



AC Line Reactors

For input or Output of Adjustable Speed Drive / Inverter systems

SPECIFICATION (LR2-400 ECONOMICAL SERIES)

1. Standard : JIS C 4901 (2000) ; IEC 60289 (1988)

2. Service Conditions

Ambient temperature : -20 ~ +50°C (-20 / B)
 Altitude (maximum) : 1000m
 Insulation class : F (155 °C)
 The reactor will be : core type, dry-type, natural cooled and suitable for indoor installation.

3. Ratings

Impedance at rated current : **2%**
 Number of phase : Three phase
 Maximum system voltage : 600V
 Rated frequency : 50Hz
 Reactor voltage at rated current : 4.62V
 Rated inductance : See Table
 Rated current : See Table
 Permissible output tolerance : +/- 10%
 Maximum permissible over-current : 125% of rated current for 30 min.
 Temperature rise of winding (average) : 85°C (at 100% of rated current)
 Overload rating : 200% of rated current for 5 min.
 Approx. Weight : See Table

4. Insulation levels

Between terminals , terminals to ground : 3000V r.m.s. x 1 min..
 Insulation resistance : Not less than 100MΩ

5. Specification for Thermal Sensor (Optional)

Contact : Normal closed , Operating temp. : 125°C
 Capacity of contact : AC 277V 8A , Size of terminal : M3

6. Among the harmonic compensated line reactors benefits are:

- Virtual elimination of nuisance tripping of drives due to utility power factor correction capacitor switching
- Attenuation of line harmonics
- Extended switching component life (transistors, SCRs)
- Extended motor life
- Reduced motor operating temperature (20 to 40°C)
- Reduced audible motor noise (3 to 5 db)
- Minimized power disturbances
- Filtered electrical noise (pulsed distortion and line notching)
- Waveform improvement

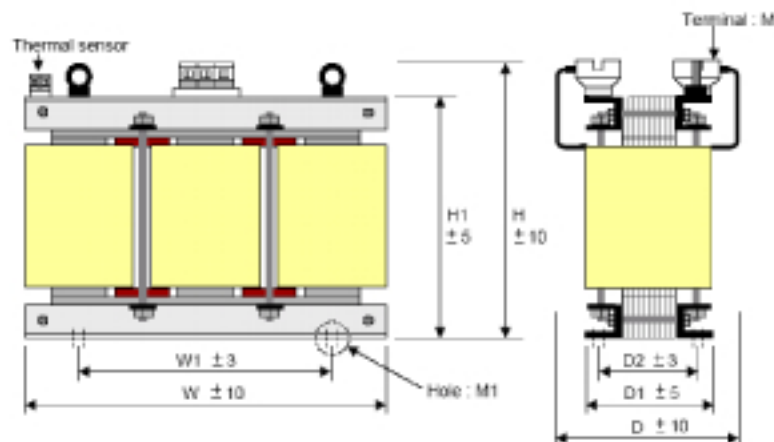


Fig. No. 1

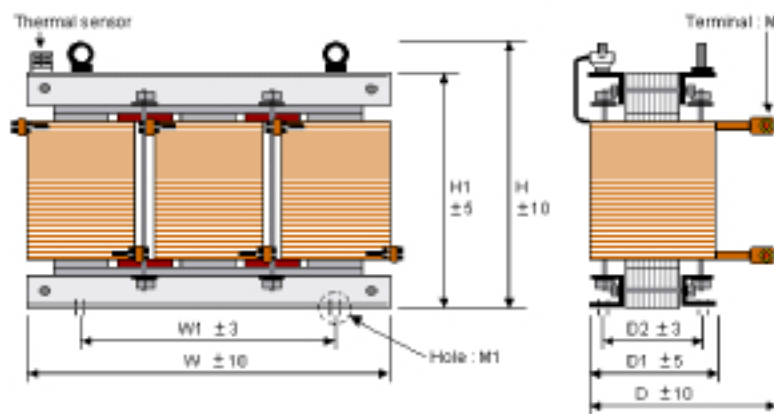


Fig. No. 2

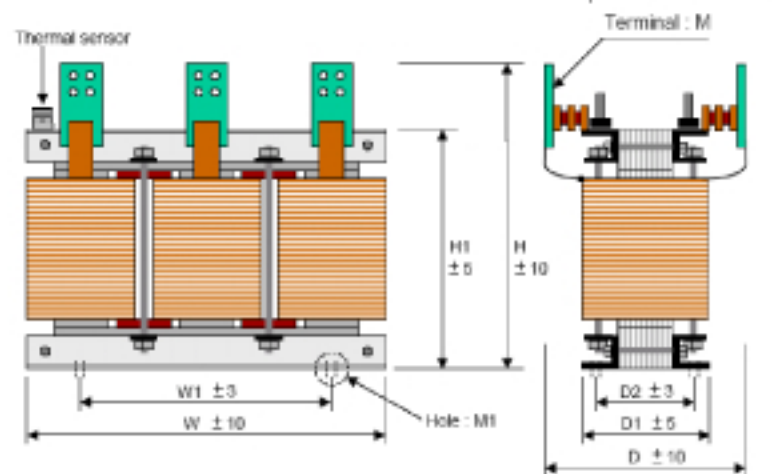


Fig. No. 3