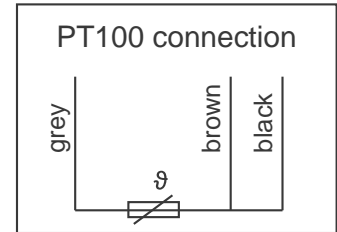
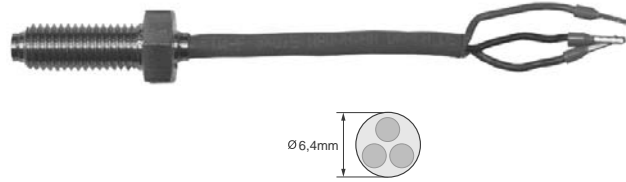
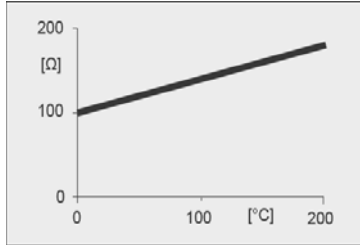


# PT100 Encapsulated Motors



## 6" / 8" PT100

Its ohmic resistance is proportional to the sensed temperature. The FE field replaceable PT100 is potted into a screw holding the upper end bell. Because of his remote position relative to the windings, the sensing relay should be adjusted according to the below table.



**To install the PT100 sensor bolt:** remove the top end bell bolt that is opposite of the lead and replace it with the PT100 screw. Tighten the sensor bolt to the torque values shown below.

6" PT100 -	4kW- 45kW	54- 61 Nm
8" PT100 -	30kW- 45kW	54- 61 Nm
	55kW- 150kW	115- 122 Nm

Franklin Electric does not offer the required sensing device, it is available from speciality dealers.

Conditions	Temp. of the water without motor operation	Max. Trip temp. / Resistance Setting (for standard Lead lenght)
Motor operating at nameplate output with 0.16 m/sec flow past the motor	10°C	40°C / 115,5 Ω
	15°C	44°C / 117,0 Ω
	20°C	48°C / 118,6 Ω
	25°C	51°C / 119,7 Ω
	30°C	55°C / 121,3 Ω
Motor that has been <u>Derated</u> with 1 m/sec flow past the motor	35°C	59°C / 122,8 Ω
	40°C	63°C / 124,3 Ω
	45°C	66°C / 125,5 Ω
	50°C	70°C / 127,0 Ω
	55°C	74°C / 128,6 Ω
	60°C	78°C / 130,1 Ω

### 6" PT100

Kit Number	Motor Type	Wire Insul.	max. Medium Temp.	Lead (mm <sup>2</sup> )	Lead length (m)
305 327 901	6" all Ratings ½ - 20 UNF	Rubber	60°C	3X0,50	10
305 327 903	6" all Ratings ½ - 13 UNC Europe Motors starting 07. 2002 US Motors starting 11.2001 on	Rubber	60°C	3X0,50	10

### 8" PT100

Kit Number	Motor Type	Wire Insul.	max. Medium Temp.	Lead (mm <sup>2</sup> )	Lead length (m)
305 326 902	30 - 45kW (Type 2.1)	Rubber	60°C	3X0,50	10
305 326 901	55 - 150kW (Type 1)	Rubber	60°C	3X0,50	10