

BULLETIN 2100 HEATER ELEMENT SELECTION TABLE FOR BULLETIN 2113 SIZE 1 AND 2 STARTERS

TYPE W HEATER ELEMENTS (CLASS 20 RELAY PERFORMANCE)



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 . 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 .

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 141					
Heater Type Number	Full Load Amps.	Heater Type Number	Full Load Amps.	Heater Type Number	Full Load Amps.
	Size 1		Size 1		Size 1
W10	0.18	W29	1.16	W48	7.03
W11	0.20	W30	1.27	W49	7.72
W12	0.22	W31	1.40	W50	8.47
W13	0.24	W32	1.54	W51	9.30
W14	0.27	W33	1.70	W52	10.2
W15	0.30	W34	1.87	W53	11.2
W16	0.33	W35	2.05	W54	12.3
W17	0.36	W36	2.26	W55	13.3
W18	0.40	W37	2.48	W56	14.8
W19	0.44	W38	2.73	W57	16.1
W20	0.48	W39	3.00	W58	17.5
W21	0.53	W40	3.30	W59	19.0
W22	0.59	W41	3.63	W60	20.7
W23	0.65	W42	4.00	W61	22.5
W24	0.72	W43	4.40	W62	24.5
W25	0.79	W44	4.84	W63	26.6
W26	0.87	W45	5.32	W64	28.8
W27	0.96	W46	5.84		
W28	1.05	W47	6.41		

TABLE 146			
Heater Type Number	Full Load Amps.	Heater Type Number	Full Load Amps.
	Size 2		Size 2
W45	5.35	W58	17.3
W46	6.04	W59	18.9
W47	6.60	W60	20.6
W48	7.21	W61	22.5
W49	7.87	W62	24.6
W50	8.60	W63	26.8
W51	9.39	W64	29.4
W52	10.3	W65	32.0
W53	11.2	W66	34.5
W54	12.2	W67	37.5
W55	13.3	W68	41.0
W56	14.6	W69	44.5
W57	15.8		

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.

