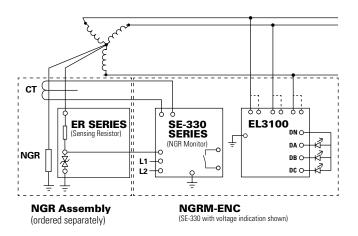
NGRM-ENC SERIES





Simplified Circuit Diagram



Description

The NGRM-ENC Enclosed Neutral-Grounding-Resistor (NGR) Monitor series is a Type 4X enclosure housing a Littelfuse Startco SE-325 or SE-330 Neutral-Grounding-Resistor Monitor and optional accessories that include a 480/600-V control power transformer (CPT), faulted-phase indication (FPI; implemented with an EL3100 Ground-Fault & Phase-Voltage Indicator), earth-leakage panel meter, pulse-enable control, and mounting options. Appropriate fusing is included and field wiring is to terminal blocks.

Options



SE-325 Neutral-Grounding-Resistor Monitor

Measures current and voltage in a transformer or generator neutral-to-ground connection and continuity of the neutral-grounding resistor. For applications in Canada use the SE-330 to meet 2018 CEC 22.1 requirements.



SE-330 Neutral-Grounding-Resistor Monitor

Advanced ground-fault and neutral-grounding resistor monitoring relay that measures neutral current, neutral-to-ground voltage, and neutral-to-ground resistance.



EL3100 Ground-Fault & Phase-Voltage Indicator

Three panel-mounted LEDs indicate the ground-faulted phase.



Panel Meter

Panel-mounted meter displays earth leakage current as a percentage of the ground-fault-CT-primary rating.



RK-332/RK-302 Remote Indication and Reset

Panel-mounted remote indication and reset assemblies are included with SE-325 and surface-mounted SE-330 configurations.

Ordering Information

The following options are available with a faster delivery time and are commonly stock items:

| ORDERING NUMBER | PROTECTION RELAY OPTION | NGR MONITOR MOUNTING OPTION | AMMETER & PULSE CONTROL OPTION | COMMS | CONTROL-POWER TRANSFORMER OPTION |
|--------------------|-------------------------|-----------------------------------|-----------------------------------|-------|--|
| NGRM-ENC-000-00 | SE-325 | Surface Mount | None | None | None |
| NGRM-ENC-200-00 | SE-330 (N.O. K4) | Surface Mount | None | None | None |

The following options are built to order:

| ORDERING NUMBER | PROTECTION RELAY OPTION | NGR MONITOR MOUNTING OPTION | AMMETER & PULSE CONTROL OPTION | COMMS | CONTROL-POWER TRANSFORMER OPTION |
|--------------------|---------------------------------------|-----------------------------------|--|----------------------------|--|
| NGRM-ENC-000-01 | SE-325 | Surface Mount | None | None | СРТ |
| NGRM-ENC-200-01 | SE-330 (N.O. K4) | Surface Mount | None | None | СРТ |
| NGRM-ENC-200-10 | SE-330 (N.O. K4) | Surface Mount | Earth leakage Panel Meter | None | None |
| NGRM-ENC-200-20 | SE-330 (N.O. K4) | Surface Mount | Earth leakage Panel Meter & Pulse Enable Switch | None | None |
| NGRM-ENC-201-00 | SE-330 (N.O. K4) | Panel Mount | None | None | None |
| NGRM-ENC-201-10 | SE-330 (N.O. K4) | Panel Mount | Earth leakage Panel Meter | None | None |
| NGRM-ENC-201-20 | SE-330 (N.O. K4) | Panel Mount | Earth leakage Panel Meter & Pulse Enable Switch | None | None |
| NGRM-ENC-201-21 | SE-330 (N.O. K4) | Panel Mount | Earth leakage Panel Meter & Pulse Enable Switch | None | СРТ |
| NGRM-ENC-230-00 | SE-330 (N.O. K4) | Surface Mount | None | Ethernet, dual RJ45 | None |
| NGRM-ENC-231-01 | SE-330 (N.O. K4) | Panel Mount | None | Ethernet, dual RJ45 | СРТ |
| NGRM-ENC-241-00 | SE-330 (N.O. K4) | Panel Mount | None | Ethernet, 1 RJ45 & 1 Fiber | None |
| NGRM-ENC-331-01 | SE-330 (N.O. K4) & Voltage Indication | Panel Mount | None | Ethernet, dual RJ45 | CPT |
| NGRM-ENC-401-00 | SE-330 (N.C. K4) | Panel Mount | None | None | None |
| NGRM-ENC-401-20 | SE-330 (N.C. K4) | Panel Mount | Earth leakage Panel Meter & Pulse Enable Switch | None | None |
| NGRM-ENC-430-00 | SE-330 (N.C. K4) | Surface Mount | None | Ethernet, dual RJ45 | None |
| NGRM-ENC-431-21 | SE-330 (N.C. K4) | Panel Mount | Earth leakage Panel Meter & Pulse Enable Switch | Ethernet, dual RJ45 | СРТ |
| NGRM-ENC-530-11 | SE-330 (N.C. K4) & Voltage Indication | Surface Mount | Earth leakage Panel Meter | Ethernet, dual RJ45 | CPT |
| NGRM-ENC-540-00 | SE-330 (N.C. K4) & Voltage Indication | Surface Mount | None | Ethernet, 1 RJ45 & 1 Fiber | None |
| NGRM-ENC-540-10 | SE-330 (N.C. K4) & Voltage Indication | Surface Mount | Earth leakage Panel Meter | Ethernet, 1 RJ45 & 1 Fiber | None |

Disclaimer Notice – Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at www.littelfuse.com/product-disclaimer.

