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CAPABILITY 09 / 27

Industrial Electrical & Power Systems

Reliable power systems for demanding industrial sites.



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OVERVIEW

Industrial sites depend on reliable power from the substation to each motor. COTI supplies power distribution, drives, backup power, cabling, earthing and lighting, including certified equipment for hazardous areas when the project requires it.

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- 9.6** Ex/ATEX or hazardous-area electrical equipment where required by project specification.

9.1 Transformers, switchgear, MCCs, electrical panels and distribution...

SUPPLY SCOPE

Transformers, switchgear, MCCs, electrical panels and distribution components.

DEFINITION

Transformers change voltage levels; switchgear switches and protects circuits; MCCs (Motor Control Centres) group motor starters; panels and distribution components deliver power safely to each consumer.



Photo: Novoklimov, Wikimedia Commons, CC0 – https://commons.wikimedia.org/wiki/File:High-voltage_transformer_750_kV_%D0%A2%D1%80%D0%B0%D0%BD%D1%81%D1%84%D0%BE%D1%80%D0%BC%D0%B0%D1%82%D0%BE%D1%80_750_%D0%BA%D0%92.jpg

9.2 Motors, generators, VFDs, starters, circuit breakers, contactors, relays...

SUPPLY SCOPE

Motors, generators, VFDs, starters, circuit breakers, contactors, relays and protection devices.

DEFINITION

Motors drive pumps and compressors; generators produce power on site; VFDs (Variable Frequency Drives) control motor speed and save energy; starters, breakers, contactors, relays and protection devices switch and protect circuits.

9.3 UPS systems, batteries, chargers and DC power components.

SUPPLY SCOPE

UPS systems, batteries, chargers and DC power components.

DEFINITION

A UPS (Uninterruptible Power Supply) keeps critical systems running during a power cut. Batteries, chargers and DC power components supply control systems, protection relays and emergency equipment.

9.4 Power and instrumentation cables, cable trays, glands, connectors and...

SUPPLY SCOPE

Power and instrumentation cables, cable trays, glands, connectors and terminations.

DEFINITION

Power cables carry energy and instrumentation cables carry signals. Cable trays route them, cable glands seal their entry into equipment, and connectors and terminations ensure reliable connections.

9.5 Grounding/earthing, lightning protection and industrial lighting.

SUPPLY SCOPE

Grounding/earthing, lightning protection and industrial lighting.

DEFINITION

Earthing (grounding) connects equipment to the ground to protect people and installations from faults; lightning protection diverts strikes safely; industrial lighting provides safe visibility, including in hazardous areas.

9.6 Ex/ATEX or hazardous-area electrical equipment where required by project...

SUPPLY SCOPE

Ex/ATEX or hazardous-area electrical equipment where required by project specification.

DEFINITION

In areas where flammable gas or dust may be present, electrical equipment must be certified Ex (ATEX in Europe, IECEx internationally) so that it cannot ignite the atmosphere. COTI sources certified equipment as specified by the project.

Specialized services are provided and/or coordinated with qualified technical partners according to project requirements.

Contact COTI

Send us your RFQ, part numbers, nameplate photos or technical specifications. We will review your requirement and reply with a structured proposal.

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