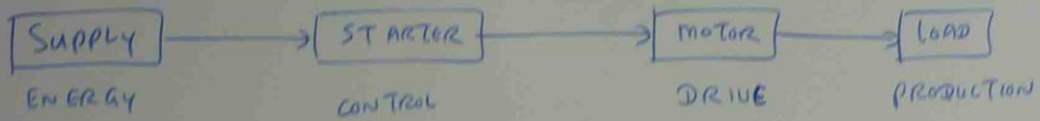
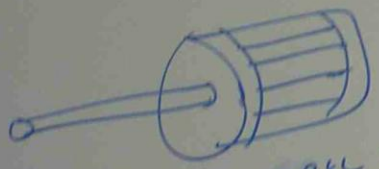
GOOG (1) CONTROL CIRCUIT

MOTOR STARTERS ARE THE DEVICES WHICH ARE CONNECTED BETWEEN THE SUPPLY LINES AND THE MOTOR IN A FUNCTIONAL SYSTEM



INVERTER



SQUIRREL CAGE ROTOR

STARTING CURRENT = UP TO 8 X FULL LOAD CURRENT

STARTING TORQUE = UP TO 3 X FULL LOAD TORQUE

REDUCED VOLTAGE STARTER — TO REDUCE THE SUPPLY CURRENT

- REDUCE DISRUPTION
- CONTROL STARTING TORQUE
- CONTROL ACCELERATION RATE
- REDUCE MECHANICAL STRESS
- REDUCE HEATING
- LESS TRANSIENT

METHOD

- STAR - DELTA STARTE
- PRIMARY RESIST STARTER
- AUTO TRANSFORM STARTER
- SECONDARY RE STARTE

NECTED BETWEEN THE SUPPLY

LOAD

RODUCTION

= UP TO 8 X FULL LOAD CURRENT

: UP TO 3 X FULL LOAD TORQUE

REDUCE THE SUPPLY CURRENT

RATE

INVERTER SYSTEM → 3φ MOTOR

PARTIAL DISCHARGING

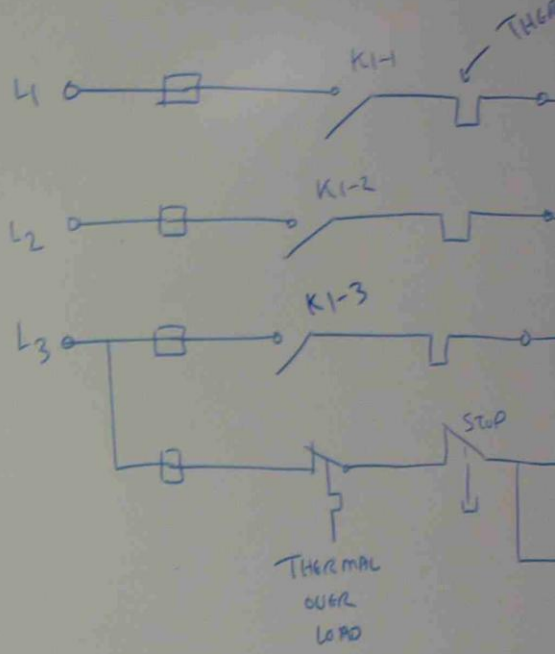
APPROPRIATE FILTERING

METHOD

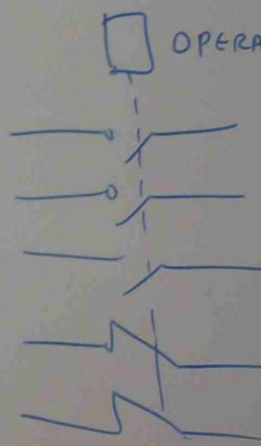
- STAR-DELTA STARTER
- PRIMARY RESISTANCE STARTER
- AUTO TRANSFORMER STARTER
- SECONDARY RESISTANCE STARTER

FULL VOLTAGE

- DIRECT ON LINE DOL STARTER
- ELECTRONIC SOFT START STARTER.



CONTACTORS



3φ MOTOR

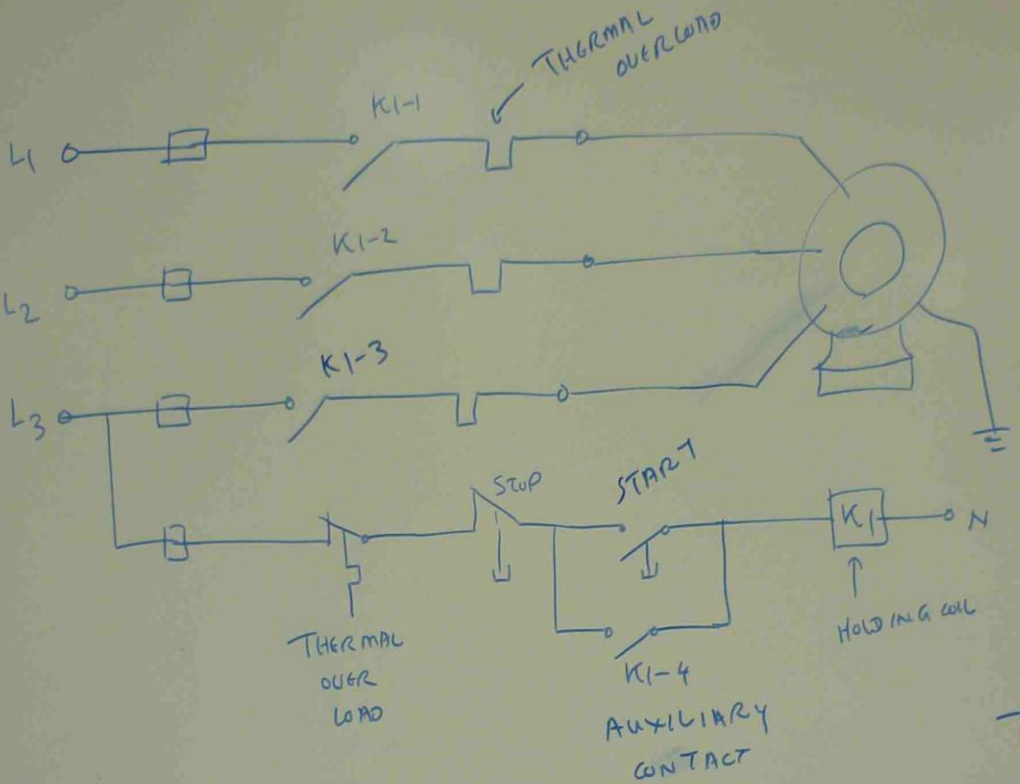
RTIAL DISCHARGING

PPROPRIATE FILTERING

FULL VOLTAGE

DIRECT ON LINE
DOL
STARTER

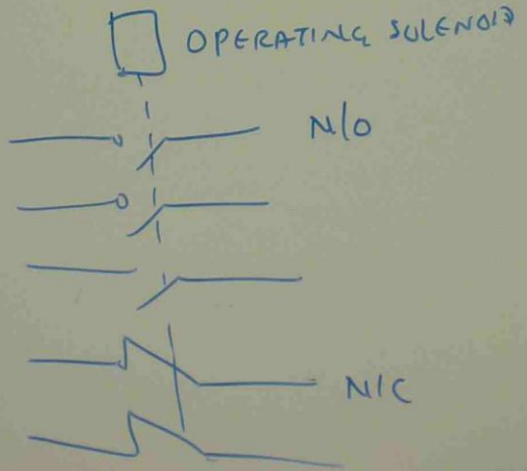
ELECTRONIC SOFT
START
STARTER.



CURRENT ∝ VOLTAGE

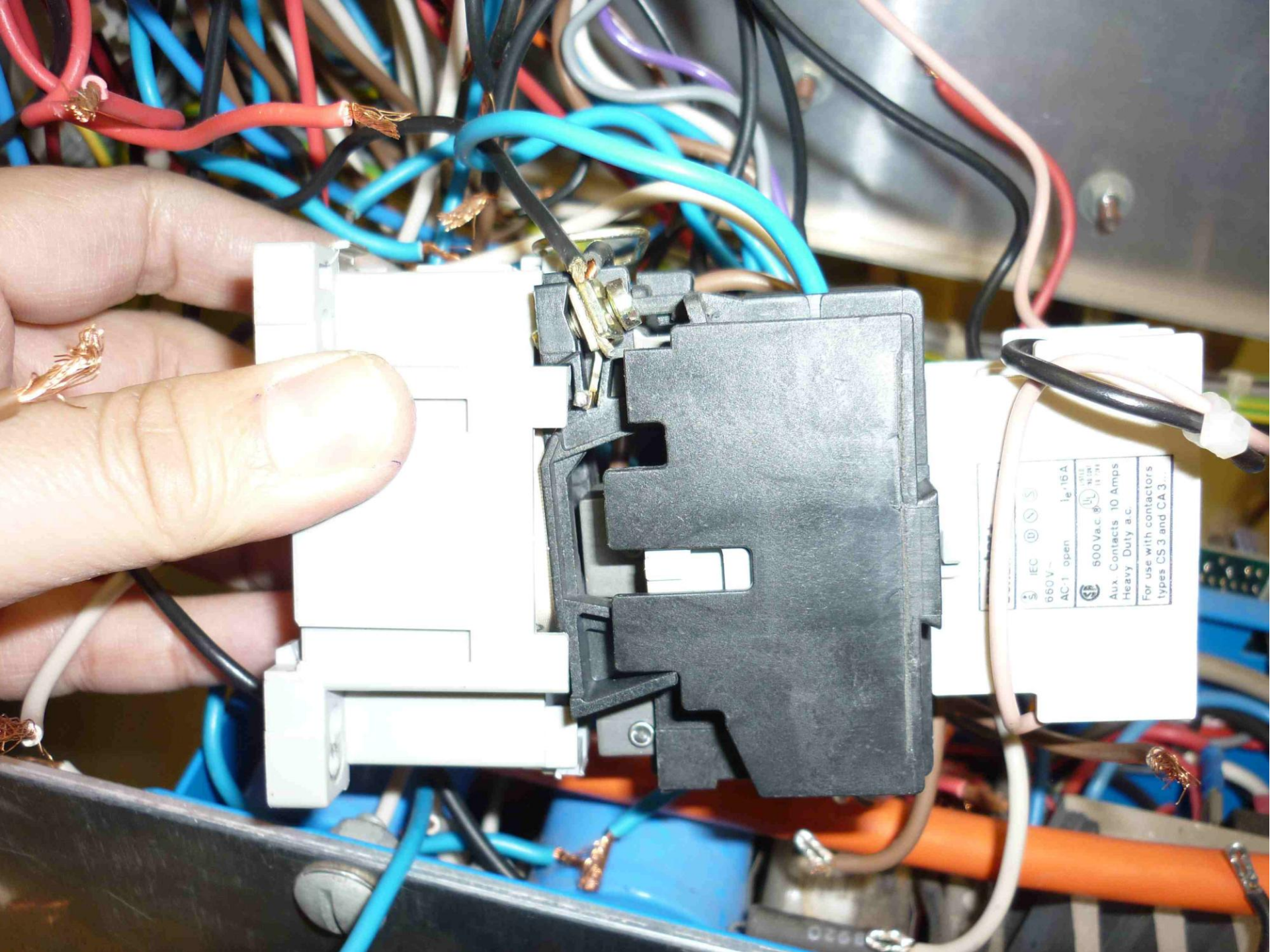
TORQUE ∝ (VOLTAGE)^2

CONTACTORS



$$\text{LOCKED ROTOR CURRENT} = \frac{1}{0.5} \times \text{MEASURED CURRENT}$$

$$\text{LOCKED ROTOR TORQUE} = \frac{1}{(0.5)^2} \times \text{MEASURED TORQUE}$$


IEC
660V~
AC1 open
600Va.c
Aux Contacts 10 Amps
Heavy Duty a.c
For use with contactors
types CS3 and CA3...