

### 5.2.2 Bearing Monitoring

On request, W22 motors can be equipped with bearing temperature detectors which monitor bearing operating conditions. The most commonly used accessory is the RTD temperature detector for continuous monitoring of bearing operating temperature.

This type of monitoring is extremely important considering that it directly affects the grease and bearing lives particularly on motors equipped with regreasing facilities.

## 6. Mounting Forms

Motors are supplied, as standard, in the F-1 configuration, with the terminal box on top left hand side of the motor frame.



Figure 23 - F-1 mounting.

The mounting configuration for the W22 motor lines comply with NEMA MG-1 Part 4. Standard mounting forms and their variations are shown in table 9.

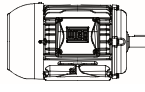
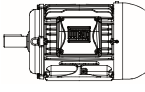
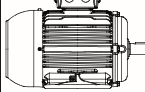

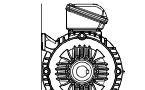

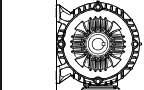
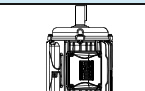
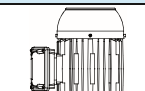
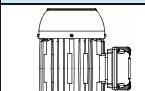


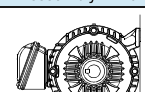


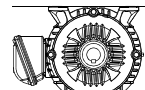
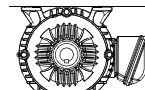

Floor mountings			
Assembly F-1	Assembly F-2	Assembly F-3	
			
Wall mountings			
Assembly W-1	Assembly W-2	Assembly W-3	Assembly W-4
			
Assembly W-5	Assembly W-6	Assembly W-7	Assembly W-8
			
Assembly W-9	Assembly W-10	Assembly W-11	Assembly W-12
			
Ceiling mountings			
Assembly C-1	Assembly C-2	Assembly C-3	
			

Table 9 - Mountings configurations.

## 7. Degree of Protection / Sealing System / Painting

### 7.1 Degree of Protection

As per NEMA MG-1 Part 5, the degree of protection of a rotating electrical machine consists of the letters IP (ingress protection), followed by two characteristic numerals, with the following meaning:

- First characteristic numeral: referred to protection of people against or approach to live parts and against contacts with moving parts (other than smooth rotating shafts and the like) inside the enclosure and protection of the machine against ingress of solid and foreign objects.
- Second characteristic numeral: protection of machines against harmful effects due to ingress of water.

W22 motors are supplied with degrees of protection in conformance with NEMA MG-1 Part 5. As standard, they are IP55, which means:

- First characteristic numeral 5: machine protected against dust. The enclosure is protected against contact with moving parts. Ingress of dust is not totally prevented, but dust does not enter in sufficient quantity to interfere with satisfactory operation of the machine.
- Second characteristic numeral 5: Machine protected against water jets. Water projected by a nozzle against the machine from any direction shall have no harmful effect.

### 7.2 Sealing System

The sealing system applied to the shaft of W22 motors in frame 143T to 326T is V-ring. For frames 364/5T to 504/5T the sealing system is the exclusive WSeal<sup>®</sup>, which consists of a double lipped V-ring with a metallic cap (see figure 24). This configuration operates like a labyrinth preventing ingress of water and dust into the motor.

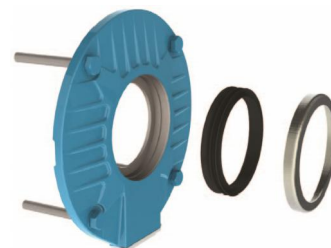


Figure 24 - WSeal<sup>®</sup>.

For frame sizes 586/7T and 588/9T the sealing system is the Taconite Labyrinth.

Alternatively, W22 motors can be supplied with other sealing systems, for example, Oil'seal and the WEG exclusive W3 Seal<sup>®</sup>, among others (see Section 13 - Optional features). When fitted with flange, the recommended seal is Lip seal (no contact with liquid) and Oil seal (with contact with liquid).