**Output and Input Signal Sheet (ELSA001)**

Project Engineering Department

88 Bangbon Vill Kanjanapisek Rd. Bangbon, Bangbon, Bangkok Thailand 10150

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| Dear | Electrical and Control Supervisory Division, Project Engineering Department |

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| --- | --- |
| I would like to inform you that we have got the new project from | **EMERSON** |
| and would like to cooperate in the electrical cabinet design and wiring for this project as well as itemize the detailed descriptions as follows: | |

**Power Machine**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Equipment | Specification | Qty. | Input/EA  (All) | Status | Output/EA  (All) | Status |
| 1 | Dresser Roots Blower | 7.5kW,380V,3ϕ  Direct on-line start | 2 | 4 (8) | start  stop  overload  active | 1 (2) | Relay |
| 2 | 6” Rotary Valve | 0.37kW,380V,3ϕ  Direct on-line start | 12 | 4 (48) | start  stop  overload  active | 1 (12) | Relay |
| 3 | 10” Rotary Valve |  | 1 | 4 (4) | start  stop  overload  active | 1 (1) | Relay |
| 4 | Vibrator | 0.27kW,380V,3ϕ  Direct on-line start | 2 | 0 (0) | - | 1 (2) | Relay |

**Input device**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Seq. | Equipment | Description | Qty. | Input/EA (All) | Status |
| 1 | Vacuum switch | Digital Input | 1 | 1 (1) | Logic switch |
| 2 | Capacitive Sensor | Digital Input | 2 | 1 (2) | Logic switch |
| 3 | System Start | Digital Input | 1 | 6 (6) | Logic switch |

**Output device**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Seq. | Equipment | Specification | Qty. | Output/EA (All) | Status |
| 1 | Jet Pulse | Dust Collector | 2 | 1 (2) | 24 VDC Relay |
| 2 | Mimic | Pilot Lamp | 19 | 1 (19) | 24 VDC Relay |
| 3 | Buzzer | Alarm | 1 | 1 (1) | 24 VDC Relay |

**Miscellaneous device**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Equipment | Specification | Qty. | Input/EA  (All) | Status | Output/EA  (All) | Status |
| 1 | 6” Butterfly Valve | Solenoid Valve:  3/2 type 24 VDC | 2 | 2 (4) | Limit: Left  Limit: Right | 1 (2) | Coil |

**Front Panel**

|  |  |  |  |
| --- | --- | --- | --- |
| Seq. | Equipment | Specification | Qty. |
| 1 | Voltmeter | 0 – 500 VAC | 1 |
| 2 | Ammeter | Burden: 100A/5A | 1 |
| 3 | Emergency Stop | Emergency Switch | 1 |
| 4 | Selector Switch | 3ϕ Selector Switch – Phase selection for voltage monitoring | 1 |

**Programmable Logic Controller (PLC) Module**

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| --- | --- | --- | --- |
| Seq. | Equipment | Specification | Qty. |
| 1 | Allen Bradley | Master Module 12 inputs / 12 outputs | 1 |
| 2 | Allen Bradley | Expansion Module 16 inputs / 16 outputs | 6 |

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| For more information, please contact to: | 1. MR. XXXXXXX (his position – Leader/Manager) |
|  | 2. MR. XXXXXXX (his position – Sales Representative/Sales Project) |

|  |  |  |
| --- | --- | --- |
| Best Regards, | Receive Date: |  |
|  | Receive Time: |  |
| Sales Representative/Sales Project’s Name  Sales Representative/Sales Project’s POSITION  Project Engineering Department | Received By |  |

Enclosure: Single Line Diagram 1 Sheet

Sequential Condition 1 Sheet