

FMS Heater Elements

How are FMS heater elements correctly selected?

HEATER ELEMENT SELECTION

The “Full Load Amps” listed in the table to the right is to be used for heater element selection. The rating of the relay in amperes at 40°C is 115% of the “Full Load Amps” listed for the “Heater Type Number”.

Refer to the motor nameplate for the full load current, the service factor, and/or the motor classification by application and the temperature rise.

Use this motor nameplate information, the application rules and “Full Load Amps” listed in the table to determine the “Heater Type Number”.

MOTORS RATED FOR CONTINUOUS DUTY

Motors With Marked Service Factor of not Less than 1.15; or, Motors With a Marked Temperature Rise not over 40°C:

- 1. The same Temperature at the Controller and Motor** – Select the “Heater Type No.” with the listed “Full Load Amps” nearest the full load value shown on the motor nameplate.
- 2. Higher Temperature at the Controller than at the Motor** ① - If the full load current value shown on the motor nameplate is between the listed “Full Load Amps”, select the “Heater Type No.” with the higher value.
- 3. Lower Temperature at the Controller than at the Motor** ① - If the full load current value shown on the motor nameplate is between the listed “Full Load Amps”, select the “Heater Type No.” with the lower value.

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 rules in paragraphs 1, 2 and 3.

MOTORS RATED FOR INTERMITTENT DUTY

Consult your Sprecher + Schuh representative.

- ① Rules 2 and 3 apply when the temperature difference does not exceed 10°C (18°F). Consult your nearest Sprecher + Schuh Sales representative when the temperature difference is greater.



Heater Elements

Full Load Amps	Heater Type Number
0.17	FMS-P1
0.21	FMS-P2
0.25	FMS-P3
0.32	FMS-P4
0.39	FMS-P5
0.46	FMS-P6
0.57	FMS-P7
0.71	FMS-P8
0.79	FMS-P9
0.87	FMS-P10
0.98	FMS-P11
1.08	FMS-P12
1.19	FMS-P13
1.30	FMS-P14
1.43	FMS-P15
1.58	FMS-P16
1.75	FMS-P17
1.88	FMS-P18
2.13	FMS-P19
2.40	FMS-P20
2.58	FMS-P21
2.92	FMS-P22
3.09	FMS-P23
3.32	FMS-P24
3.37	FMS-P25
4.16	FMS-P26
4.51	FMS-P27
4.93	FMS-P28
5.43	FMS-P29
6.03	FMS-P30
6.83	FMS-P31
7.72	FMS-P32
8.24	FMS-P33
8.90	FMS-P34
9.60	FMS-P35
10.8	FMS-P36
12.0	FMS-P37
13.5	FMS-P38
15.2	FMS-P39

Sprecher + Schuh US Division Headquarters
 15910 International Plaza Drive, Houston, TX 77032
 Customer Service: (877) 721-5913
 Fax: (800) 739-7370

Sprecher + Schuh Canadian Division
 10 Spy Court, Markham, ON L3R 5H6
 Customer Service: (905) 475-6543
 Fax: (905) 475-0027

