

sewage and exposed to rain etc. shall be of the watertight type protection class IP 68.

- H. All outside installed electrical switches, isolator, junction box, push button stations etc. shall be protected with GRP UV resistant sunshade as per design approved by the engineer.
- I. Pipes, cables, etc. shall not be supported by any other pipe, cable, equipment and installation.

### 1.3.3 Electricity Supply

Electricity supply shall be provided by the Abu Dhabi Distribution Company (ADDC) with:

- a. Nominal voltage 400 / 230 Volts
- b. Frequency 50 Hz
- c. Phases 3 phase (4 wire)
- d. Fault level 50 kA for 1 second.
- e. Voltage tolerances +10% and -6%
- f. Frequency tolerances +/- 0.1%

All electrical equipment and material shall be designed for continuous and satisfactory operation at above power data and specified ambient conditions.

### 1.3.4 Protection

- A. In accordance with DIN 40 050, latest edition, the degree of protection for all electrical equipment supplied and installed under this contract shall be as listed below unless otherwise specified:

**Table 1-6: Protection**

Plant	Installation	Class
<b>E- Motors</b>	Submersed installation or	IP68
	Dry or indoor installation	IP 54
	Outdoor installation	IP 55