

Custom-made electrical distribution boxes for soup processing plants



Article Overview

For soup processing plants, custom-made electrical distribution boxes should be food-grade, hygienic, and IP69K-rated to withstand high-pressure washdowns and chemical cleaning agents.

Key Considerations

Hygienic Design and Material: Soup processing plants require enclosures that resist corrosion, bacterial growth, and contamination. Stainless steel (AISI 304 or 316L) is commonly used for food-grade control boxes, providing durability and compliance with hygiene standards. Smooth surfaces, rounded edges, and minimal crevices are essential to prevent residue accumulation. **Ingress Protection (IP) Rating:** IP69K-rated enclosures are recommended for food processing environments. These boxes can withstand high-pressure, high-temperature water jets and aggressive chemical detergents, ensuring electrical safety during frequent washdowns. **Customization Options:** Manufacturers like SKKBO and Eabel offer tailor-made distribution boxes that can be configured for specific dimensions, internal layouts, and functional requirements. Options include single-phase or three-phase systems, integrated circuit breakers, fuses, bus bars, and specialized mounting for industrial machinery. Customization also allows for branding, color coding, and logo printing to match plant standards. **Certifications and Compliance:** Ensure the boxes have relevant certifications such as UL, CE, IP, IK, or IECEx for industrial and food processing safety. For hazardous areas or high-moisture environments, explosion-protected or ATEX-certified enclosures may be necessary. **Durability and Maintenance:** Food processin...

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