Title: **NEMA Symbols** Handout: 2

Course: Intro to Automation Unit: Manual Motor Control CLO: 1

**Objectives**

1. Student shall identify the National Electrical Manufactures Association (NEMA) symbols and the components that they represent.

**Symbols**

Match each NEMA symbol with the appropriate description from the table of descriptions below and identify whether the symbol is an input or an output.

|  | Symbol | Description | Abbr. | I/O |
| --- | --- | --- | --- | --- |
|  |  | Normally Open Switch | NO | Input |
|  |  | Normally Closed Switch | NC | Input |
|  |  | Normally Open, Held Closed Switch | NOHC | Input |
|  |  | Normally Closed, Held Open Switch | NCHO | Input |
|  |  | Limit Switch | LS | Input |
|  |  | Float Switch | FTS | Input |
|  |  | Flow Switch | FLS | Input |
|  |  | Temperature Switch | TS | Input |
|  |  | Pressure Switch | PS | Input |
|  |  | Normally Open Contacts | NOC | Input |
|  |  | Normally Closed Contacts | NCC | Input |
|  |  | Coil | CR | Output |

|  | Symbol | Description | Abbr. | I/O |
| --- | --- | --- | --- | --- |
|  |  | Pilot Light | PLT | Output |
|  |  | Green Pilot Light | G-PLT | Output |
|  |  | Normally Closed Pushbutton | PB-NC | Input |
|  |  | Normally Open Pushbutton | PB-NO | Input |
|  |  | Dual Action Pushbutton | PB-DA | Input |
|  |  | Mushroom Head Pushbutton | ESTOP | Input |
|  |  | Two Position Selector Switch | 2PSS | Input |
|  |  | Three-position Selector Switch | 3PSS | Input |

**Example**

