

# Regenerative resistor

When the motor opposes the direction of rotation as in deceleration or vertical axis escalation, part of the regenerative energy will be delivered back to the driver. This energy will first be stored in internal capacitors of the driver. When the energy stored in the capacitors reach the maximum capacity, a regenerative resistor is required the excessive energy to prevent over-voltage.

## Recommended selection of regenerative resistor

Model	Internal resistance (ohm)	Internal resistor power rating (W)	Minimum resistance (ohm)	Minimum power rating (W)
NL7-EC400F	100	50	50	50
NL7-EC750F	50	75	40	50
NL7-EC1000F	50	100	30	100
NL7-EC750FT	100	100	100	100
NL7-EC1000FT	100	100	100	100
NL7-EC1500FT	100	100	100	100
NL7-EC2000FT	50	100	40	100
NL7-EC3000FT	50	100	40	100
NL7-EC4400FT	35	100	35	100
NL7-EC5500FT	35	100	25	100
NL7-EC7500FT	35	100	25	100

From:

<https://www.nilab.at/dokuwiki/> - **NiLAB GmbH**

**Knowledgebase**

Permanent link:

[https://www.nilab.at/dokuwiki/doku.php?id=nl7\\_servo:resistor](https://www.nilab.at/dokuwiki/doku.php?id=nl7_servo:resistor)

Last update: **2024/03/12 06:31**

