

NEMA 1A Relay Panel Solution



Indoor Use: Designed for dry, indoor environments with protection against limited dust and accidental contact.

Enclosure Construction: Typically, steel or aluminum hinged front door, painted or powder-coated for corrosion resistance. NEMA 1A enclosures feature gasketed doors to provide enhanced protection against the ingress of dust and incidental moisture.

Accessibility: Front access only, facilitating installation, wiring, and maintenance without rear clearance.

Mounting: Floor-standing or wall-mounted, depending on size and site requirements.
Compliance: Built to NEMA 1A, ANSI C37.21.

Wiring: Includes terminal blocks, wire ducts, and clearly labeled SIS wiring with heat-shrink markers.
Protection & Control: Houses protection relays, auxiliary relays, meters, test switches, and control logic.

Ventilation: Typically, not needed, but filtered or fan-assisted options may be included.

Customization: Configurable based on customer drawings and functional control schemes.
Arc Flash Mitigation: Protection relays and secondary protection elements can be located in a low-voltage relay panel or board in a separate room from the Switchgear. Remote control is housed in another panel outside the SWGR.

Maintenance Testing / Isolation

Feature:

Although Test Switches have been popular for decades, the popularity fixed mounted protection relays instead of draw-out or removable relays have led to more need for circuit isolation during testing and troubleshooting.

SRi can install front accessible isolation terminal blocks. Some of the practical advantages:

- Circuit isolation without disconnecting wires
- Terminal access from the front of the panel without the need to open the door.
- Clearly labeled terminals with protective covers to prevent ingress of dust and water.
- Suitable for interconnecting relay outputs with field wiring.



Enclosure Construction

- SRi's NEMA 1A relay panels include continuous gasketing around all accessible doors and removable covers.
- Removable top (gland plate) for easy installation of conduits and cable entrances without creating shavings over the relays and wiring
- Floor anchor holes are standard or optional wall attachment holes.
- Copper Ground bus with pre-tapped holes
- NEMA style terminal blocks for locking fork terminals for normal circuits
- Shorting Terminal Blocks for CT circuits

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