

Surge Protection Basics

Homeowners typically have a lot of money invested in expensive electronics and appliances (computers, washers, dryers, stoves, refrigerators, HVAC, etc). Most of these appliances and sensitive electronics are left unprotected from surges, which can cost homeowners thousands of dollars to replace if they were to be damaged. The National Electric Code® (2020) requires surge protection to be installed for all dwellings, new construction and retrofit installations.

What are they?

Surges, or “transient voltages”, occur when there is a temporary voltage spike that travels throughout your entire electrical, phone, network and/or cable system. These can be either externally generated (from weather or utilities) or internally generated from devices inside the home.

Why should I care?

Some power surges have enough strength to severely damage, if not destroy, home electronics and appliances. Surges happen regularly, though you may not be aware of their occurrence, wearing down and shortening the life of electronics.

How do surge protective devices work?

When a surge protective device senses a transient voltage spike, it uses internal components called Metal Oxide Varistors (MOVs). The MOVs act like magnets for the excess voltage, and sends it to the load center’s ground wire, before it can reach your home’s connected electronics.

Why Square D by Schneider Electric?

As an industry leader, Square D has decades of experience and products to meet all your residential surge protection needs. Protect what’s most important by protecting your home electrical circuits from surges.



Know the Facts

\$15,000

Value of at risk equipment in average homes today.

80%

of residential surges are caused by devices you use everyday.

Potential at risk equipment includes:

- Heating & Air Conditioning Units
- Televisions, Entertainment & Gaming
- Computers, Modems & Routers
- Personal electronics, tablets & cell phones
- High end exercise equipment
- Refrigerators & Freezers
- Microwaves & Electric Ranges
- Dishwashers
- Washers & Dryers
- Pool & Spa Pump Motors



SQUARE D™

Residential Surge Protection

Protect what’s most important by protecting your home electrical circuits from surges.

se.com/us/surge



Square D™ QO & Homeline Surgebreaker Models
QO2175SB & HOM2175SB (requires 2 spaces)



Square D™ QO and Homeline Plug-on Neutral
QO250PSPD & HOM250PSPD (requires 2 spaces)



Square D™ HEPD25 (outdoor rated)
Works for any brand electrical panel, HVAC or pump motor
HEPD25MKF (Flush Mount Kit) for finished spaces.



Square D™ HEPD50 (outdoor rated)
Works for any brand electrical panel, HVAC or pump motor
HEPD58MKF (Flush Mount Kit) for finished spaces.



Square D™ HEPD80 (outdoor rated)
Works for any brand electrical panel, HVAC or pump motor
HEPD58MKF (Flush Mount Kit) for finished spaces.