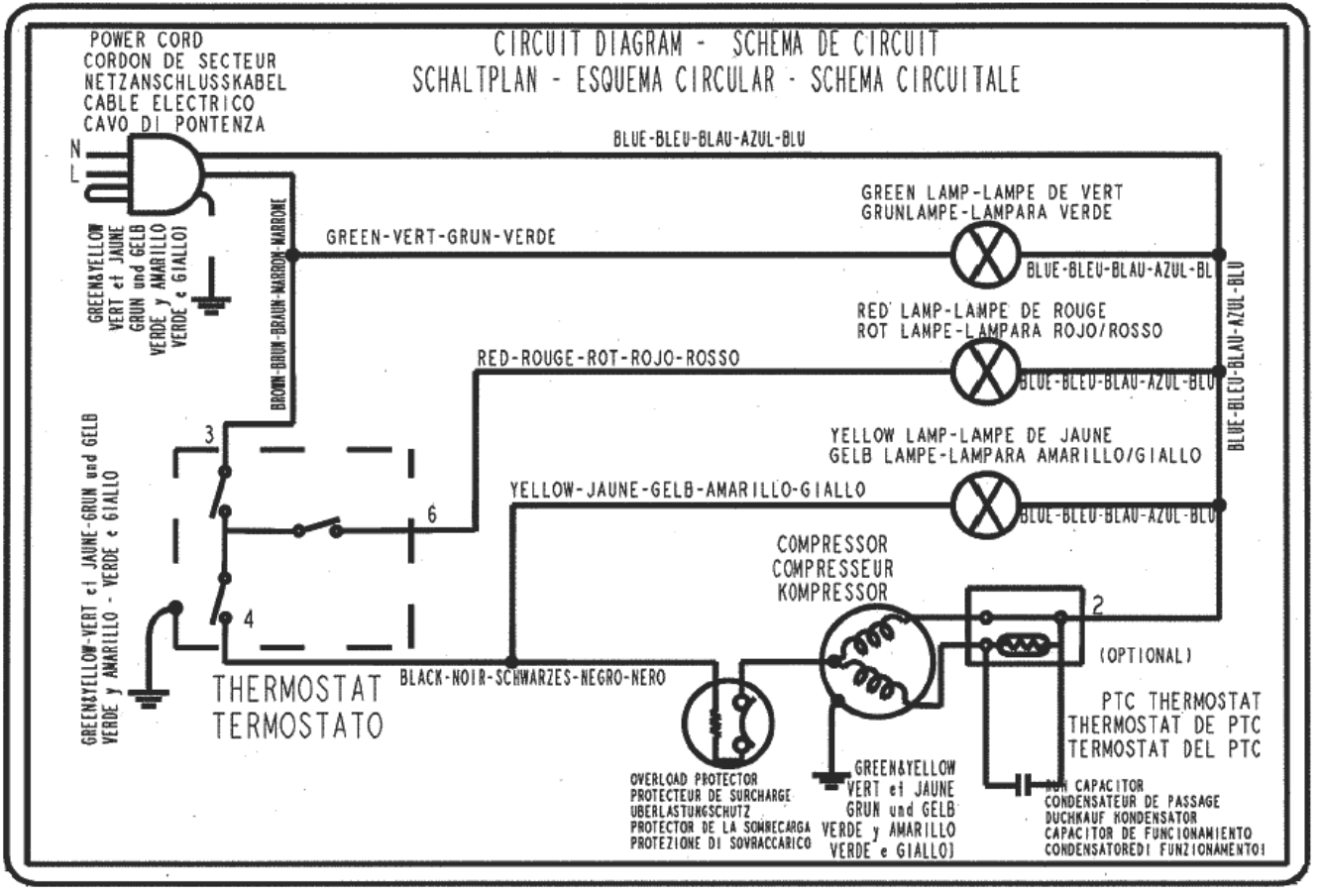CIRCUIT DIAGRAM / BGN1650