

Product warranty statement

THQLSURGE2 residential Surge Protective Device

Manufacturer's limited warranty terms

ABB warrants that your ABB Surge Protective Devices (SPD), shall meet applicable industry standards and specifications and be free from defects in both materials and workmanship, within the SPD product series warranty period as outline herein.

Original Purchaser's rights under the warranty shall consist solely of requiring ABB to repair or replace at ABB's discretion, free of charge, F.O.B. factory, any defective items received at said factory within said term determined by ABB to be defective. The giving of or failure to give any advice or recommendations by ABB shall not constitute any warranty by or impose any liability upon ABB. The foregoing constitutes the sole and exclusive remedy of the original purchaser and the exclusive liability of ABB and is in lieu of any and all other warranties expressed, implied or statutory as to the merchantability, fitness for purpose sold, description, quality, productiveness or any other matter. In no event shall ABB be liable. At the end of the warranty period, ABB shall be under no further warranty obligation expressed or implied. The products covered by this warranty certificate can only be repaired or replaced by the factory. The foregoing warranty does not cover reimbursement for labor, transportation, removal, installation, or other expenses which may be incurred in connection with repair or replacement.

If a damage occurs on electronics equipment owned by the original purchaser, including, without limitation, refrigerators, freezers, air conditioners, stoves, ovens, microwave ovens, clothes washers and/or dryers, dishwashers, video equipment, televisions, computers, audio, and stereo components ("Connected Equipment"), and this damage is due to an electrical surge only, ABB will pay to repair or replace the damaged Connected Equipment. This coverage is secondary to any applicable warranties, service contracts and/or all other insurance. If the claim is found to be valid, ABB will pay up to the deductible of the homeowner's insurance or the cost of the damage based on its fair market, depreciated value at the time of damage, whichever is less, and shall in no event exceed \$25,000.

The warranty on Connected Equipment applies when the following conditions are met:

- Proper installation in accordance with the installation instruction included within the product packaging; connected, and installed in a residential by qualified licensed electricians, complying with all National Electrical Code requirements for residential installations.
- The connected equipment must be UL or CSA approved, and damaged due to an AC electrical surge. The connected equipment warranty excludes damages caused by a surge coming through telephone cable, coax, or data cables feeding connected equipment.
- Failure due to direct lightning strikes and temporary overvoltage are not covered.
- ABB shall have the right to inspect the returned Product and/or Connected Equipment and determine whether it is defective.
- ABB reserves the right to inspect the damaged components as well as the location where the components were in use (at ABB's expense).
- This warranty specifically excludes sprinkler systems and hard-wired security alarm systems, garage door operators or outdoor equipment including outdoor HVAC units and window-mounted air conditioners.
- Equipment or appliances are excluded when energized through alternative energy or energy storage systems.
- The Product shall be used for residential applications. Commercial applications of the Product are excluded.

Warranty limitations

This warranty does not apply and does not assume risk of liability for results of the use of the products purchased for results of: (a) Misapplication of product beyond capacities other than specified on the nameplate, installation inconsistent with instructions, opening or tampering with the base or protection plugs, normal wear. (b) Unauthorized product modification or alteration. (c) Unsuitability of any product for use in any circuit or assembly. Use in combination with any electrical or electronic components, circuits, systems, assemblies or any other materials or substances.

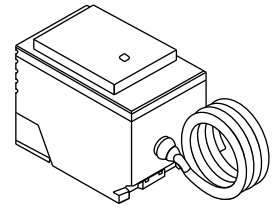
(d) Damages or loss associated with flood and earthquake, war, insurrection, terrorism, vandalism, theft, Erosion or Depletion, product misapplication or abused, inadequate storage, negligence. (e) This limited warranty is not transferable and applies to the original purchaser only. (f) This warranty coverage is valid only for installations in the United States.

Warranty claim procedure

- Contact ABB's Customer Care at +1-888-437-3765, Monday-Friday 8AM to 5PM EST, to obtain a Return Material Authorization number (RMA) and return material policy.
- With the returned unit, please include a copy of the RMA. Provide full claimant's name, address, email and phone number, original dated sales receipt of the product, damage report including copy of the claim report by the homeowner's insurance company.
- Provide an independent written report of damage regarding the Product or the Connected Equipment.
- File a claim for the damaged Product or Connected Equipment with your homeowner's insurance company.

Claim must be made within 30 days of failure. Repair or replacement will be returned to collect. If ABB finds the return to be a manufacturer's defect, the product will be returned prepaid.

Installation instructions



Introduction

The THQLSURGE2 SPD is a high-quality, high-energy Surge Protective Device designed to protect home electronics from damaging transient over voltages. The THQLSURGE2 is a parallel connected device designed to be installed in ABB PowerMark™ load center with 120/240 VAC. Proper installation is important for safety and maximum product performance.



WARNING – Hazardous voltages can cause severe personal injury or death and/or property damage. Remove all power to the electrical panel before installing or servicing this panel surge protective device.

Hazard of Electrical Shock, Explosion or Arc Flash

- All electrical work should be performed by a qualified electrical contractor. Please follow all applicable codes and standards in your area.
- Read this manual in its entirety prior to installation.
- Follow safe electrical work practices and use appropriate safety precautions including Personal Protection Equipment (PPE)
- Do not attempt to open or tamper the SPD in any way as this may compromise performance and will void the warranty.
- Do not Hi-Pot test. Megger and hi-potential tests may damage the device. Resulting damage is not covered under warranty.
- THQLSURGE2 must be installed within an enclosure.
- Verify that all power circuits are de-energized before making connections. SPDs should never be installed or serviced when energized or during electrical storms.
- Failure to follow these instructions can result in death, serious injury and/or equipment damage.

Installation

- Disconnect power to the load center.
- Remove the screws securing the front cover to the load center and remove the cover.
- The THQLSURGE2 requires two adjacent mounting spaces.
- Remove the blanks in the front panel.
- Install the THQLSURGE2 in the selected location. Ensure that it is properly seated with good contact to the bus bar.
- Route the white wire from the THQLSURGE2 to the neutral bar. Keep the wire as short and straight as possible. Strip 1/2 in. insulation and secure to the neutral bar.
- Re-install the front cover with the hardware previously removed.
- Re-apply power to the load center.

Introducción

El SPD THQLSURGE2 es un Dispositivo de Protección contra Sobretensiones de alta energía y alta calidad diseñado para proteger los aparatos electrónicos domésticos de las dañinas sobretensiones transitorias. El THQLSURGE2 es un dispositivo de conexión en paralelo diseñado para ser instalado en un centro de carga ABB PowerMark™ con 120/240 VCA. Una instalación adecuada es importante para la seguridad y el máximo rendimiento del producto.



AVERTISSEMENT – Une tension trop élevée peut entraîner des dommages matériels et causer des blessures graves ou même la mort. Coupez l'alimentation du tableau avant d'installer le DPS ou d'effectuer des travaux d'entretien.

Peligro de descarga eléctrica, explosión o arco eléctrico

- Todos los trabajos eléctricos deben ser realizados por un contratista eléctrico cualificado. Siga todos los códigos y normas aplicables en su zona.
- Lea este manual en su totalidad antes de la instalación.
- Siga las prácticas de seguridad de trabajos eléctricos y utilice las precauciones de seguridad apropiadas, incluyendo Equipo de Seguridad Personal (ESP).
- No intente abrir o manipular el SPD de ninguna manera, ya que esto puede comprometer el funcionamiento y anulará la garantía
- No haga la prueba Hi-Pot (alto potencial). Megger y las pruebas de alto potencial pueden dañar el dispositivo. Los daños resultantes no están cubiertos por la garantía.
- THQLSURGE2 debe instalarse dentro de un gabinete.
- Verifique que todos los circuitos de potencia estén desenergizados antes de hacer conexiones. Los SPD nunca deben instalarse ni repararse cuando están energizados o durante las tormentas eléctricas.
- El incumplimiento de las instrucciones puede causar daños al equipo, lesiones y/o hasta la muerte.

Instalación

- Desconecte la alimentación del centro de carga.
- Retire los tornillos que fijan la cubierta frontal al centro de carga y retire la cubierta.
- El THQLSURGE2 requiere dos espacios de montaje adyacentes.
- Retire las placas de relleno en el panel frontal.
- Instale el THQLSURGE2 dispositivo de protección contra sobrecargas en la ubicación

Introduction

Le THQLSURGE2 SPD est un Dispositif de Protection contre les Surintensités de haute qualité et à haute énergie conçu pour protéger les appareils électroniques domestiques contre les surtensions transitoires dommageables. Le THQLSURGE2 est un appareil à connexion parallèle conçu pour être installé dans un centre de charge ABB PowerMark™ avec 120/240 VAC. Une installation correcte est importante pour la sécurité et la performance maximale du produit.



ADVERTENCIA – los voltajes peligrosos pueden causar lesiones personales graves o la muerte y/o daños a la propiedad. Corte toda la energía del panel eléctrico antes de instalar o reparar este protector de sobretensión en el tablero.

Risque de chocs électriques, d'explosion ou d'arcs électriques.

- Tous les travaux électriques devront être effectués par un électricien qualifié. Veuillez respecter tous les codes et normes applicables de votre région.
- Lire entièrement le présent manuel avant installation.
- Suivre les pratiques de sécurité en vigueur de l'industrie électrique et prendre toute précaution nécessaire, incluant le port d'Équipements de Protection Individuel (EPI).
- Ne pas ouvrir ou modifier le SPD de quelque manière que ce soit, cela pourrait compromettre les performances et annulerait la garantie.
- Ne pas faire d'essai Hi-Pot (test à haut potentiel). Les tests au Megger et Hi-Pot peuvent endommager l'appareil. Ces dommages ne sont pas couverts par la garantie.
- Le THQLSURGE2 doit être installé dans un boîtier.
- Vérifier que l'ensemble des circuits soit hors tension avant d'effectuer les raccordements. Ne jamais installer ou intervenir sur un parasurtenseur sous tension ou pendant un orage.
- Le non-respect de ces instructions peut entraîner la mort, des graves blessures et/ou la détérioration des équipements.

Installation

- Débranchez l'alimentation au panneau de distribution.
- Retirez les vis du couvercle avant du panneau frontal et enlevez-le.
- Le THQLSURGE2 requiert deux espaces de montage adjacents.
- Retirez les obturateurs du panneau avant.

Maintenance

- During normal operation, the green LED on the THQLSURGE2 is illuminated. In the event that a surge causes the protection technology in the THQLSURGE2 to disconnect, the LEDs will not be lit and the unit must be replaced.
- To remove THQLSURGE2, first disconnect power to the load center. Firmly grasp the edges of the faulty unit with the pull it from the base. Remove the white wire connected to the neutral bar. Discard of the faulty unit and replace with a new one, using the installation instructions above.

seleccionada. Asegúrese de que está correctamente asentado y fijo con un buen contacto al bus de barra.

- Rutear el cable blanca desde el THQLSURGE2 a la barra neutra. Mantenga el cable lo más corto y recto posible. Desforrar 1/2 in(pulgada), aislar y asegurar de la barra neutro.
- Vuelva a instalar la cubierta frontal con el elementos retirados previamente.
- Vuelva a aplicar energía al centro de carga.

Mantenimiento

Durante el funcionamiento normal, el LED verde en el THQLSURGE2 se ilumina. En el caso de que un evento haga que THQLSURGE2 se desconecte, entonces los LEDs no se encenderán y la unidad debe ser reemplazada.

Para eliminar THQLSURGE2, primero desconecte la alimentación al centro de carga. Sujete firmemente los bordes de la unidad defectuosa con el tire de ella de la base. Retire el cable blanco conectado a la barra neutra. Deseche la unidad defectuosa y sustitúyala por una nueva, utilizando las instrucciones de instalación anteriores.

- Installez le THQLSURGE2 à l'endroit choisi. Assurez-vous du positionnement approprié et d'un bon contact avec les barres bus.
- Installez le fil blanc du THQLSURGE2 sur la barre de neutre. Gardez le fil aussi court et droit que possible. Enlevez l'isolant sur 1/2 po et fixez-le à la barre neutre.
- Réinstallez le couvercle avant avec la quincaillerie retirée précédemment.
- Rétablissez l'alimentation du panneau de distribution.

Entretien

En service normal, la DEL verte du THQLSURGE2 est illuminée. Si une surtension provoque la désactivation de la fonction de protection du THQLSURGE2, les DEL ne s'allument pas et l'appareil doit être remplacé.

Pour retirer le THQLSURGE2, débranchez d'abord l'alimentation du panneau de distribution. Tirez fermement sur les bords du module défectueux pour le retirer de sa base. Retirer le fil blanc relié à la barre neutre. Jetez-le et remplacez-le par une nouvelle unité en suivant les instructions d'installation ci-dessus.

General Specifications / Especificaciones Generales / Spécifications Générales

Part Number	THQLSURGE2
System Voltage	120/240 VAC
Protection Modes	L-L, L-N
Short-Circuit Current Rating (SCCR)	22 kA ⁽¹⁾
Nominal Discharge Current (In)	10 kA
Surge Capacity Per Phase (Imax)	25 kA
Frequency	50/60 Hz
Range °C	-20°C to +65°C
Enclosure	IP 20
Flammability	UL 94-V0
Humidity	0 to 95% non-condensing
SPD Type	Type 1
UL listing	UL 1449 5 th Edition
Warranty	3 Years, up to \$25,000 connected equipment warranty ⁽²⁾

(1) tested to 100kA

(2) See ABB THQLSURGE2 warranty document for details

Diagnostics / Diagnósticos / Diagnostic

LED Status Indicator:

- LED ON (green) = Good
- LED OFF = Unit is damaged and needs to be replaced; circuit is de-energized; SPD leads are disconnected

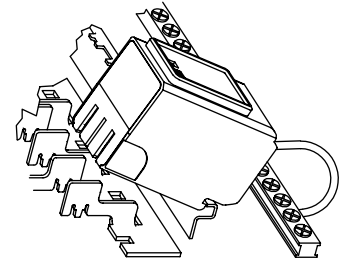
Indicador LED de estado:

- LED de encendido (verde) = Bueno
- LED OFF (apagado) = Unidad esta dañada y necesita ser reemplazada; circuito se desactiva; Cable del SPD está desconectado

Voyant indicateur d'état:

- Allume (vert) = Correct
- Eteint = appareil endommagé, doit être remplacé OU circuit hors tension OU cables parasurtenseur déconnectés

Mounting / Montaje / Montage



Wiring / Cableado / Câblage

