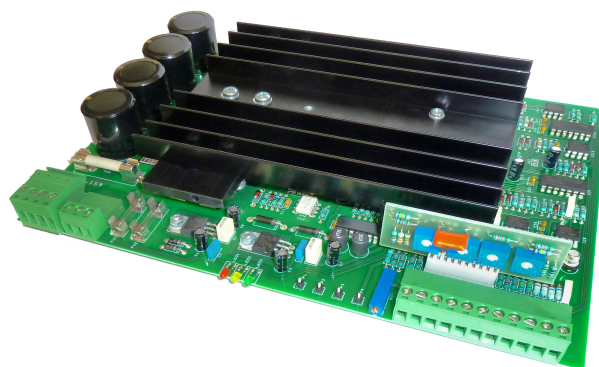


## DESCRIPTION :

The NE2220 is a transistorized PWM servo controller that is intended for use as a general purpose controller of permanent magnet, brushed, dc servomotors with power ratings up to 2700 watts.

The NE2220 can be configured as either a speed controller, where the feedback signal is from a dc tachogenerator, or as a current controller.

It has been designed to be a replacement for both the NE2110 and NE2120 servo controllers.



## FEATURES :

- 4-Quadrant operation.
- Operating parameters on customizable Personality Module.
- Can be configured for both Velocity and Current (Torque) control modes.
- Current fold-back function limits the average current available to the motor.
- Short-circuit protection.
- Heat sink over-temperature protection.
- Positive and negative over-travel limit inputs.
- LED status indication.

| Technical Data          |       |       |      |
|-------------------------|-------|-------|------|
| Bus Voltage             | Max.  | 180   | V DC |
|                         | Min.  | 24    | V DC |
| Armature Output Current | Peak  | 30    | A    |
|                         | Cont. | 15    | A    |
| Switching Frequency     |       | 10    | kHz  |
| Armature Inductance     | Min.  | 2.0   | mH   |
| Operating Temperature   | Min.  | 0     | °C   |
|                         | Max.  | 50    | °C   |
| Height                  |       | 233.4 | mm   |
| Width                   |       | 160   | mm   |
| Depth                   |       | 40    | mm   |
| Protection Class        |       | IP00  |      |

## CONTROL SIGNALS :

|             |                                              |
|-------------|----------------------------------------------|
| Command I/P | ±10V Differential input                      |
| Tach I/P    | ±50V Single-ended tach feedback input        |
| Enable I/P  | )                                            |
| +Limit I/P  | )--- Active-high, +15V to +24V input         |
| -Limit I/P  | )                                            |
| Fault O/P   | NPN open collector output.<br>24V, 75mA max. |

## USER ADJUSTMENTS :

All adjustments (apart from the Offset) are made on a customizable Personality Module.

They are:

|                                             |                       |
|---------------------------------------------|-----------------------|
| <input type="checkbox"/> Offset             | Pot on main board     |
| <input type="checkbox"/> Stability          | Pot / fixed resistors |
| <input type="checkbox"/> Peak current limit | Pot / fixed resistors |
| <input type="checkbox"/> Command gain       | Pot / fixed resistors |
| <input type="checkbox"/> Tach gain          | Pot / fixed resistors |

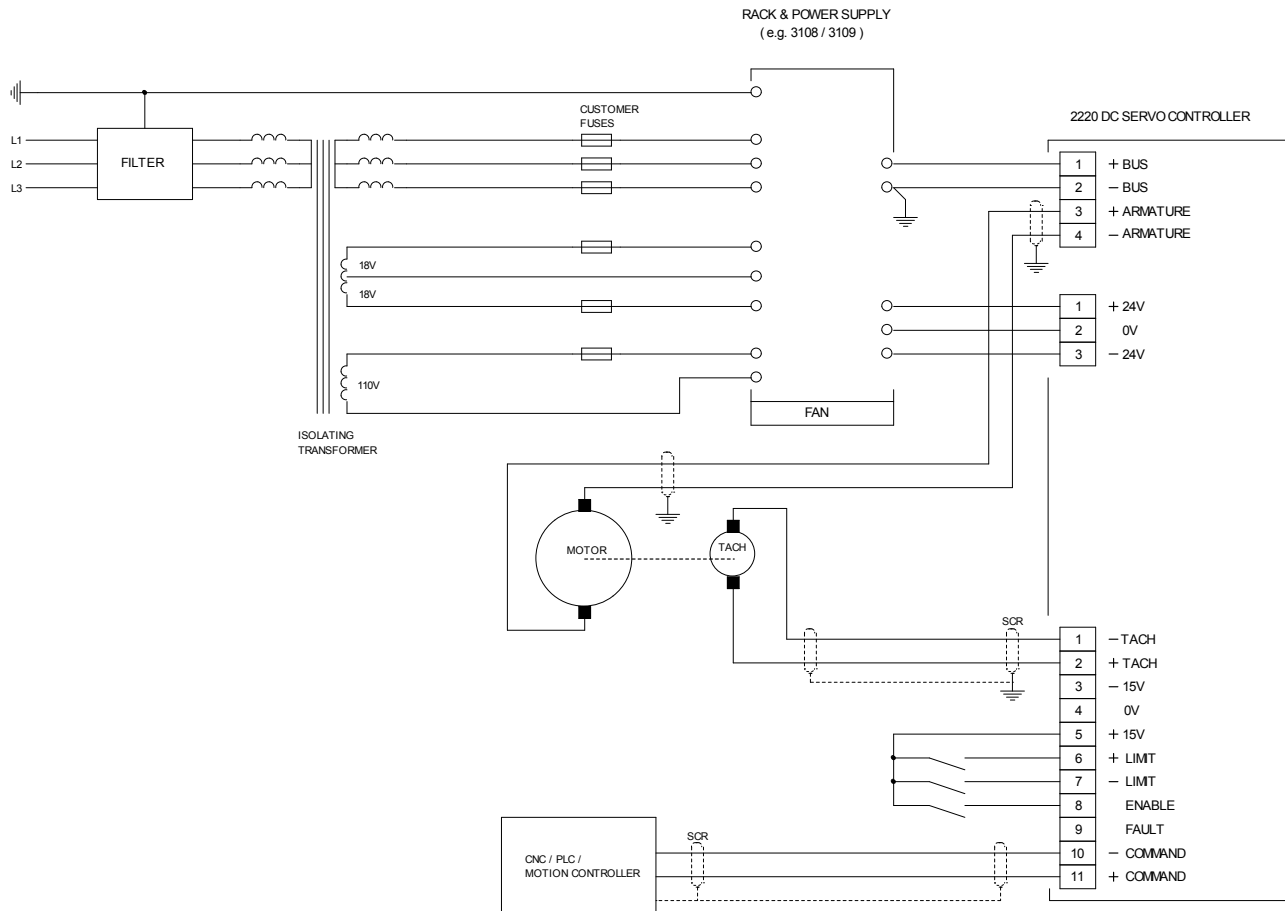
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## ELECTRICAL CONNECTIONS



## OUTLINE DIMENSIONS

