

INVERSION LOSS and phase imbalance detector

DSP-1L

with protective cover



DESCRIPTION

The DSP-1L or DSP-1LM is used to protect your three-phase motors against loss, imbalance or inversion. It continuously monitors each phase of your power supply. In case of phase loss, imbalance or inversion, the DSP-1L cuts off the power to the control circuit and thus protects the motor concerned.

The DSP-1LM is used to transmit a signal to a PLC. As soon as the three-phase power supply returns to normal, the DSP-1LM enables the engine to restart normally and safely. However, the DSP-1LM's Optomofset contact will trip again.

Would you dare to connect your electrical equipment to a power supply not protected by fuses or circuit breakers? So now that you know about the DSP-1L and DSP-1LM detectors, you know how to protect the production of your business against phase failures.



FEATURES

- ▶ Human protection cover
- ▶ Two (2) year warranty
- ▶ CSA and UL approved (UL[®] US)
- ▶ Fully cast in epoxy
- ▶ Requires no secondary power source
- ▶ Self-checking electronic circuit
- ▶ High-quality design
- ▶ Small design
- ▶ Easy to install
- ▶ No adjustment needed

SPECIFICATIONS

WORKS UNDER THREE-PHASE VOLTAGE

OPERATING VOLTAGES: 600 V, 480 V, 240V or 208 V

OPERATING FREQUENCIES: 50 Hz or 60 Hz

CURRENT CONSUMPTION: 6 mA

RESPONSE TIME: 2 to 3 seconds

CALIBRATION: 8% to 9% imbalance

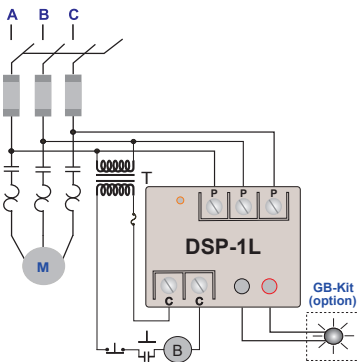
OPTION: GB-KIT – NEMA 4X Remote Light

The contact of the DSP or DSP-1L-1LM is normally open. Once the phases are connected and no faults are detected, it closes after 2 or 3 seconds. It will open again as soon as a failure is detected. The detector's epoxy coating provides very good protection against moisture, corrosion, dust and vibrations. No adjustment is required because our electronic circuit calibrated between 8% and 9% imbalance is completely sealed. The DSP-1L or DSP-1LM samples the voltage and not the current. It can therefore be installed on a 1 or 2,000 HP engine.

Also, our DSP-1L or DSP-1LM, in addition to being resistant to normal voltage fluctuations, is also equipped with a visual alarm indicator (LED).

For specific situations, a remote indicator light (GB-Kit Option) can be installed on the front of the control panel. The GB-Kit lights up regardless of the phase that is missing because it is not powered by the control transformer.

INSTALLATION

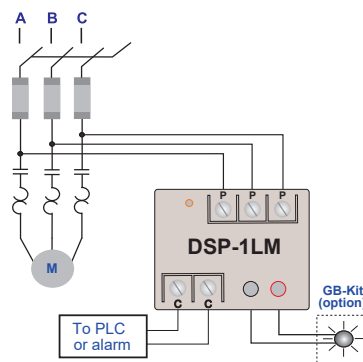


DSP-1L

OUTPUT CONTACT: Triac

CONTACT RATING:

24 VAC to 240 VAC / 4 A



DSP-1LM

OUTPUT CONTACT: Optomofset

CONTACT RATING:

30 VDC - 120 VAC / 120 mA

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