

**BULLETIN 2100 HEATER ELEMENT SELECTION TABLES FOR BULLETINS
2106, 2107, 2112, 2113, 2122E, 2122F, 2122G, 2123E, 2123F, 2123G, 2126E,
2126F, 2126J, 2126K, 2127E, 2127F, 2127J, 2127K**



ATTENTION: If burnout of an overload relay heater element occurs, the heater element must be replaced to provide continued protection against fire and shock hazard.
ATTENTION: Si un élément chauffant du relais de protection contre les surcharges est brûlé, cet élément doit être remplacé afin de fournir une protection continue contre les hasards d'incendie et de chocs.

IMPORTANT: When ordering heater elements, specify the desired "Heater Type No.,".

MOTORS RATED FOR CONTINUOUS DUTY WITH MARKED SERVICE FACTOR NOT LESS THAN 1.15 OR MARKED TEMPERATURE RISE NOT OVER 40°C.

Select the "Heater Type No." with the listed "Full Load Amps." nearest the full load current value shown on the motor nameplate when the ambient temperature at the controller and the motor is the same. If the ambient temperature at the controller is higher than at the motor and the nameplate full load current is between the values listed, select the "Heater Type No." with the higher value [1]. If the ambient temperature at the controller is lower than at the motor and the nameplate full load current is between the values listed, select the "Heater Type No." with the lower value [1].

[1] When temperature difference exceeds 10°C (18°F), consult local Allen-Bradley Office.

ALL OTHER MOTORS RATED FOR CONTINUOUS DUTY (INCLUDES MOTORS WITH MARKED SERVICE FACTOR OF 1.0).

Select the "Heater Type No." one rating smaller than determined by the above rules. This will provide protection at current levels 10% lower.

MOTORS RATED FOR INTERMITTENT DUTY: Consult local Allen-Bradley Office.

Heater Type Number	Full Load Amps	Heater Type Number	Full Load Amps.		Heater Type Number	Full Load Amps.			
			Size	Size		Size	Size	Size	Size
			1	2		1	2	3	4
W10	0.19	W23	0.64	----	W53	11.4	11.5	----	----
W11	0.21	W24	0.70	----	W54	12.5	12.6	----	----
W12	0.23	W25	0.77	----	W55	13.7	13.8	----	----
W13	0.25	W26	0.85	----	W56	15.0	15.1	----	----
W14	0.28	W27	0.93	----	W57	16.3	16.4	----	----
W15	0.30	W28	1.02	----	W58	17.7	17.9	----	----
W16	0.33	W29	1.12	----	W59	19.3	19.5	----	----
W17	0.36	W30	1.23	----	W60	20.9	21.2	----	----
W18	0.40	W31	1.35	----	W61	22.7	23.0	25.4	----
W19	0.44	W32	1.48	----	W62	24.7	25.1	27.8	----
W20	0.49	W33	1.62	----	W63	26.9	27.3	30.5	----
W21	0.53	W34	1.79	----	W64	29.2	29.7	33.5	35.0
W22	0.58	W35	1.97	----	W65	----	31.5	37.0	38.5
		W36	2.18	----	W66	----	34.5	40.5	42.0
		W37	2.40	----	W67	----	37.5	44.5	46.0
		W38	2.65	----	W68	----	41.0	48.5	51
		W39	2.92	----	W69	----	44.0	53	56
		W40	3.23	----	W70	----	47.0	59	61
		W41	3.56	----	W71	----	----	64	66
		W42	3.93	----	W72	----	----	69	71
		W43	4.30	----	W73	----	----	73	76
		W44	4.71	----	W74	----	----	77	82
		W45	5.16	----	W75	----	----	81	88
		W46	5.66	----	W76	----	----	85	94
		W47	6.28	----	W77	----	----	90	100
		W48	6.94	----	W78	----	----	----	106
		W49	7.71	----	W79	----	----	----	113
		W50	8.45	8.56	W80	----	----	----	120
		W51	9.29	9.40	W81	----	----	----	128
		W52	10.3	10.4	W82	----	----	----	135

Heater Type Number	Full Load Amps.
	Size 5
W29	77
W30	83
W31	90
W32	98
W33	107
W34	116
W35	126
W36	138
W37	150
W38	164
W39	178
W40	194
W41	212
W42	232
W43	254
W44	270

The rating of the relay at 40°C is 115% of the "Full Load Amps." listed for "Heater Type No.".

Size 1: Select the Motor Branch Circuit Overcurrent Protection in accordance with the National Electrical Code and Canadian Electrical Code. A 15 ampere inverse-time circuit breaker may be used for full load motor currents less than 3.75 amperes.

Sizes 2 and 3: Select the Motor Branch Circuit Overcurrent Protection in accordance with the National Electrical Code and Canadian Electrical Code.

Size 4: Select the Motor Branch Circuit Overcurrent Protection in accordance with the National Electrical Code and Canadian Electrical Code for motors with full load currents less than 100 amperes. For motors with full load currents of 100 amperes or more, the rating of the fuse or circuit breaker selected must not exceed 400 amperes.

Size 5: Select the Motor Branch Circuit Overcurrent Protection in accordance with the National Electrical Code and Canadian Electrical Code. In no case shall the ratings of the Class H (Non-Time Delay) or Class K5 (Time Delay) fuses exceed 400 amperes.

40051-232-01(5)

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