

## BULLETIN 2100 HEATER ELEMENT SELECTION TABLE FOR BULLETINS 2154, 2155



**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 <sup>1</sup>. 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 <sup>1</sup>.

<sup>1</sup> 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.

**TABLE 195**

Heater Type Number	Full Load Amps. 180 A. Frame		Heater Type Number	Full Load Amps. 240 A. Frame		Heater Type Number	Full Load Amps. 360 A. Frame		Heater Type Number	Full Load Amps. 500 A. Frame	
	Max. Heavy Duty Rating of 156 A.	Max. Light Duty Rating of 180 A.		Max. Heavy Duty Rating of 192 A.	Max. Light Duty Rating of 240 A.		Max. Heavy Duty Rating of 288 A.	Max. Light Duty Rating of 360 A.		Max. Heavy Duty Rating of 370 A.	Max. Light Duty Rating of 500 A.
W36	----	----	W36	151	----	W36	----	----	W36	----	----
W37	----	----	W37	166	----	W37	----	----	W37	----	----
W38	110	----	W38	183	----	W38	----	----	W38	----	----
W39	120	----	W39	198	198	W39	198	235	W39	----	385
W40	132	132	W40	218	218	W40	218	260	W40	----	420
W41	143	143	W41	----	239	W41	239	293	W41	293	465
W42	155	155	W42	----	260	W42	260	320	W42	320	515
W43	170	170	W43	----	----	W43	285	350	W43	350	----
W44	----	193	W44	----	----	W44	310	380	W44	380	----

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

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

