

Watt Hour Meter Base **Surge Arrester (Type1spd)** 120/240 VRMS

TES 240 MSA-LP Low Profile

Residential/Light Industrial





APPLICATIONS

UL1449 4th ed.120/240 VAC Surge Arrester for residential and light industrial usage. Installed at wattmeter, safely clamps and dissipates lighting induced AC line high voltage current impulses going to a residence or light industrial building. Also protects against AC line temporary overvoltage conditions. Surge suppressor with thermal protection designed to open in the event of over heating due to an abnormal over-voltage or temporary overvoltage (TOV) and will interrupt any abnormal current that may be encountered.

DESCRIPTION

Introducing the TES 240 MSA Surge Arrester, installed at wattmeter, service entry or weatherhead locations for residential and light industrial applications. The TES 240 MSA-LP Surge Arrester is specifically designed for long lifetimes even with strong lightning activity and temporary line overvoltage conditions. A tough Surge Arrester for tough line conditions.

ELECTRICAL-ENVIRONMENTAL SPECIFICATIONS

Type 1 SPD

50KA PEAK CAPABILITY

VOLTAGE:

120/240 VRMS

SINGLE PHASE, 50/60HZ, MCOV 150V

VOLTAGE PROTECTION RATING - VPR

L-L 1200V, L-G 600

NOMINAL DISCHARGE CURRENT (In) 10 KA

SHORT CIRCUIT CURRENT RATING

SCCR 100 KA (a), 10KA (b)

TYPE 3R ENCLOSURE

TYPE 1 SPD, TYPE 3R ENCLOSURE

Suitable for 400A ring or ringless style watt hour meter base.

Tested 260A Continuous when installed on CL320 Meter Can

End of Life Failure Mode

While in overvoltage induced thermal runaway, apply 7 KA at 120 VAC. Surge arrester must fail safe without faulting the AC line. No arcing allowed.

Enclosure Flammability (550° C or greater)

Ultra-Violet Resistance

Thermal Withstand

Salt-Fog Corrosion Resistance

Enclosure Dimensions

Recommended

Mounting

Surge arrester fails safesurge element punctures, safety fuse opens, LED turns off, no fire, slight puff of smoke out connector wiring opening. AC line not faulted. No arcing.

960° C, UL 94 V1 Good UV stability in tropical conditions

80° C.

Very good

2.75" deep X 7" diameter

Form 2S or 12S ring or ringless style

2025 TESCO LIMITED PRODUCT WARRANTY FOR SURGE PROTECTION CUSTOMERS

2051 N. Main Street, Suite 219 Coeur d'Alene, ID 83814

TESCO HEREIN PROVIDES A LIMITED PRODUCT WARRANTY ONLY. THIS IS NOT AN INSURANCE POLICY.

- Limited Warranty and Warranty Period. TESCO warrants that each TESCO Surge Protector, when installed according to
 TESCO installation instructions/specifications and used for the purposes intended by TESCO, will be free from defect in its
 materials and workmanship. This Limited Warranty will be in effect for ten (10) years from the original factory ship date of
 the surge protector or the first date the surge protector is first installed for any residential customer within one year from
 original factory ship date and the customer is also the person responsible for payment of the service. The First Installation
 Date of each System should be documented, but if not available it will be determined by TESCO in its reasonable discretion.
- Covered Warranty Claims. If a surge passes through a TESCO Surge Protector and fails (by failure indicator), TESCO will
 repair damage to or replace, in TESCO's sole and reasonable discretion, the following (except as stated in Paragraph 3 and
 4 below):
 - The Surge Protector,

Ten Year Product Replacement

TESCO will, at its option, repair or replace any Power Filter/Surge Protection Device that is damaged by an electrical surge (including those caused by lightning).

• Electronic office equipment and electro-mechanical appliances that are connected to the surge protector,

Ten Year Connected Equipment

1. \$50.000: TES 240MSA, TES 240R, TES 42SE, TES 46SE-1

(Up to \$5,000 per item, but not to exceed an aggregate \$50,000 per failure.)

2. \$25,000: TES 4PCT, TES 2PCT, TES 15NW, TES 20NW, TES 8CRJ45

3. \$10,000: TES 8C/8P, TES 20C

4. \$2,500: TES 4PC, TES 4PT, TES 4P

5. \$250: TES 1PT, TES 1PC, TES 1P, TES 3P, TES 3C

- Electronic office equipment such as computers, fax machines, modems, copiers, printers, scanners, etc., that are used in a home or office are covered under this warranty.
- 3. <u>Warranty Claim Exclusions</u>: TESCO is <u>not</u> responsible for any damage to the Surge Protector or any downline, in-home electronic equipment or mechanical appliances, if in TESCO's sole and reasonable discretion, the damage has been caused by any of the following:
 - Power surges subverting the Protector and entering the building to which the Protector is affixed by other means of transmission; Installation of the Surge Protector contrary to TESCO installation instructions
 - Misuse or abuse of the Protector; Alteration of the Protector or to the electrical, telephone, or cable system to which it
 is installed

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- Sustained over-voltages passing through the Protector (a "sustained over voltage" is any transmission greater than nominal voltage, including but not limited to that occurring when a high-voltage line comes in contact with a low-voltage line or neutral, a telephone line, and CATV line).
- Damage caused by a damaged or lost system "neutral"; downed power lines by any means.
- Damage caused by direct or near hit lightning strikes to the protected property that <u>bypass</u> the surge protection device; brownouts, under-voltage, blinks, abnormal voltage regulation, power outage and "acts of God"/ natural disasters, i.e., earthquakes, tornados, straight-line winds (i.e.-Derechos), hurricanes, and tropical storms; except lightning in the limited circumstances described.
- Any event for which a "state of emergency" is announced by any governmental authority concerning the Customer's geographic region or jurisdiction.
- 4. Excluded Warranty Claim Items. This Limited Warranty does not cover any damage to or from any of the following:
 - Real property and fixtures.
 - Equipment or appliances in or associated with detached buildings or garages, water or sewer systems, irrigation systems, swimming pool equipment and spas including hot tubs/Jacuzzi's.
 - Personal property, which in TESCO's reasonable discretion does not constitute ordinary in-home electronic equipment or mechanical appliances.
 - In-home electronic equipment or mechanical appliances which in TESCO's reasonable discretion deems to be used primarily for commercial purposes or extraordinary home office/business purposes.
 - Medical, health-care, and life-support equipment.
 - Products, materials, data, or information used or stored on or in in-home electronic equipment or mechanical
 appliances.
 - Detached buildings, garages, rental property and/or vacation property
- 5. Remedy for Breach of Limited Warranty. Customer's sole and exclusive remedy for this Limited Warranty will be to require TESCO to repair or replace the Protector, and if applicable to repair damage to downline, in-home electronic equipment and mechanical appliances, or replace with like kind, quality, and features. However, TESCO SHALL HAVE NO LIABILITY PURSUANT TO THIS LIMITED WARRANTY AND NO OBLIGATION TO REPAIR OR REPLACE ANY SYSTEM OR ANY EQUIPMENT OR APPLIANCE UNLESS ALL OF THE FOLLOWING CONDITIONS ARE SATISFIED:
 - Upon installation of the System, Customer receives a complete copy of this warranty from the Utility.
 - Not more than fourteen (14) days after Customer's discovery or suspicion of a failed/damaged surge protector
 Customer delivers to Utility or TESCO at the above address (by US mail, parcel service, phone call to the utility
 customer service or facsimile transmission) notice of such failure and any alleged damage covered by this Limited
 Warranty.
 - The Surge Protector was not altered and was at all times handled, installed, maintained, and used by Customer and/or
 Utility in accordance with this Limited Warranty, all written instructions, specifications, and warnings furnished by
 TESCO.

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- The customer may be required to deliver to Utility or TESCO a true, accurate, and reasonable written estimate by a qualified professional of the value and cost of repair (and description of the damage) for any downline, in-home electronic equipment or mechanical appliances allegedly damaged at the same time the TESCO surge protector failed. TESCO will determine in its reasonable discretion that there has been a failure of a TESCO Surge Protector resulting in a valid warranty claim. In the event that TESCO is liable for a warranty claim, the decision between whether to repair or to replace the Surge Protector and any covered downline, in-home electronic equipment and mechanical appliances shall be made by TESCO in its sole discretion.
- 6. Fraudulent Warranty Claims and Waiver of Right to Future Warranty Claims. CUSTOMER UNDERSTANDS AND AGREES THAT IF CUSTOMER SUBMITS A FRAUDULENT WARRANTY CLAIM ON THIS LIMITED WARRANTY, CUSTOMER HEREBY WAIVES ITS RIGHT TO ALL FURTHER WARRANTY CLAIMS (FRAUDULENT AND NON-FRAUDULENT) OR REMEDIES FOR THE BREACH OF THIS LIMITED WARRANTY OR ANY OTHER IMPLIED WARRANTIES WHICH OTHERWISE MAY EXIST.

WARRANTY DISCLAIMERS

- 1. TESCO DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTIES THAT EXTEND BEYOND THOSE DESCRIBED HERE.
- 2. NO AGENT OR REPRESENTATIVE OF TESCO, NOR OF ANY RETAILER, LESSOR, OR INSTALLER OF THE SYSTEM, HAS ANY EXPRESS OR IMPLIED AUTHORITY TO MAKE ANY REPRESENTATION, PROMISE, GUARANTEE, OR WARRANTY NOT STATED HERE.
- 3. THIS LIMITED WARRANTY SETS FORTH ALL OBLIGATIONS OF TESCO IN THE EVENT DEFECTS APPEAR IN THE SYSTEM AND A SURGE PASSES THROUGH A FAILED SURGE PROTECTOR OR SURGE ARRESTER. THE REMEDIES STATED HERE ARE THE SOLE AND EXCLUSIVE REMEDIES FOR ANY DAMAGE, LOSS, OR WARRANTY CLAIM UNLESS A HOME OWNERS INSURANCE POLICY CLAIM IS FILED IN LIEU OF THE TESCO WARRANTY.
- 4. TESCO SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES OR ANY ECONOMIC LOSS.
- 5. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

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