



Powering Innovation



PROTECTION + AUTOMATION + CONTROL

**THREE POLE, NUMERICAL ,NON-DIRECTIONAL
3 O/C OR 2 O/C+1 E/F RELAY WITH INST. HIGHSET
JNC 066/JNC 066P**

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FEATURES

- ◆ Software based design
- ◆ Choice of four curves and definite time
- ◆ History of 5 latest faults
- ◆ Self supervision facility
- ◆ Wide setting ranges
- ◆ Draw -out case

Application

The relay provides time graded phase and earth fault protection of Generators, Transformers, Feeder, capacitors etc.,



PRINCIPLE OF OPERATION

The relay provides over current protection for power systems. Relay operating time is determined by selecting definite time characteristics or one of the four inverse time characteristics i.e. (3s normal inverse, 1.3s normal inverse, 1.5s very inverse and 0.8s extremely inverse). The relay measures the current from each phases and if it exceeds the set threshold, the relay extends a trip signal after an operating time as determined by the selected curve.

TECHNICAL DATA

RATING

Current rating (I _n)	1A / 5A
Aux. Supply	1) 20 to 60V DC 2) 75 to 150V AC / DC 3) 175 to 300V DC / 185 to 250V AC

SETTINGS

Operating characteristics	1) 3.0s Normal Inverse 2) 1.3s Normal Inverse 3) 1.5s Very Inverse 4) 0.8s Extremely Inverse 5) Definite time
Phase O/c (IDMT)	: 50 to 200% in steps of 5%
Definite time	: 0.1 to 25.0 Sec in steps of 0.1s
Earth fault (IDMT)	: 5 to 50% in steps of 1% 10 to 80% in steps of 1%
TMS	: 0.02 to 1.0 in steps of 0.01 (separate for O/C & E/F)
Reset Mode	: Hand / Self Reset (Programmable , Common for Phase & E/F)

OVER LOAD RATING

Current input : 2 times rated continuous
: 20 times rated for 3s

BURDEN

Current input : 0.2 VA per phase (rated 5A)
0.05VA per phase (rated 1A)
Aux. Supply : Less than 8W (Non operated)
Less than 10W (Operated)

ACCURACY

Operating value : 105% to 120% of setting
Drop-off I pick-up : Between 80% to 95%
Operating Time : $\pm 5\%$ or $\pm 30\text{ms}$ whichever is higher
High set operating value : $\pm 5\%$ or $\pm 30\text{ms}$ whichever is higher
High set operating time : Less than 30ms @ 2 times current setting
Reset Time : 160ms to 180ms

CONTACT RATINGS

TRIP / ALARM / Self Supervision : 10A at 24V DC / 230V AC

CONTACT DURABILITY

Loaded contact : 10,000 operations min.
Unloaded contact : 20,000 operations min.

INSULATION

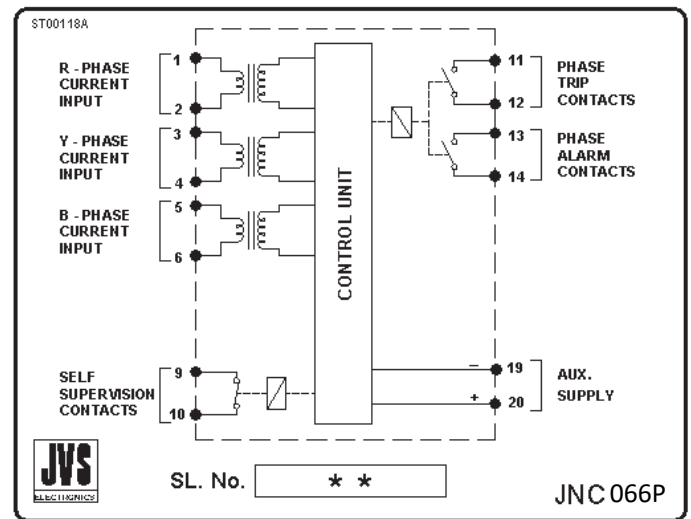
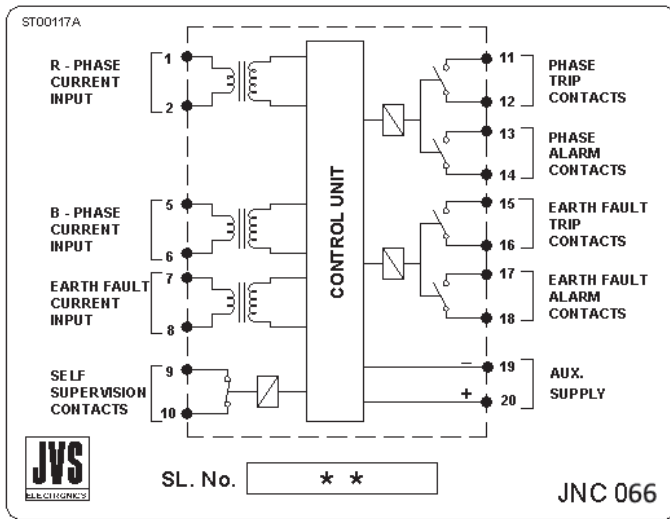
1. 2KV RMS, 50 Hz for 1 minute / 2.5 KV for 1 sec . Between all terminals and earth.
2. 1KV RMS, 50 Hz for 1 minute across open contacts.

MECHANICAL DESIGN

Weight Case : 2500 gms. (approx),
Size : 144sq mm, depth 232mm
Installation : Flush mounting
Panel cutout : 138mm x 138mm

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TERMINAL DIAGRAM



ORDERING INFORMATION

- Relay type : JNC 066 (2O/C + E/F)
JNC 066P (3O/C)
- Specify E/F : 5 - 50% or 10 - 80%
- Current rating : 1A or 5A
- Aux. Supply : 20 to 60V DC or
75 to 150V AC/ DC or
175 to 300V DC / 185 to 250V AC