**PANEL VFD APF35**

**1. Description  
Variable Frequency Drive for APF35 motor.**

**2. Functions**

* **Controls speed and direction of motor**

**3. I/O and Signals**

|  |  |  |  |
| --- | --- | --- | --- |
| **Signal Name** | **Type** | **Description** | **Panel** |
| **VFD\_RUN\_CMD** | **DO** | **Start motor** | **PANEL\_CONTROL\_RIO** |
| **VFD\_SPEED\_REF** | **AO** | **Speed reference** | **PANEL\_CONTROL\_RIO** |
| **VFD\_FAULT** | **DI** | **Drive fault status** | **PANEL\_CONTROL\_RIO** |

**4. Interlocks & Safety**

* **Drive fault inhibits motor**

**5. Dependencies**

* **Receives command from PLC based on process logic**

**6. Alarms**

|  |  |  |
| --- | --- | --- |
| **Alarm ID** | **Condition** | **Message** |
| **A\_VFD35\_01** | **Drive fault** | **"VFD APF35 Fault"** |

**7. HMI / Operator Interaction**

* **Speed display**
* **Fault reset option**