

■ **Product Features**



The flameproof joint is machined to a surface roughness of $Ra \leq 1.6\mu m$ and a flatness of $\leq 0.06mm$, which are significantly better than the limits specified in IEC60079-1.



Enclosure features: dedicated grounding screws are available on all four sides for flexible connection.



Dedicated grounding screw



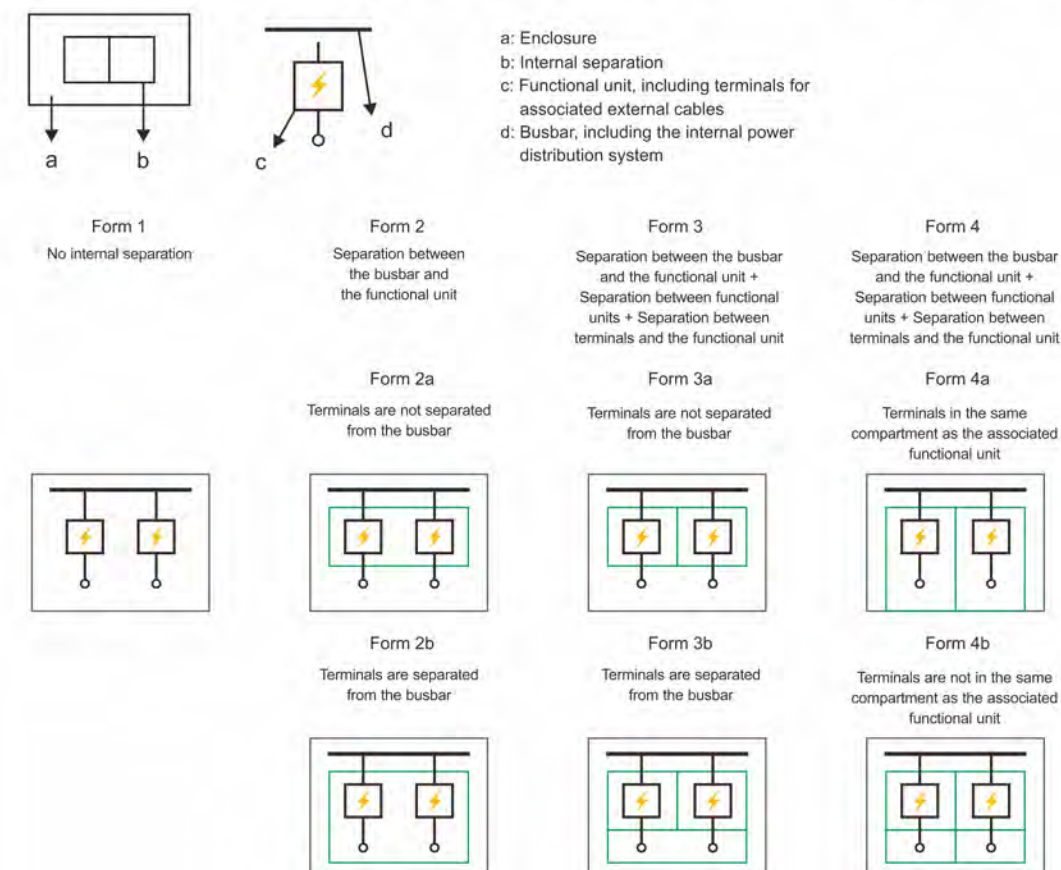
Zones 1&2, 21&22

This series of explosion-proof distribution board systems utilizes an advanced modular architecture design, supporting in-depth customization to precisely adapt to a variety of demanding industrial application scenarios.

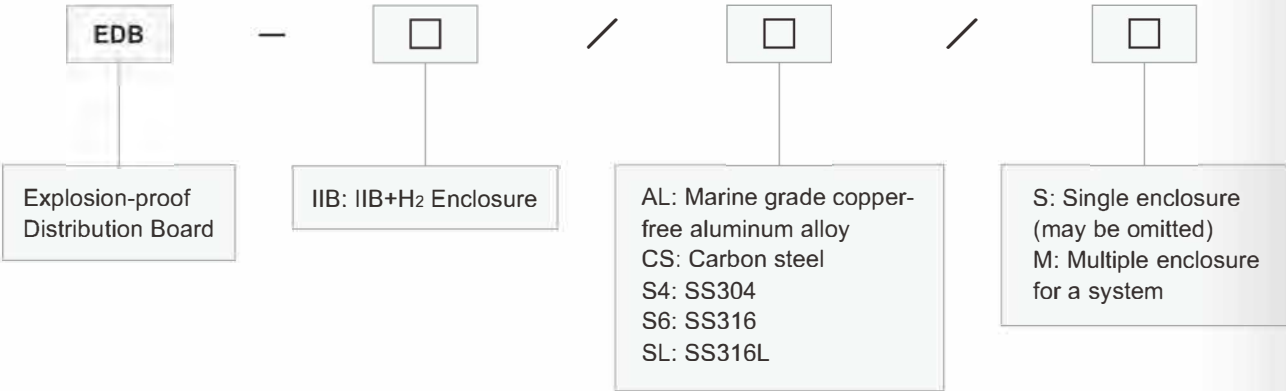
The products can be flexibly configured based on specific requirements, including the **type of compartment segregation (e.g., Form 4b, Form 2b.....)**, rated current, ingress protection (IP) rating, cable entry methods, and internal component layout. This design philosophy ensures the provision of highly reliable power distribution solutions for complex and hazardous environments such as oil and gas, chemical, and pharmaceutical plants. These solutions not only comply with the highest safety standards but also meet specific functional requirements.



Electrical connections pass through the junction between adjacent units via the contact points on the adjacent sides. Terminal blocks are classified by isolation type, as shown in the following figure (source: Standard EN 61439-2):



Model Definition



Application Sectors

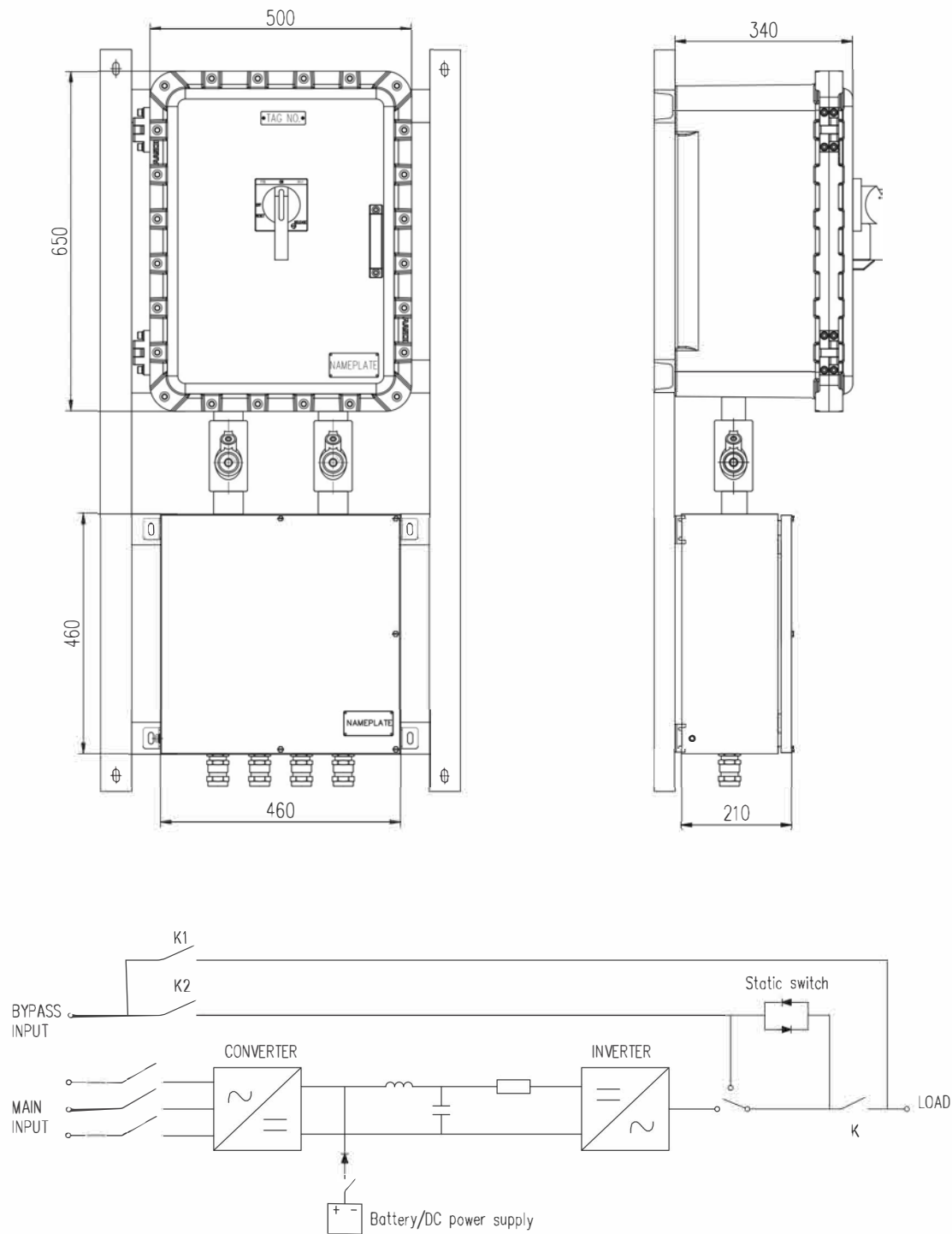


Technical Parameters

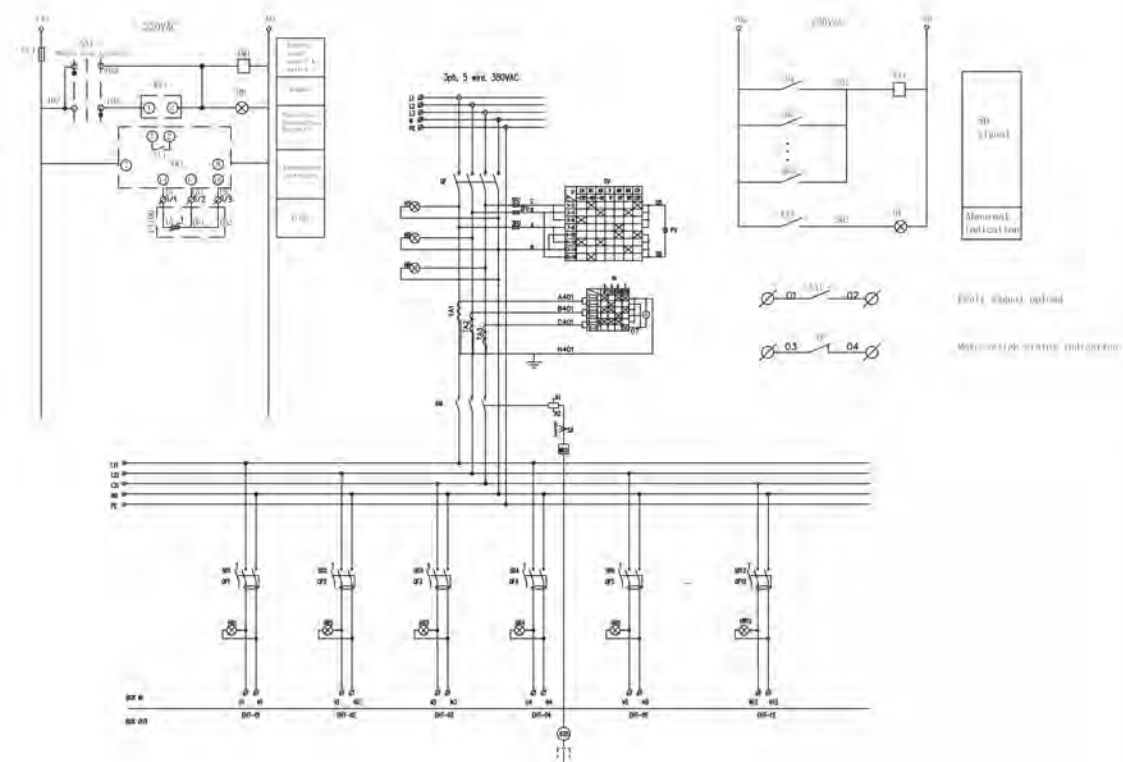
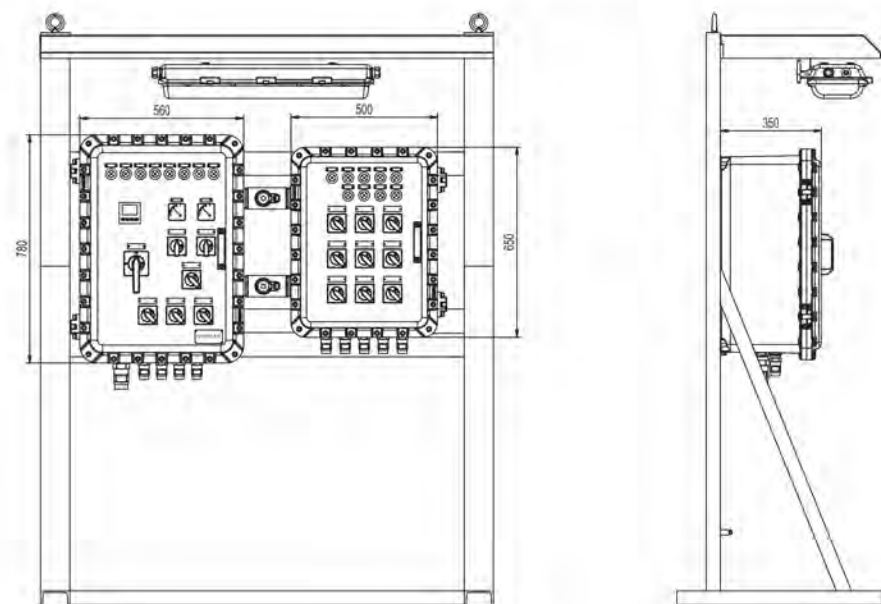
Executing Standards	IEC60079-0, IEC60079-1, IEC60079-7, IEC60079-11, IEC60079-18, IEC60079-31, EN60079-0, EN60079-1, EN60079-7, EN60079-11, EN60079-18, EN60079-31
Certificate No.	IECEX CQM 26.0021X ATEX(Under Application) EAC(Under Application)
Ex Marking	Ex db...IIB+H2 T6/ T5/ T4 Gb Ex tb...IIIC T80°C/ T95°C/ T130°C Db Ex db...IIB+H2 T6/ T5/ T4 Gb Ex tb...IIIC T80°C/ T95°C/ T130°C Db Ex db...IIB+H2 T6/ T5/ T4 Gb Ex tb...IIIC T80°C/ T95°C/ T130°C Db ... represents the parts or products which have obtained certificates (For example, explosion-proof typeeim), can be selected according to requirements
Enclosure Material	Marine grade copper-free aluminum alloy, SS304, SS316, SS316L, carbon steel with powder coated surface, RAL7035 (Other colors are optional)
Rated Voltage	Max. 1000V AC/1500V DC
Rated Current	Max. 1000A
IP Rating	IP66
Ambient Temperature	-60°C~+40°C or -60°C~+60°C
Exposed Fasteners	SS304, SS316 (optional)
Internal & External Earthing	M6: I, II, III, IV; M10: V, VI, VII, VIII, IX, X.
Cable Entries	Customized according to client's requirements

Application Cases of Customized Design

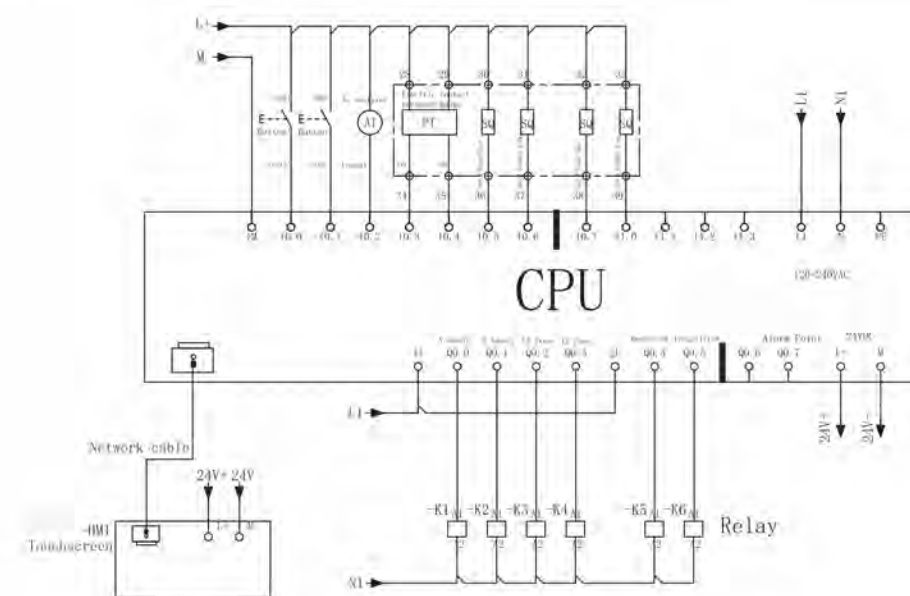
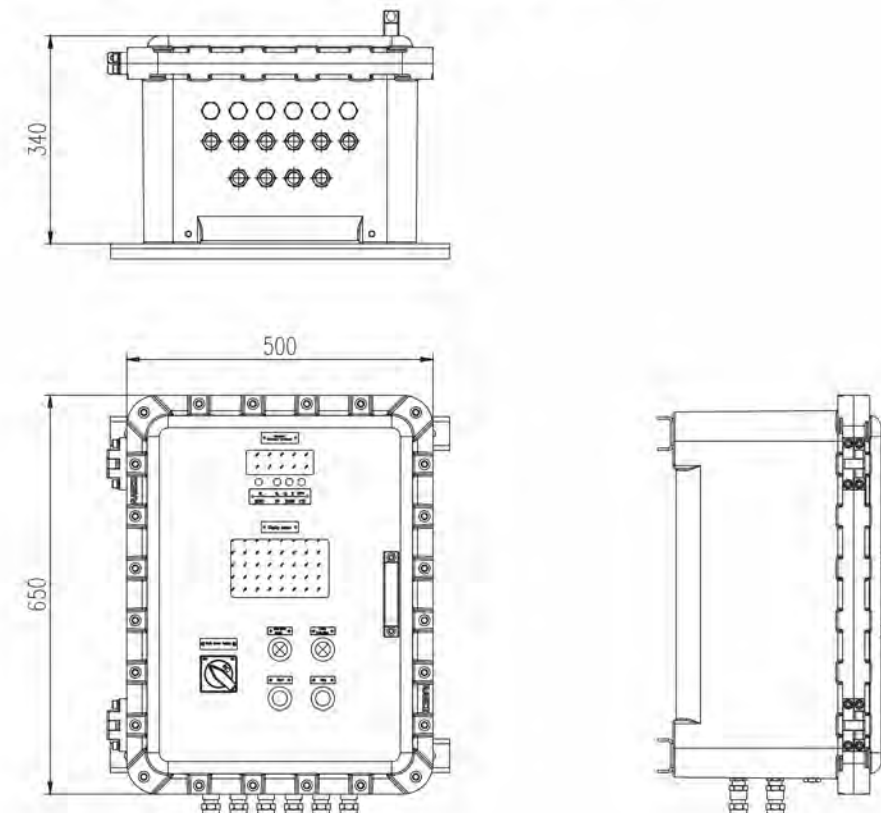
1. Application of explosion-proof control switch for UPS power supply



2. Application of explosion-proof control system in electric heat tracing

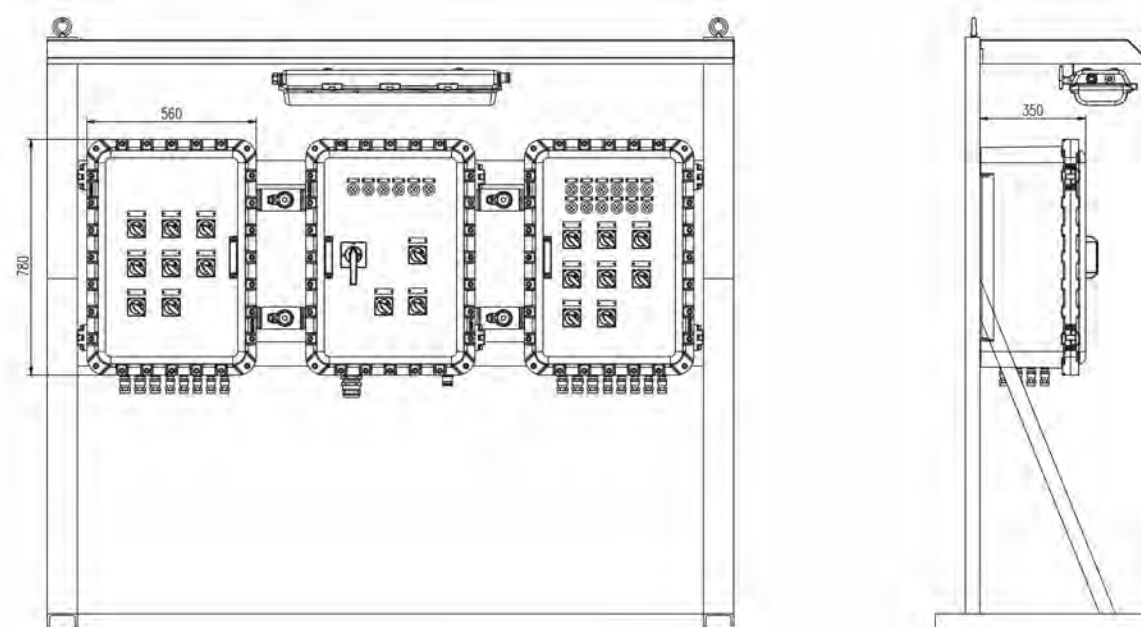


3. Application of explosion-proof control system in nitrogen generator

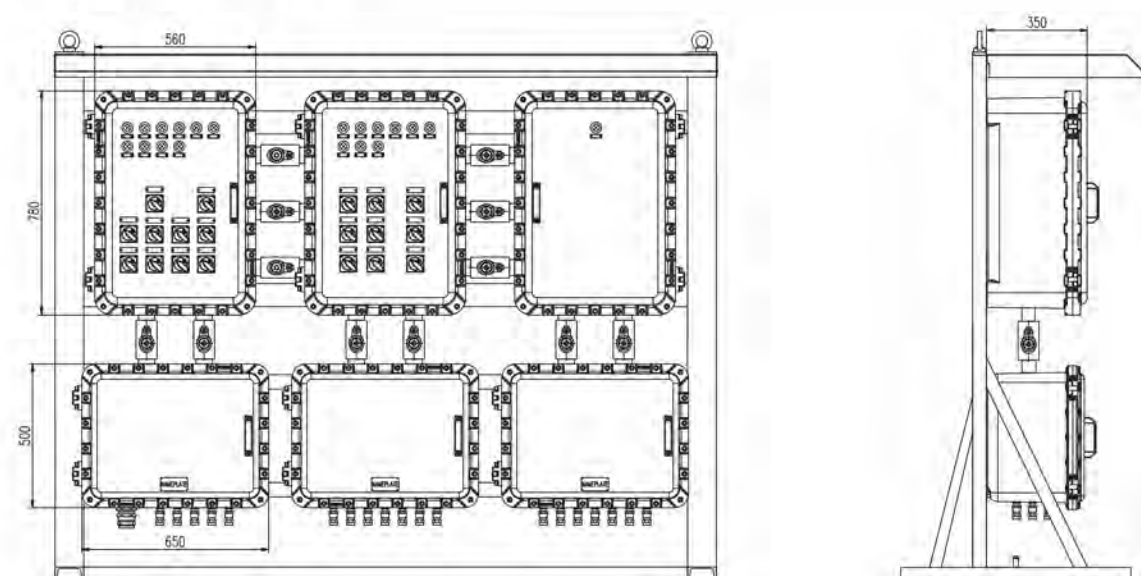


4. Application of modular and customizable explosion-proof power distribution systems

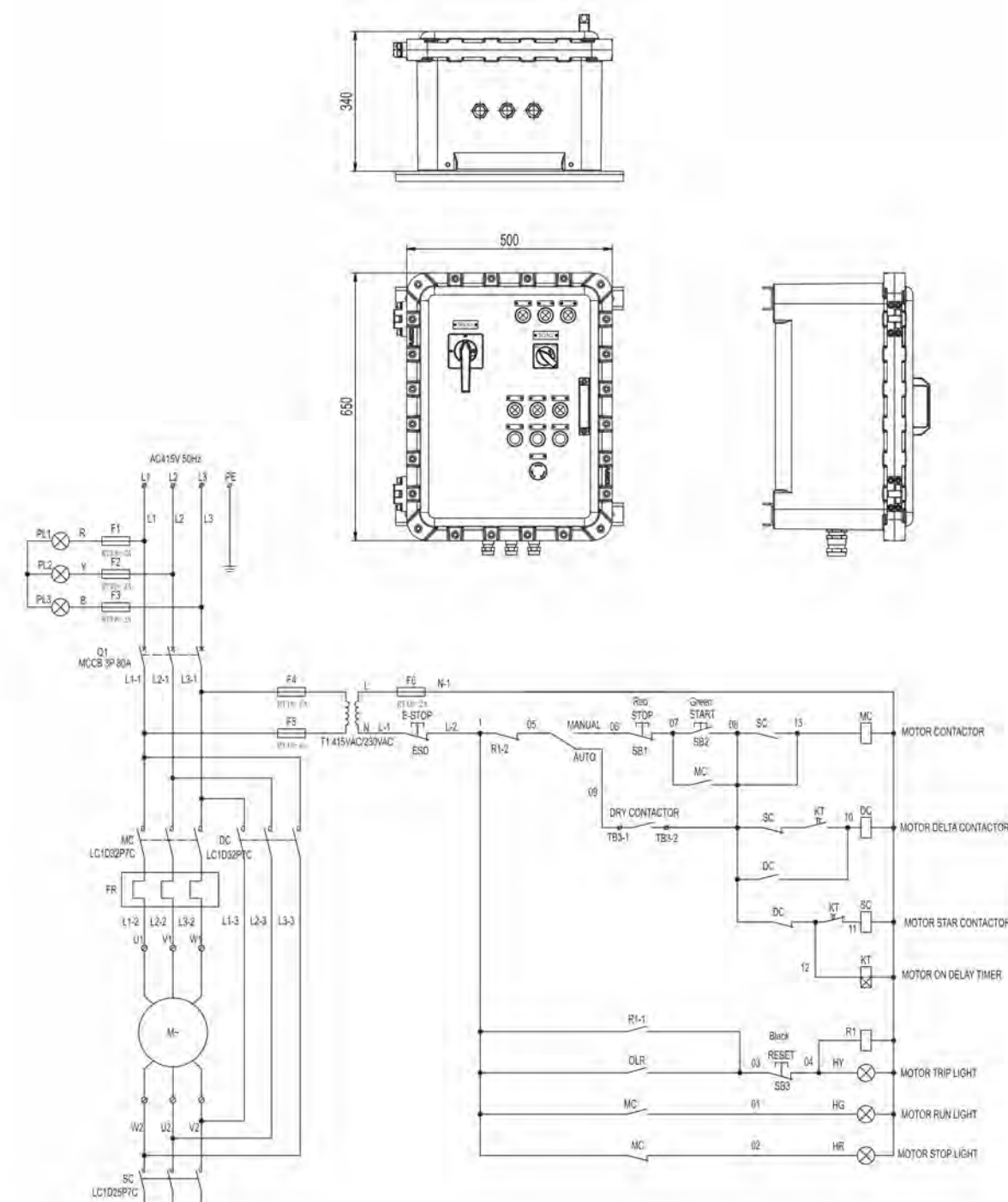
PDB: Power distribution board



LDB: Lighting distribution board



5. Application of explosion-proof control system for motors



6. Explosion-proof control system for generator package



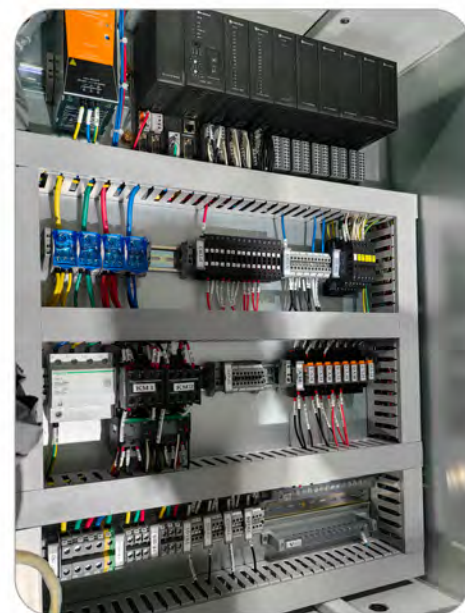
7. Explosion-proof control system for air compressor package



8. Application of explosion-proof control system for fire pumps



9. Application of PLC programmable controllers in explosion-proof distribution board



10. Application of explosion-proof control systems for hydrogen production and storage

