



inse

Group

*Specialized Electrical
Solutions for Energy*

www.inse.com.co

About Us

We are a Colombian engineering company founded in 2004 in Cucuta, Norte de Santander. We specialize in the commercialization of Specialized Electrical Solutions, with a strategic differentiation approach and a strong focus on added value.

We serve strategic sectors such as Mining, Energy, Oil & Gas, Ports & Shipyards, and Heavy & Light Industry in Colombia and Latin America.

Market Coverage



Strategic Partners



Our Clients



Our solutions comply with current RETIE regulations.



Special Cables

TF
Kable

eiserpro
cables especiales

 **PanElectric**
cabos elétricos especiais
O QUE NOS CONDUZ É O DESAFIO.


WANDACABLE

Special Cables



Special MV feeder cables for fixed use



MP-GC
5kV/25kV



MP-SWA
8kV/25kV



MV-105
5kV/35kV



MV-90
5kV/35kV



Mobile MV feeder cables for temporary power supply



SHD-GC
2kV/25kV



SH
5kV/35kV



Rubber cables for harsh chemical and physical environments



SOOW
600V



W
2kV



G
2kV



G-GC
2kV

Special Cables



Industrial cables, shielded, armored, halogen-free



FLEXTREME TC
600V



ARC-WELDING
600V



USE-2
600V



DLO
2kV



RW90-TC
2kV



Cables for Variable Frequency Drive (VFD) applications



FLAMEBLOCKER
600V



MC-HL
5kV/15kV



Submersible cables for pumps and ESPs



AQUAFLEX
2kV



ESP CABLE
5kV

Special Cables



Fixed and flexible cables for classified areas



UX
250V



BFOU
250V/1000V



RFOU
250V/1000V



SOOW
600V



W
2kV



G
2kV



MC-HL
5kV/15kV



SHD-GC
2kV/25kV



High Temperature Cables



EI-Therm
105°- 500°C



EI-MVTher
1.8kV/13.8kV

Portable Systems

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ADRIA
POWER SYSTEMS®

Portable Substations and Switchgear Trains



Portable Substations

Transform medium voltage to low voltage.

- Input voltage: 34.5 kV / 13.2 kV
- Output voltage: 480V
- Power: 3kVA



Mobile Substations

Designed for temporary replacement of fixed substations or to power field machinery.

- Primary voltage: up to 38kV
- Transformer capacity: up to 20 MVA



Switchgear Trains

Medium voltage equipment for protection, measurement and sectioning.

- Primary voltage: up to 38kV
- Rated current: 630 amps



Temporary Backup System

EmergencyCable

An integrated, portable, and temporary solution for medium-voltage emergency connections, designed for fast field electrical backup. It enables connections between electrical systems when load transfer, testing, maintenance, or contingency response is required.

- Reduces operational times and avoids permanent installations.
- Minimizes downtime during testing or maintenance.
- Designed for easy deployment and retrieval.



Temporary Backup System

Version 1



Version 2



Version 3



Electrical Safety



SmodFire
Sistema de Detección y Extinción de Incendios
en Subestaciones y Sistemas Eléctricos



Littelfuse



MegaResistors
Your best choice for power resistors

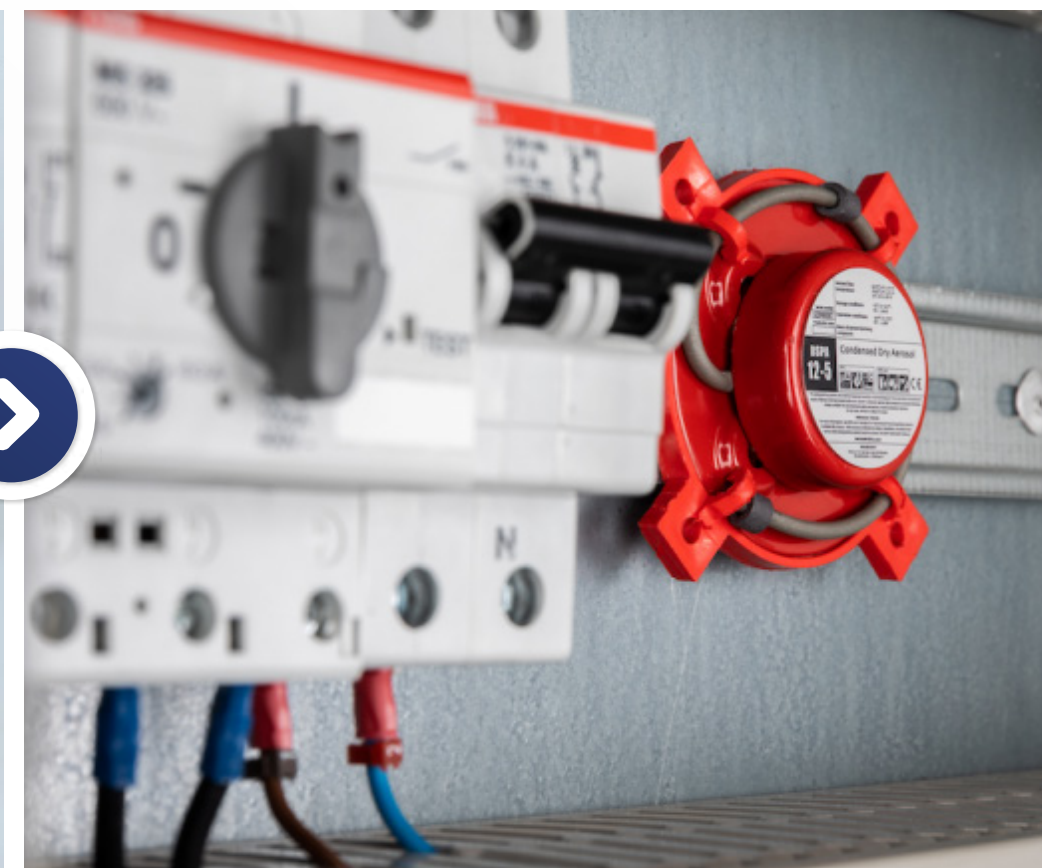
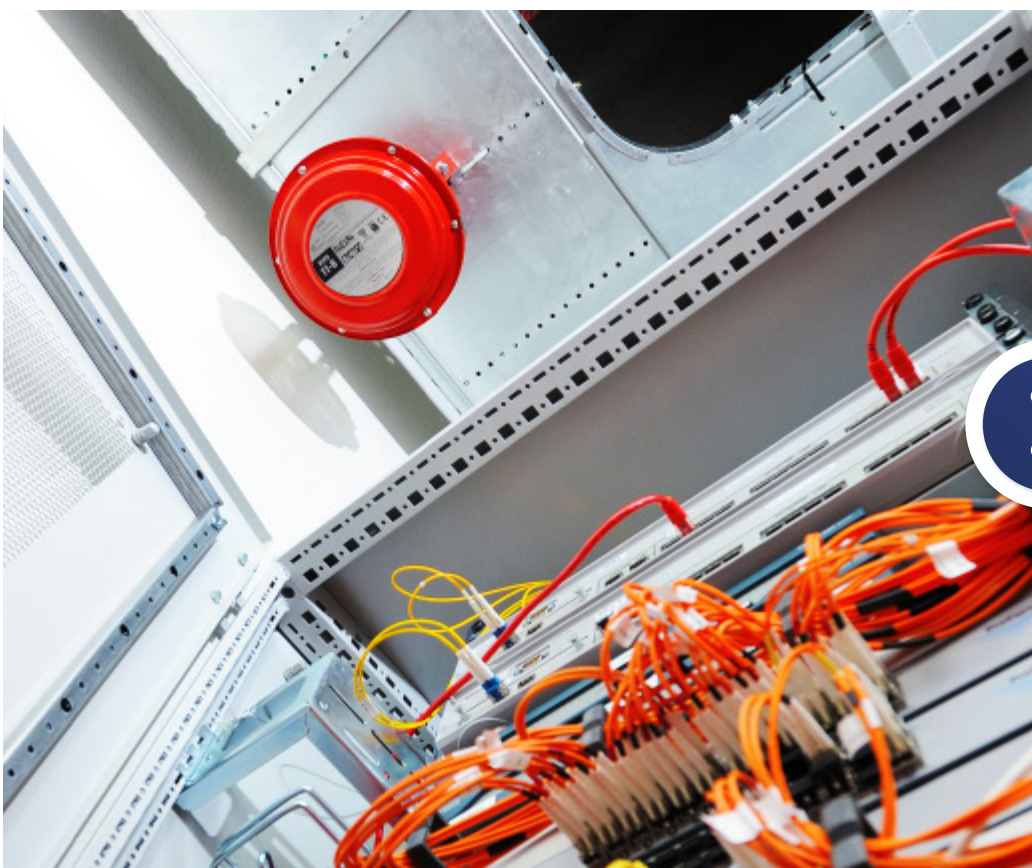


SmodFire

Fire Detection and Suppression System

Advanced solution for fire suppression in substations and electrical systems.

It incorporates compact and durable DSPA aerosol generators with a 15-year lifespan. They are designed to act quickly and safely in environments where gases, powders, or foams are ineffective or pose risks.

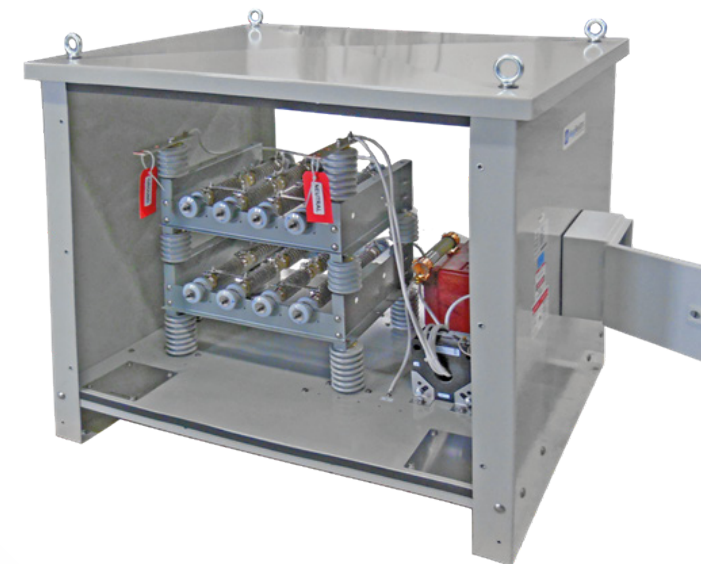




➤ Neutral Grounding Resistors – NGR

They limit the magnitude of ground fault current in an electrical system to protect equipment and personnel.

Low Resistance
Limit from **100 to 1000A**



High Resistance
Limit from **5 to 10A**



 **MegaResistors**
Your best choice for power resistors

➤ Arc Flash Relays and NGR

AF0100

Generator
Protection



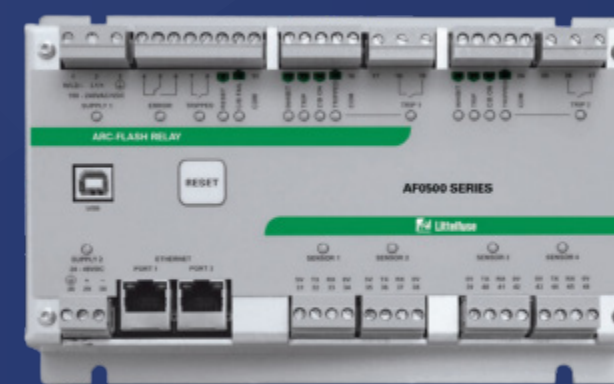
PGR-8800

Switchgear and Panel
ProtectionEléctricos



AF0500

Protection for Switchgear Trains
and Substations Eléctricos



SE-325

NGR
Monitoring



SE-330

NGR
Monitoring



 **Littelfuse®**

➤ Voltage Monitors for LV and MV

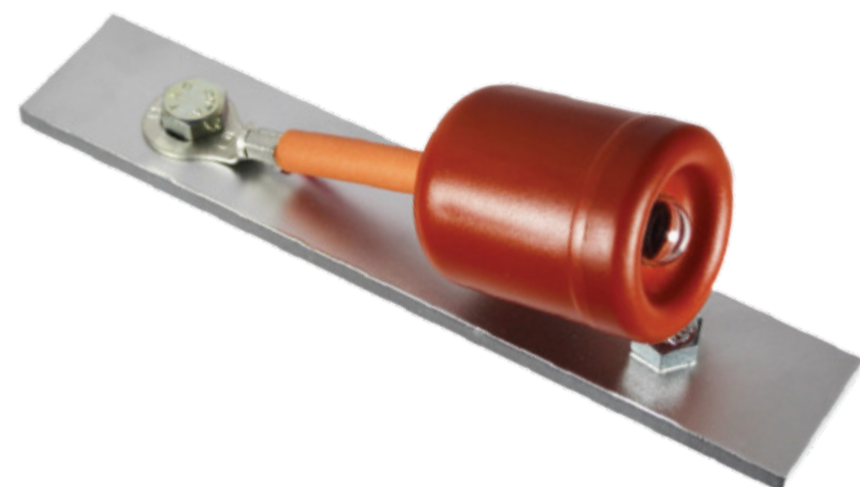
ChekVolt Device

Allows verification of voltage presence or absence without opening electrical equipment.



Medium Voltage Indicator

Alerts of voltage presence in starters, transformers, or substations.



➤ Continuous Temperature Monitors

Continuous temperature monitoring to detect hot spots and alert about failures that could impact operations.

Hot Spot Monitor



Industrial Resistors



MegaResistors
Your best choice for power resistors



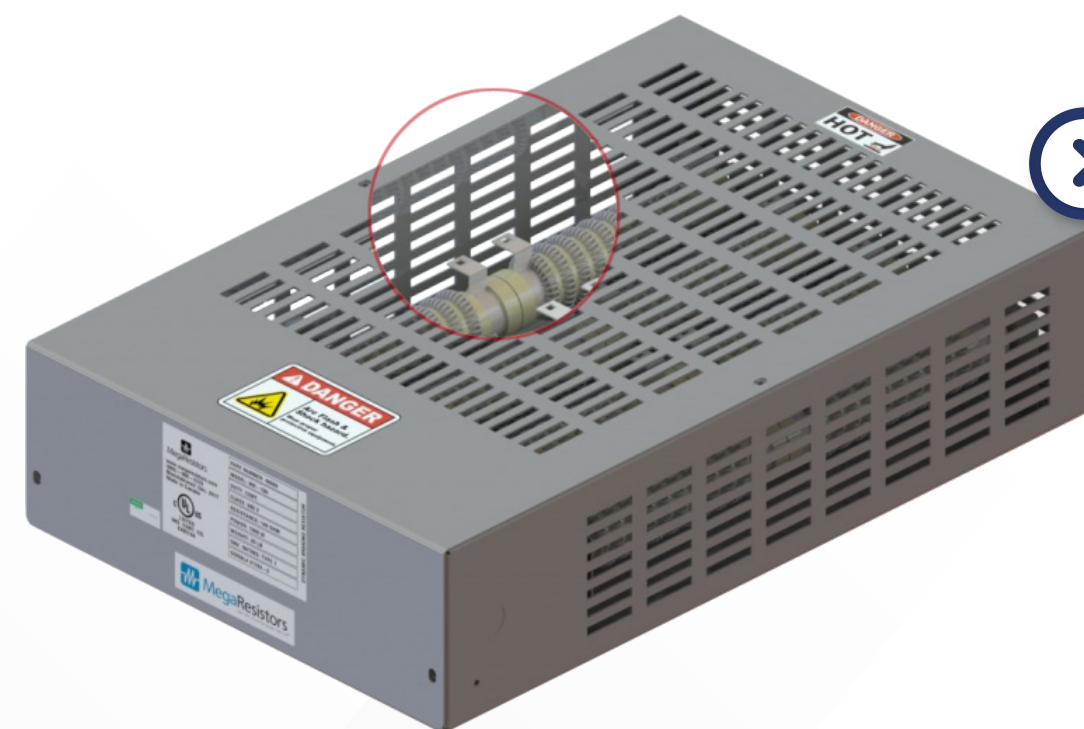
➤ **Discharge Resistors**

Dissipate the energy stored in capacitors or batteries to allow safe maintenance.



➤ **Load Resistors**

Simulate electrical loads to evaluate the performance, capacity, and stability of electrical systems under controlled conditions.



➤ **Braking Resistors**

Absorb the motor's braking energy and dissipate it as heat to control deceleration in variable frequency drives (VFDs).

Heavy-Duty Connectors



Low voltage industrial connectors

Applications:

Mobile substations, distribution panels, critical motors, backup systems, temporary power distribution, and power generation plants.



20A > 63A

DSN
DECONTACTOR™



- ⌚ IP66 / IP67 / IP69
- ⌚ GRP enclosure
- ⌚ Built-in load-break capability
- ⌚ AC-22 and AC-23 ratings
- ⌚ Up to 4 auxiliary/pilot contacts



30A 250A

DS
DECONTACTOR™



- ⌚ IP54/55 (IP66/IP67 from 90A and up)
- ⌚ GRP enclosure up to 150A
- ⌚ Metal enclosure from 90A to 250A
- ⌚ Built-in load-break capability, AC-22 and AC-23 ratings

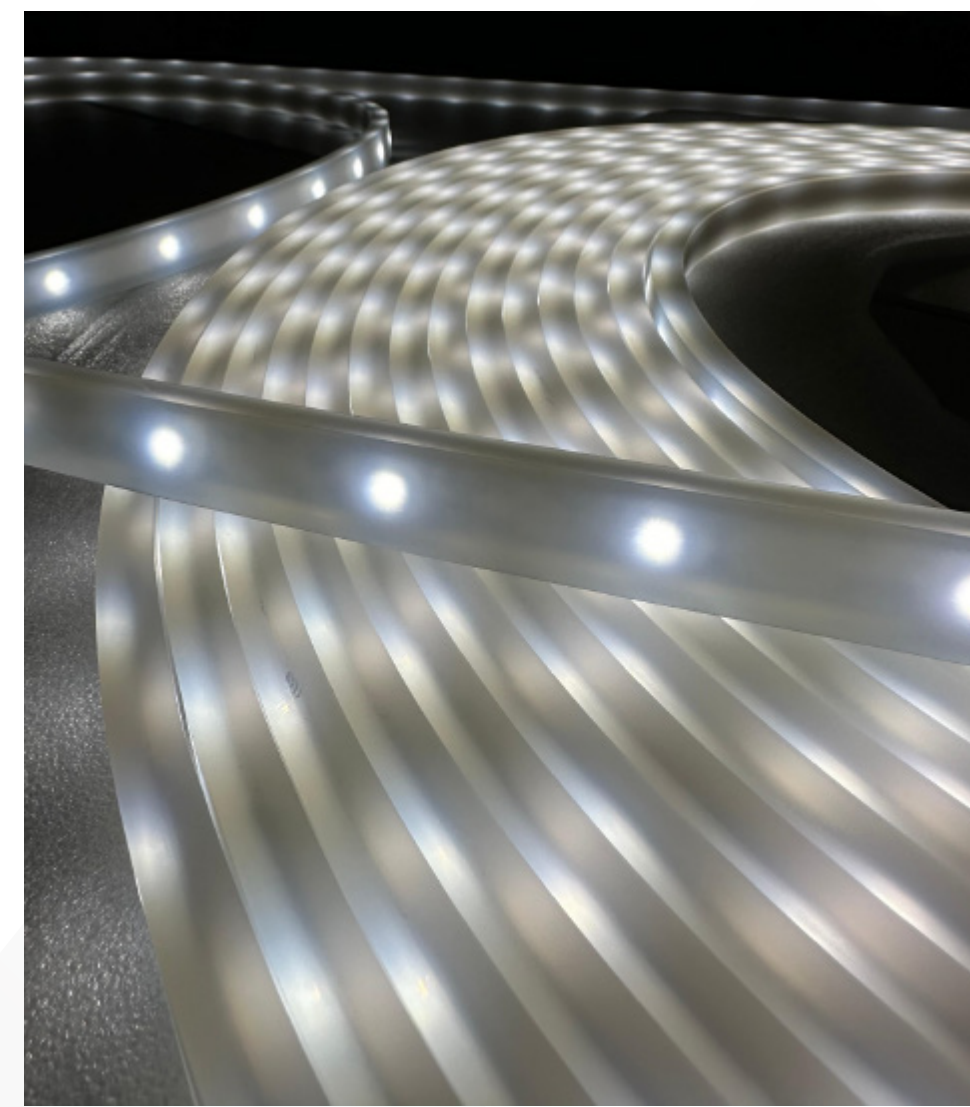
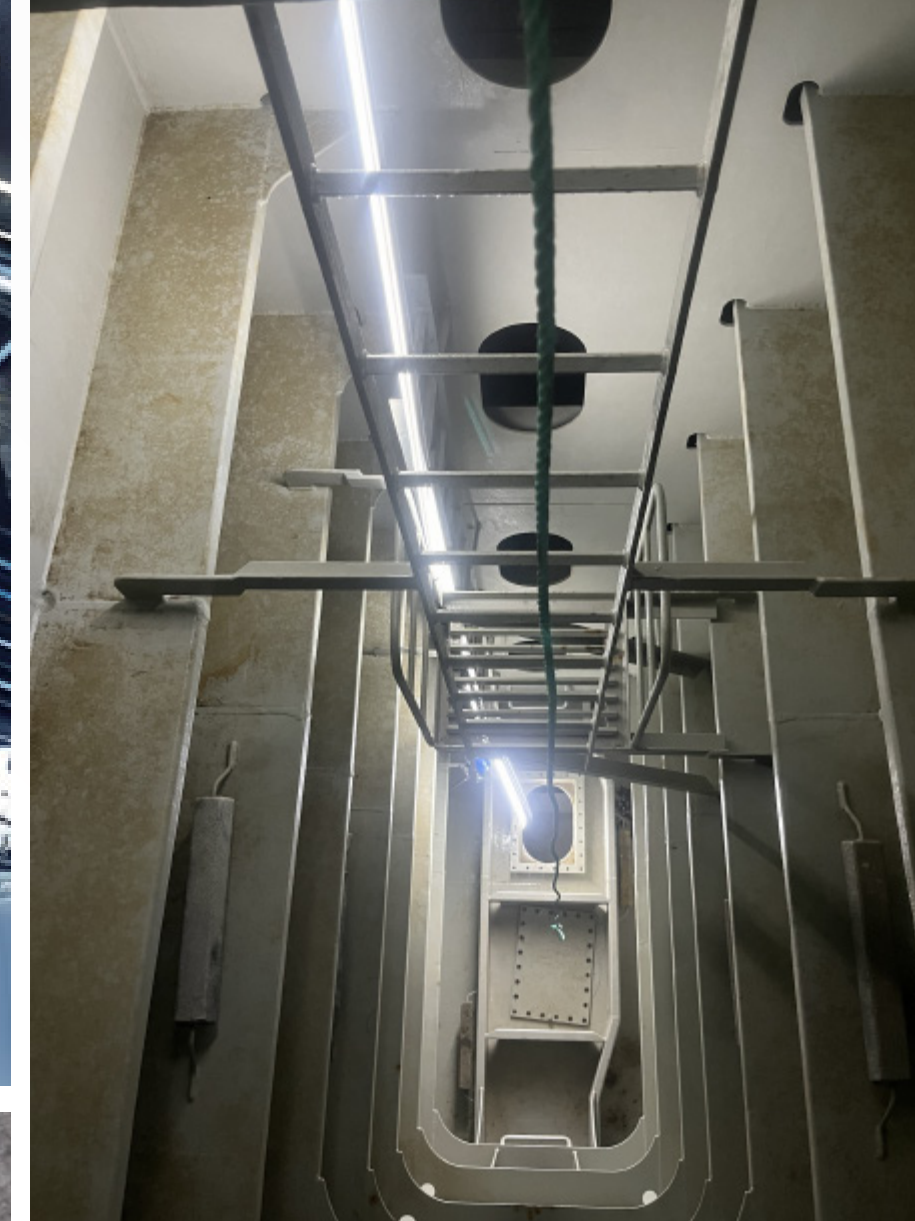
Special lighting



LED strip lights

Designed to provide continuous, safe, and efficient lighting in demanding environments. Their robust construction ensures uniform light distribution, reducing dark spots and improving operational visibility.

- Lifespan of up to 5 years.
- IP67 protection against water, dust, and chemical agents.
- Quick installation with minimal maintenance.
- Flame-retardant material with high mechanical resistance.
- High energy efficiency with lower operating consumptio.



Electrical Panel

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Group

Electrical Panel



Distribution Panels

Reliable solution for the management and protection of electrical networks. They enable safe and organized distribution, with the ability to adapt to different configurations and operational environments.



Starter Panels

Compact systems for efficient motor control, with integrated variable frequency drives that optimize starting, improve energy efficiency, and protect electrical operations.



Contact



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www.inse.com.co