1.57	1.72	1.54	1.69	1.40	1.54
	G30T24		1.73	1.95	1.70	1.91	1.55	1.74
	G30T25		1.96	2.15	1.92	2.11	1.75	1.92
	G30T26		2.16	2.36	2.12	2.31	1.93	2.10
	G30T27		2.37	2.60	2.32	2.55	2.11	2.32
	G30T28		2.61	2.93	2.56	2.87	2.33	2.61
	G30T29		2.94	3.26	2.88	3.19	2.62	2.90
	G30T30		3.27	3.75	3.20	3.59	2.91	3.31
G30T31	3.76	4.22	3.60	4.02	3.32	3.71		
G30T32	4.23	4.71	4.03	4.47	3.72	4.11		
G30T33	4.72	4.97	4.48	4.72	4.12	4.39		
G30T34	4.98	5.45	4.73	5.19	4.40	4.79		
G30T35	5.46	5.96	5.20	5.67	4.80	5.27		
G30T36	5.97	6.76	5.68	6.43	5.28	5.99		
G30T37	6.77	7.64	6.44	7.27	6.00	6.71		
G30T38	7.65	8.55	7.28	8.14	6.72	7.47		
G30T39	8.56	9.55	8.15	9.11	7.48	8.39		
G30T40	9.56	10.6	9.12	10.3	8.40	9.55		
0	G30T41	1.50	10.7	11.8	10.4	11.3	9.56	10.4
	G30T42		11.9	12.5	11.4	11.9	10.5	11.1
	G30T43		12.6	13.9	12.0	13.3	11.2	11.7
	G30T44		14.0	14.9	13.4	14.2	11.8	12.9
	G30T45		15.0	16.3	14.3	15.5	13.0	14.0
	G30T46		16.4	18.4	15.6	17.5	14.1	15.9
1	G30T47	1.50	18.5	19.7	17.6	18.8	16.0	17.1
	G30T48		19.8	20.8	18.9	20.7	17.2	18.5
	G30T49		20.9	24.8	20.8	23.5	18.6	20.6
	G30T50		24.9	27.7	23.6	26.3	20.7	23.2
	G30T51		27.8	30.0	26.4	30.0	23.3	26.3
	G30T52		—	—	—	—	26.4	30.0

CHART A
VARIATIONS BY OPERATING CONDITIONS

Motor Continuous Rating °C Rise	Heater Requirements By Operating Conditions		
	Ambient Same At Starter And Motor	Ambient Higher At Starter Than At Motor	Ambient Lower At Starter Than At Motor
1.15 service factor 40° C rise	As specified from tables	One size larger than specified for each 15° C difference	One size smaller than specified for each 15° C difference
1.0 service factor 50-55° C rise	One size smaller than for 1.15 service factor above	One size smaller than for 1.15 service factor above	One size smaller than for 1.15 service factor above

The current at which heaters will trip the overload relay with the knob at 100% mark in an ambient of 40° C is 1.25 times the minimum full load motor current in the table. Heaters so selected give 125% protection.

TABLE 2—NEMA Size 00, 0, 1
 Class A20-A22, L10, P20, P21—In Control Center or Panelboard
 Class A30—In NEMA 1, 4 or 12 Enclosure
 Class A31—In NEMA 1, 4, 7, 9 or 12 Enclosure
 Class A32-A35, A50, A55—In NEMA 1 or 12 Enclosure
 Class B10, B11

Max. Starter Size	Heater Cat. No.	List Price	FULL-LOAD MOTOR CURRENT—Amperes							
			1 Overload Relays		2 Overload Relays		3 Overload Relays			
			Min.	Max.	Min.	Max.	Min.	Max.		
00	G30T6	\$1.50	.32	.35	.32	.34	.29	.31		
	G30T7		.36	.39	.35	.38	.32	.34		
	G30T8		.40	.43	.39	.42	.35	.37		
	G30T9		.44	.46	.43	.45	.38	.41		
	G30T10		.47	.50	.46	.49	.42	.45		
	G30T11		.51	.57	.50	.56	.46	.50		
	G30T12		.58	.62	.57	.61	.51	.56		
	G30T13		.63	.70	.62	.70	.57	.63		
	G30T14		.71	.79	.71	.77	.64	.70		
	G30T15		.80	.88	.78	.86	.71	.78		
	G30T16		.89	.98	.87	.96	.79	.87		
	G30T17		.99	1.08	.97	1.06	.88	.96		
	G30T18		1.09	1.17	1.07	1.14	.97	1.04		
	G30T19		1.18	1.29	1.15	1.25	1.05	1.11		
	G30T20		1.30	1.42	1.26	1.39	1.12	1.24		
	G30T21		1.43	1.55	1.40	1.52	1.25	1.35		
	G30T22		1.56	1.67	1.53	1.64	1.36	1.46		
	G30T23		1.68	1.84	1.65	1.81	1.47	1.62		
	G30T24		1.85	2.09	1.82	2.04	1.63	1.83		
	G30T25		2.10	2.30	2.05	2.26	1.84	2.02		
	G30T26		2.31	2.53	2.27	2.47	2.03	2.20		
	G30T27		2.54	2.78	2.48	2.73	2.21	2.44		
	G30T28		2.79	3.13	2.74	3.07	2.45	2.74		
	G30T29		3.14	3.49	3.08	3.41	2.75	3.05		
	G30T30		3.50	4.04	3.42	3.84	3.06	3.47		
	G30T31		4.05	4.52	3.85	4.31	3.48	3.89		
	G30T32		4.53	5.04	4.32	4.80	3.90	4.33		
	G30T33		5.05	5.33	4.81	5.05	4.34	4.62		
	G30T34		5.34	5.83	5.06	5.55	4.63	5.03		
	G30T35		5.84	6.39	5.56	6.06	5.04	5.54		
	G30T36		6.40	7.24	6.07	6.89	5.55	6.29		
	G30T37		7.25	8.17	6.90	7.79	6.30	7.04		
	G30T38		8.18	9.15	7.80	8.71	7.05	7.85		
	G30T39		9.16	10.1	8.72	9.74	7.86	8.81		
	0		G30T40	1.50	10.2	11.3	9.75	10.8	8.82	9.84
			G30T41		11.4	12.6	10.9	12.1	9.85	10.9
			G30T42		12.7	13.4	12.2	12.7	11.0	11.6
			G30T43		13.5	14.9	12.8	14.2	11.7	12.3
			G30T44		15.0	15.9	14.3	15.1	12.4	13.6
G30T45		16.0	17.4		15.2	16.6	13.7	14.7		
1	G30T46	1.50	17.5	19.6	16.7	18.7	14.8	16.7		
	G30T47		19.7	21.2	18.8	20.1	16.8	18.0		
	G30T48		21.3	22.2	20.2	22.2	18.1	19.4		
	G30T49		22.3	26.5	22.3	25.4	19.5	21.6		
	G30T50		26.6	29.5	25.5	28.2	21.7	24.3		
	G30T51		29.6	30.0	28.3	30.0	24.4	27.7		
	G30T52		—	—	—	—	27.8	30.0		



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TABLE 3—NEMA Size 1½
Class A20—In NEMA 1 or 12 Enclosure

Heater Cat. No.	List Price	FULL-LOAD MOTOR CURRENT—Amperes	
		1 Overload Relay	
		Min.	Max.
G30T43	\$1.50	—	—
G30T44		14.3	14.9
G30T45		15.0	16.3
G30T46		16.4	18.4
G30T47		18.5	19.7
G30T48		19.8	21.8
G30T49		21.9	24.8
G30T50		24.9	27.7
G30T51		27.8	29.1
G30T52		29.2	32.8
G30T53	32.9	36.0	
G30T54	36.1	39.0	

TABLE 4—NEMA Size 1½
Class A20—In Control Center or Panelboard

Heater Cat. No.	List Price	FULL-LOAD MOTOR CURRENT—Amperes	
		1 Overload Relay	
		Min.	Max.
G30T43	\$1.50	13.5	14.9
G30T44		15.0	15.9
G30T45		16.0	17.4
G30T46		17.5	19.6
G30T47		19.7	21.2
G30T48		21.3	23.4
G30T49		23.5	26.5
G30T50		26.6	29.5
G30T51		29.6	31.2
G30T52		31.3	35.1
G30T53	35.2	39.0	
G30T54	—	—	

TABLE 5—NEMA Size 2
Class A20—In NEMA 1, 4, 7, 9 or 12 Enclosure
Class A21, A22—In NEMA 1 or 12 Enclosure
Class L10—In NEMA 1 Enclosure

Heater Cat. No.	List Price	FULL-LOAD MOTOR CURRENT—Amperes			
		2 Overload Relays		3 Overload Relays	
		Min.	Max.	Min.	Max.
G30T36	\$1.50	6.00	6.75	5.76	6.49
G30T37		6.76	7.35	6.50	7.06
G30T38		7.36	8.33	7.07	7.99
G30T39		8.34	9.43	8.00	9.07
G30T40		9.44	10.7	9.08	9.99
G30T41		10.8	11.9	10.0	11.1
G30T42		12.0	12.6	11.2	12.1
G30T43		12.7	13.6	12.2	13.1
G30T44		13.7	14.2	13.2	13.7
G30T45		14.3	15.5	13.8	14.9
G30T46	15.6	17.1	15.0	16.5	
G30T47	17.2	17.9	16.6	17.2	
G30T48	18.0	20.7	17.3	19.9	
G30T49	20.8	23.5	20.0	22.6	
G30T50	23.6	26.3	22.7	25.3	
G30T51	26.4	28.3	25.4	27.2	
G30T52	28.4	31.9	27.3	30.3	
G30T53	32.0	35.1	30.4	33.8	
G30T54	35.2	38.3	33.9	36.8	
G30T55	38.4	43.9	36.9	42.1	
G30T56	44.0	50.0	42.2	47.0	

TABLE 6—NEMA Size 2
Class A20-A22, L10—In Center or Panelboard
Class A30—In NEMA 1, 4 or 12 Enclosure
Class A31—In NEMA 1, 4, 7, 9 or 12 Enclosure
Class A32-A35, A50, A55—In NEMA 1 or 12 Enclosure
Class B10, B11

Heater Cat. No.	List Price	FULL-LOAD MOTOR CURRENT—Amperes			
		2 Overload Relays		3 Overload Relays	
		Min.	Max.	Min.	Max.
G30T36	\$1.50	6.42	7.22	6.16	6.94
G30T37		7.23	7.86	6.95	7.56
G30T38		7.87	8.92	7.57	8.55
G30T39		8.93	10.0	8.56	9.71
G30T40		10.1	11.5	9.72	10.6
G30T41		11.6	12.7	10.7	11.9
G30T42		12.8	13.5	12.0	13.0
G30T43		13.6	14.6	13.1	14.0
G30T44		14.7	15.2	14.1	14.7
G30T45		15.3	16.6	14.8	16.0
G30T46	16.7	18.3	16.1	17.7	
G30T47	18.4	19.2	17.8	18.4	
G30T48	19.3	22.2	18.5	21.3	
G30T49	22.3	25.2	21.4	24.2	
G30T50	25.3	28.2	24.3	27.1	
G30T51	28.3	30.3	27.2	29.1	
G30T52	30.4	34.1	29.2	32.4	
G30T53	34.2	37.6	32.5	36.2	
G30T54	37.7	41.0	36.3	39.4	
G30T55	41.1	47.0	39.5	45.1	
G30T56	47.1	53.5	45.2	50.3	



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TABLE 7—NEMA Size 3
 Class A20—In NEMA 1, 4, 7, 9 or 12 Enclosure
 Class L10—In NEMA 1 Enclosure

Heater Cat. No.	List Price	FULL-LOAD MOTOR CURRENT—Amperes			
		2 Overload Relays		3 Overload Relays	
		Min.	Max.	Min.	Max.
G30T46	\$1.50	20.0	22.3	18.4	20.7
G30T47		22.4	25.5	20.8	23.1
G30T48		25.6	26.3	23.2	25.5
G30T49		26.4	31.1	25.6	28.7
G30T50		31.2	32.7	28.8	31.1
G30T51		32.8	37.5	31.2	35.9
G30T52		37.6	42.3	36.0	38.3
G30T53		42.4	47.1	38.4	43.9
G30T54		47.2	49.5	44.0	47.2
G30T55		49.6	57.5	47.3	54.3
G30T56		57.6	63.9	54.4	60.7
G30T57		64.0	70.3	60.8	67.2
G30T58	70.4	77.5	67.3	74.3	
G30T59	77.6	84.9	74.4	81.5	
G30T60	85.0	95.1	81.6	89.9	
G30T61	95.2	100.0	90.0	100.0	

TABLE 8—NEMA Size 3
 Class A20-A22, L10—In Control Center or Panelboard
 Class A21, A22, A32-A35, A50, A55—In NEMA 1 or 12 Enclosure
 Class A30—In NEMA 1, 4 or 12 Enclosure
 Class A31—In NEMA 1, 4, 7, 9 or 12 Enclosure
 Class B10, B11

Heater Cat. No.	List Price	FULL-LOAD MOTOR CURRENT—Amperes			
		2 Overload Relays		3 Overload Relays	
		Min.	Max.	Min.	Max.
G30T46	\$1.50	20.8	23.9	19.2	21.5
G30T47		24.0	26.3	21.6	24.7
G30T48		26.4	27.9	24.8	25.3
G30T49		28.0	32.7	25.4	30.3
G30T50		32.8	35.1	30.4	32.7
G30T51		35.2	39.9	32.8	37.6
G30T52		40.0	45.5	37.7	40.7
G30T53		45.6	50.3	40.8	46.4
G30T54		50.4	52.7	46.5	49.6
G30T55		52.8	61.5	49.7	57.4
G30T56		61.6	68.7	57.5	63.9
G30T57		68.8	75.1	64.0	70.4
G30T58	75.2	83.3	70.5	78.4	
G30T59	83.4	89.9	78.5	85.5	
G30T60	90.0	100.0	85.6	95.1	
G30T61	—	—	95.2	100.0	

TABLE 9—NEMA Size 4
 Class A20—In NEMA 1, 4, 7, 9 or 12 Enclosure
 Class L10—In NEMA 1 Enclosure

Heater Cat. No.	List Price	FULL-LOAD MOTOR CURRENT—Amperes			
		2 Overload Relays		3 Overload Relays	
		Min.	Max.	Min.	Max.
G30T51	\$1.50	33.6	38.3	32.0	36.7
G30T52		38.4	43.9	36.8	39.1
G30T53		44.0	48.7	39.2	45.5
G30T54		48.8	51.2	45.6	48.7
G30T55		51.3	59.2	48.8	55.9
G30T56		59.3	65.5	56.0	63.1
G30T57		65.6	72.7	63.2	69.5
G30T58		72.8	80.7	69.6	78.3
G30T59		80.8	87.1	78.4	83.9
G30T60		87.2	98.3	84.0	92.7
G30T61		98.4	109.0	92.8	100.0
G30T62		110.0	119.0	101.0	111.0
G30T63	120.0	131.0	112.0	125.0	
G30T64	132.0	135.0	126.0	129.0	
G30T65	—	—	130.0	135.0	

TABLE 10—NEMA Size 4
 Class A20-A22, L10—In Control Center or Panelboard
 Class A21, A22, A32-A35, A50, A55—In NEMA 1 or 12 Enclosure
 Class A30—In NEMA 1, 4 or 12 Enclosure
 Class A31—In NEMA 1, 4, 7, 9 or 12 Enclosure
 Class B10, B11

Heater Cat. No.	List Price	FULL-LOAD MOTOR CURRENT—Amperes			
		2 Overload Relays		3 Overload Relays	
		Min.	Max.	Min.	Max.
G30T51	\$1.50	35.2	39.9	32.8	37.6
G30T52		40.0	45.5	37.7	40.7
G30T53		45.6	50.3	40.8	46.4
G30T54		50.4	52.6	46.5	49.6
G30T55		52.7	61.5	49.7	57.4
G30T56		61.6	68.7	57.5	64.7
G30T57		68.8	75.1	64.8	71.1
G30T58		75.2	83.3	71.2	79.9
G30T59		83.4	89.9	80.0	85.5
G30T60		90.0	101.0	85.6	95.2
G30T61		102.0	113.0	95.3	103.0
G30T62		114.0	124.0	104.0	114.0
G30T63	125.0	132.0	115.0	129.0	
G30T64	133.0	150.0	130.0	133.0	
G30T65	—	—	133.0	150.0	



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TABLE 11—MANUAL STARTERS
Class C10, C11, C12, C13—Fractional Horsepower

Heater Cat. No.	List Price	Full-Load Motor Current—Amperes	
		Min.	Max.
G30M5	\$1.00	.21	.22
G30M6		.23	.25
G30M7		.26	.28
G30M8		.29	.31
G30M9		.32	.34
G30M10		.35	.38
G30M11		.39	.43
G30M12		.44	.48
G30M13		.49	.53
G30M14		.54	.60
G30M15		.61	.67
G30M16		.68	.74
G30M17		.75	.82
G30M18		.83	.92
G30M19		.93	1.02
G30M20		1.03	1.13
G30M21		1.14	1.26
G30M22		1.27	1.41
G30M23		1.42	1.57
G30M24		1.58	1.74
G30M25		1.75	1.93
G30M26		1.94	2.15
G30M27		2.16	2.39
G30M28		2.40	2.65
G30M29		2.66	2.95
G30M30		2.96	3.28
G30M31		3.29	3.65
G30M32		3.66	4.05
G30M33		4.06	4.50
G30M34		4.51	5.01
G30M35		5.02	5.57
G30M36		5.58	6.19
G30M37		6.20	6.88
G30M38		6.89	7.65
G30M39		7.66	8.47
G30M40		8.48	9.43
G30M41		9.44	10.4
G30M42		10.5	11.6
G30M43		11.7	12.9
G30M44		13.0	14.3
G30M45		14.4	16.0



HEATER SELECTION TABLES†

SIZE 00, 0, 1 & 1½ STARTERS*

With Ambient Compensated O.L. Relays

Heater Cat. No.	Motor Current		Heater Cat. No.	Motor Current	
	Min.	Max.		Min.	Max.
T6	.32	.35	T30	3.50	4.04
T7	.36	.39	T31	4.05	4.52
T8	.40	.43	T32	4.53	5.04
T9	.44	.46	T33	5.05	5.33
T10	.47	.50	T34	5.34	5.83
T11	.51	.57	T35	5.84	6.39
T12	.58	.62	T36	6.40	7.24
T13	.63	.70	T37	7.25	8.17
T14	.71	.79	T38	8.18	9.15
T15	.80	.88	T39★	9.16	10.1
T16	.89	.98	T40	10.2	11.3
T17	.99	1.08	T41	11.4	12.6
T18	1.09	1.17	T42	12.7	13.4
T19	1.18	1.29	T43	13.5	14.9
T20	1.30	1.42	T44	15.0	15.9
T21	1.43	1.55	T45	16.0	17.4
T22	1.56	1.67	T46	17.5	19.6
T23	1.68	1.84	T47●	19.7	21.2
T24	1.85	2.09	T48	21.3	22.2
T25	2.10	2.30	T49	22.3	26.5
T26	2.31	2.53	T50	26.6	29.5
T27	2.54	2.78	T51△	29.6	31.2
T28	2.79	3.13	T52	31.3	35.1
T29	3.14	3.49	T53	35.2	39.0

- ★ Max. Heater for Size 00
- Max. Heater for Size 0
- △ Max. Heater for Size 1

SIZE 2 STARTERS*

A

With Ambient Compensated O.L. Relays

Heater Cat. No.	Motor Current		Heater Cat. No.	Motor Current		Heater Cat. No.	Motor Current		Heater Cat. No.	Motor Current	
	Min.	Max.		Min.	Max.		Min.	Max.		Min.	Max.
T36	7.08	7.98	T42	13.8	15.0	T48	21.3	24.5	T54	41.7	45.3
T37	7.99	8.70	T43	15.1	16.1	T49	24.6	27.8	T55	45.4	49.1
T38	8.71	9.83	T44	16.2	16.9	T50	27.9	31.2	T56	49.2	50.3
T39	9.84	11.1	T45	17.0	18.4	T51	31.3	33.5			
T40	11.2	12.2	T46	18.5	20.4	T52	33.6	37.3			
T41	12.3	13.7	T47	20.5	21.2	T53	37.4	41.6			



HEATER SELECTION TABLES † (Continued)

SIZE 3 STARTERS*

A

With Ambient Compensated O.L. Relays

Heater Cat. No.	Motor Current Min.	Max.	Heater Cat. No.	Motor Current Min.	Max.	Heater Cat. No.	Motor Current Min.	Max.	Heater Cat. No.	Motor Current Min.	Max.
T46	22.1	24.7	T50	35.0	37.6	T54	53.5	58.7	T58	81.1	90.2
T47	24.8	28.4	T51	37.7	43.3	T55	58.8	67.9	T59	90.3	98.3
T48	28.5	29.1	T52	43.4	46.8	T56	68.0	73.5	T60	98.4	100.0
T49	29.2	34.9	T53	46.9	53.4	T57	73.6	81.0			

SIZE 4 STARTERS*

A

With Ambient Compensated O.L. Relays

Heater Cat. No.	Motor Current Min.	Max.	Heater Cat. No.	Motor Current Min.	Max.	Heater Cat. No.	Motor Current Min.	Max.	Heater Cat. No.	Motor Current Min.	Max.
T51	37.7	43.3	T55	57.2	66.0	T59	92.0	98.3	T63	132.3	147.9
T52	43.4	46.8	T56	66.1	74.4	T60	98.4	109.5	*T64	148.0	150.0
T53	46.9	53.4	T57	74.5	81.8	T61	109.6	119.5			
T54	53.5	57.1	T58	81.9	91.9	T62	119.6	132.2			

★ Fuses Not To Exceed 500 Amps.

SIZE 5*

With Ambient Compensated O.L. Relays

Heater Cat. No.	Motor Control Min.	Max.	Heater Cat. No.	Motor Current Min.	Max.	Heater Cat. No.	Motor Current Min.	Max.	Heater Cat. No.	Motor Current Min.	Max.
T27	79	87	T32A	121	130	T35	175	193	T39	255	284
T28	88	97	T32	131	144	T36A	194	214	T40	285	300
T29	98	107	T33	145	160	T37	215	236			
T30	108	120	T34	161	174	T38	237	254			

† Choose fuses according to N.E.C.

* For continuous rate 40°C rise motors use heater as specified in table. For continuous rated 55°C rise motors use one size smaller heater than above.

The current at which heaters will trip the overload relay is 1.25 times the minimum full load motor current in the table. Heaters so selected give 125% protection.