Draft Specifications for Block type Contactors

- Contactors should comply with the IEC947-4 and the corresponding IS13947-4 standards.
- Contactors should be rated for AC3 duty at 415V and 50Hz.
- Contacts should be fast closing and fast opening type.
- Contactors selected should have Minimum Making and Breaking capacity values as given below :
  - Making Capacity equal to than 10 Ie
  - Breaking Capacity equal to than 8 Ie

- The contactors should be capable of frequent switching and should operate without derating at 50^0C for AC3 applications. They should be climate proof as standard.
- Coil of the contactor should **have class F** insulation to support frequent switching.
- Minimum rated Operational voltage of the contactor shall be equal to 550V.
- Rated insulation voltage shall be 690 V.
- The rated impulse voltage of the contactor should be 6KV up to 50A and 8 KV up to 630A.
- The contactor should be modular in design and shall have a built 1NO / 1NC auxiliary contact.
- Keeping in Mind reduction in inventory of Spares, Contactors should have possibility of using same add on Auxiliary contact Blocks, Coils for various ratings of contactors.
- Also it should be possible to mount others electrical accessories on to the contactor without any compromise on the performance or the operation.
- For higher rated contactors like 550A or 630A, it is preferred to have a Magnet system whose design should be such that the impact on mounting surfaces has to be minimised.
- The control and power terminals should be at separate layers preferably to avoid termination errors.
- Contactors power connection will be finger safe (IP2X) as standard.
- Thermal over load relay if used will be directly mounting under the contactor without any specific connections.
- Thermal overload relay should have features like trip indication, OFF / Reset Buttons, on button, locking facility for to prevent tampering of relay setting.