**Note:** All part numbers are RoHS Compliant.

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Revised 6-07

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Dimensions are shown for reference purposes only. Specifications subject to change.

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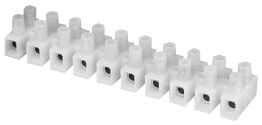
**Note:** All part numbers are RoHS Compliant.

## Europa Selector Chart

# Panel Mounted Modular Blocks



| Series | TSB230 | TSB230...HT | TSB500 | TSB500...HT | TSB500SK | 500Si | 503Si |
|---|---|---|---|---|---|---|---|
| **Pitch (mm)** | 8mm | 8mm | 10mm | 10mm | 10mm | 10, 12mm | 10mm |
| **(in.)** | .315” | .315” | .394” | .394” | .394” | .394”, .472” | .394” |
| **Circuits** | 1-12 | 1-12 | 1-12 | 1-12 | 1-12 | 1 | 1-5 |
| **Max. Current** | | | | | | | |
| **Wire protector** | 30A | 30A | 30A | 30A | 30A | — | 10A |
| **Tunnel connection** | 30A | — | 40A | — | 30A | 10A | 10A |
| **Max. Voltage** | 250V | 250V | 250V | 250V | 600V | 250V | 250V |
| **Wire Range (AWG)** | | | | | | | |
| **Wire protector** | 12-26 | 12-26 | 10-24 | 12-24 | 12-24 | — | 12-22 |
| **Tunnel connection** | 12-24 | — | 10-22 | — | 10-22 | 12-22 | 12-22 |
| **Flammability** | UL94V-2 | UL94V-0 | UL94V-2 | UL94V-0 | UL94V-2 | UL94V-2 | UL94V-2 |
| **Max. Temp.** | 100˚ C | 150˚ C | 100˚ C | 150˚ C | 100˚ C | 100˚ C | 100˚ C |
| **Page** | 218, 219 | 220 | 221 | 223 | 224 | 234 | 225 |



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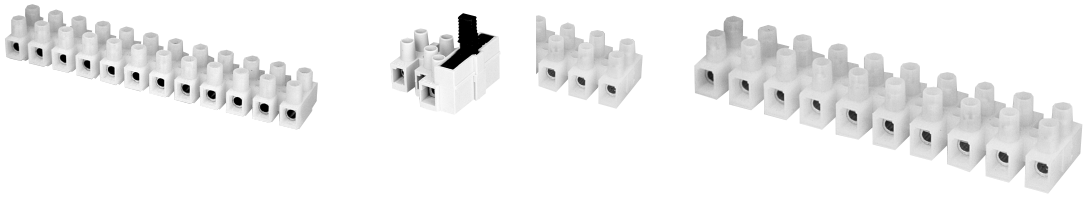
**Note:** All part numbers are RoHS Compliant.

## Europa Selector Chart (Continued)



### Panel Mounted Modular Blocks



| Series | TSB1000 | TSB1000...HT | 1003Si | TSB1500 | TSB2000 | TSB2000...HT | TSB2000...US |
|---|---|---|---|---|---|---|---|
| **Pitch (mm)** | 12mm | 12mm | 7/12mm | 13.5mm | 14.5mm | 14.5mm | 14.5mm |
| **(in.)** | .472" | .472" | .275-.472" | .532" | .571" | .571" | .571" |
| **Circuits** | 1-12 | 1-12 | 1-5 | 1-12 | 1-12 | 1-12 | 1-12 |
| **Max. Current** | | | | | | | |
| **Wire protector** | 40A | 40A | 16A | 40A | 65A | 65A | 65A |
| **Tunnel connection** | 40A | — | 16A | 40A | 65A | 65A | 65A |
| **Max. Voltage** | 250V | 250V | 250V | 300V | 300V | 300V | 600V |
| **Wire Range (AWG)** | | | | | | | |
| **Wire protector** | 10-22 | 10-24 | 10-24 | 8-18 | 6-14 | 6-14 | 6-14 |
| **Tunnel connection** | 8-22 | — | 8-22 | 8-16 | 6-14 | 6-14 | 6-14 |
| **Flammability** | UL94V-2 | UL94V-0 | UL94V-2 | UL94V-2 | UL94V-2 | UL94V-0 | UL94V-2 |
| **Max. Temp.** | 100˚ C | 150˚ C | 100˚ C | 100˚ C | 100˚ C | 150˚ C | 100˚ C |
| **Page** | 226, 227 | 228 | 229 | 230 | 231 | 232 | 233 |



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**Note:** All part numbers are RoHS Compliant.

## Catalog Numbering Code

### Europa Blocks

**TSB** **230** **02** **Suffix** **Suffix**

**Series**
Europa Blocks

**Pitch**
**230** = 8mm
**500** = 10mm
**500SK** = 10mm, Elongated
**1000** = 12mm
**1500** = 13.5mm
**2000** = 14.5mm

**No. of Circuits**
**01** through **12**

**Connection**
**(blank)** = Tunnel Connection (w/o Wire Protector)
**DS** = Wire Protector
**31** = Tunnel Connection for Series TSB500
**31DS** = Wire Protector for Series TSB500

**Options**
**(blank)** = Standard (105°)
**HT** = High Temperature (150°)
**US** = 600V

### Fused Europa Blocks

**503Si** **2** **Suffix**

**Pitch**
**503Si** = 10mm
**1003Si** = 12mm

**Number of Circuits**
**1** through **5**

**Options**
**(blank)** = Tunnel Connection (w/o Wire Protector)
**DS** = Wire Protector
**E** = Grounded
**EDS** = Grounded Wire Protector

Note: Some catalog number combinations are not valid. Check appropriate catalog pages before ordering.



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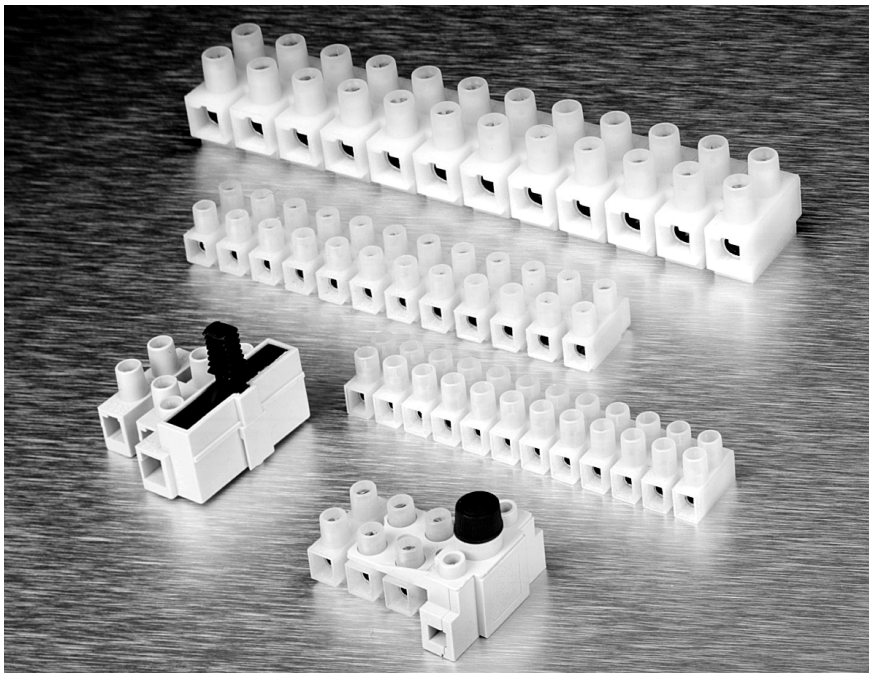
**Note:** All part numbers are RoHS Compliant.



# Europa Blocks

## Product Facts

- **Modular design — cut into smaller sections without altering electrical properties or order product molded to length. Mounting holes between every circuit.**
- **Tubular contacts — connect stripped, unterminated solid or stranded wire directly to each contact — no wire lugs needed.**
- **High voltage and current ratings — rated up to 600 volts and up to 65 amps depending on model and wire size used.**
- **Broad Wire Range — use wire from #6 to #26 AWG depending on model selected.**
- **Wire protectors — all models available with wire protectors to virtually eliminate twisting and breakage of stranded wire during connection.**
- **High circuit density — five models provide from 21 to 38 circuits per foot.**
- **"Dead-front" construction — both screws and tubular contacts are recessed in housing for safety and to help prevent short circuits.**
- **Captive screws — zinc with chromate plated steel screws are captive in tin plated brass contacts. They are supplied "backed-out" and ready to wire.**
- **Flammability rating of UL94V-2 is standard. High Temperature versions with UL94V-0 are available.**
- **Wire stop available on some versions.**



Tyco Electronics Corporation offers the most extensive line of Europa products in five pitches:

- 8mm [.315]
- 10mm [.394]
- 12mm [.472]
- 13.5mm [.531]
- 14.5mm [.571]

Two connection styles are available. The Wire Protector version supplies a plate to shield the wire from being cut by the screw. The Tunnel connection is the same design, but without the shielding plate – it is ideal for solid wire or where the most economical price is required.

## Applications include:

- Motor Controls
- Power Supplies
- Telecom
- Valve Actuators
- Spa Controllers
- Lighting



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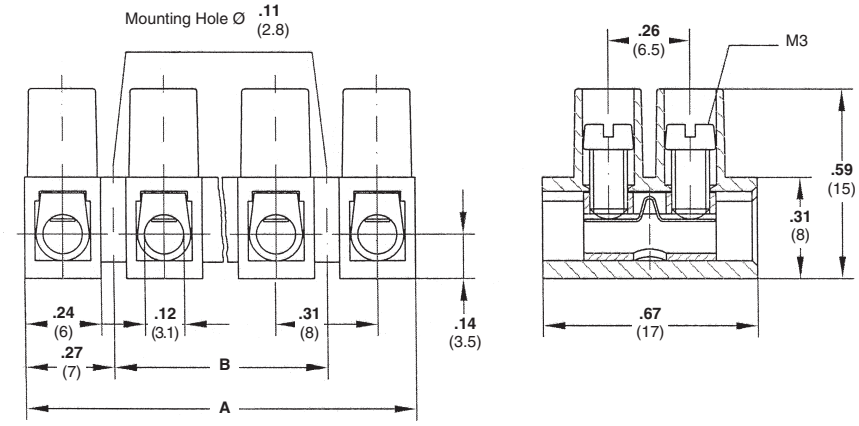
**Note:** All part numbers are RoHS Compliant.

# 8mm [.315] Pitch, 30A with Wire Protector—Series TSB230




## Material & Finish

**Housing Material**—Polyamide 6
**Flammability**—UL94V-2
**Color**—natural (off white)
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless steel

## Mechanical Properties

**Pitch (terminal spacing)**—8mm [.315"]
**Wire Strip Length**—5mm [0.20"]
**Min. Wire Pull-Out Force**—75lbs.
**Recommended Tightening Torque**—5in.- lbs.
**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

## Electrical Properties

**Maximum Current**—30A
**Operating Voltage**—250V
**Wire Range**—12-26 AWG
**Dielectric Withstand**—3000V

## Environmental Properties

**Continuous Working Temperature**—-35˚C to +100˚C [-31˚F to +212˚F]

| No. of Positions | Dimensions | | Wire Protector | |
|---|---|---|---|---|
| | A | B | Part Number | Catalog Number |
| 1 | **6** (.24) | — | 1776293-1 | TSB230 01DS |
| 2 | **14** (.55) | — | 1776293-2 | TSB230 02DS |
| 3 | **22** (.87) | **8** (.31) | 1776293-3 | TSB230 03DS |
| 4 | **30** (1.18) | **16** (.63) | 1776293-4 | TSB230 04DS |
| 5 | **38** (1.50) | **24** (.94) | 1776293-5 | TSB230 05DS |
| 6 | **46** (1.81) | **32** (1.26) | 1776293-6 | TSB230 06DS |
| 7 | **54** (2.13) | **40** (1.57) | 1776293-7 | TSB230 07DS |
| 8 | **62** (2.44) | **48** (1.89) | 1776293-8 | TSB230 08DS |
| 9 | **70** (2.76) | **56** (2.20) | 1776293-9 | TSB230 09DS |
| 10 | **78** (3.07) | **64** (2.52) | 1-1776293-0 | TSB230 10DS |
| 11 | **86** (3.39) | **72** (2.83) | 1-1776293-1 | TSB230 11DS |
| 12 | **94** (3.70) | **80** (3.15) | 1-1776293-2 | TSB230 12DS |

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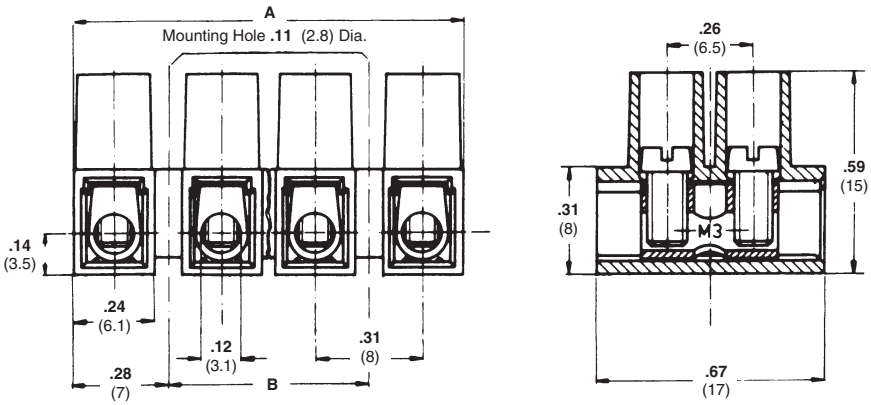
**Note:** All part numbers are RoHS Compliant.



# 8mm [.315] Pitch, 30A, with Tunnel Connection—Series TSB230




### Material & Finish

**Housing Material**—Polyamide 6
**Flammability**—UL94V-2
**Color**—natural (off white)
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3
**Screw Plating**—Zinc with chromate

### Mechanical Properties

**Pitch (terminal spacing)**—8mm [.315]
**Wire Strip Length**—5mm [0.20"]
**Min. Wire Pull-Out Force**—75lbs.
**Recommended Tightening Torque**—5in.- lbs.
**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

### Electrical Properties

**Maximum Current**—30A
**Operating Voltage**—250V
**Wire Range**—12-24 AWG
**Dielectric Withstand**—3000V

### Environmental Properties

**Continuous Working Temperature**—-35˚C to +100˚C [-31˚F to +212˚F]

| No. of Positions | Dimensions | | Tunnel Connection | |
|---|---|---|---|---|
| | A | B | Part Number | Catalog Number |
| 1 | **6** (.24) | — | 1776294-1 | TSB230 01 |
| 2 | **14** (.55) | — | 1776294-2 | TSB230 02 |
| 3 | **22** (.87) | **8** (.31) | 1776294-3 | TSB230 03 |
| 4 | **30** (1.18) | **16** (.63) | 1776294-4 | TSB230 04 |
| 5 | **38** (1.50) | **24** (.94) | 1776294-5 | TSB230 05 |
| 6 | **46** (1.81) | **32** (1.26) | 1776294-6 | TSB230 06 |
| 7 | **54** (2.13) | **40** (1.57) | 1776294-7 | TSB230 07 |
| 8 | **62** (2.44) | **48** (1.89) | 1776294-8 | TSB230 08 |
| 9 | **70** (2.76) | **56** (2.20) | 1776294-9 | TSB230 09 |
| 10 | **78** (3.07) | **64** (2.52) | 1-1776294-0 | TSB230 10 |
| 11 | **86** (3.39) | **72** (2.83) | 1-1776294-1 | TSB230 11 |
| 12 | **94** (3.70) | **80** (3.15) | 1-1776294-2 | TSB230 12 |

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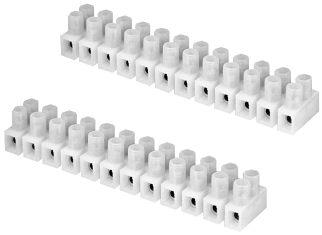
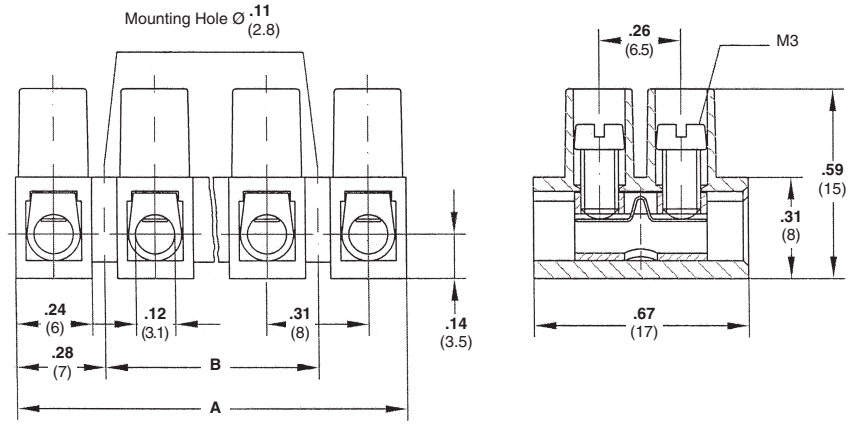
**Note:** All part numbers are RoHS Compliant.

# 8mm [.315] Pitch, 30A, High Temperature—Series TSB230…HT






## Material & Finish

**Housing Material**—Polyamide 6/6
**Flammability**—UL94V-0
**Housing Color**—Brown
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless steel

## Mechanical Properties

**Pitch (terminal spacing)**—8mm [.315]
**Wire Strip Length**—5mm [0.20"]
**Min. Wire Pull-Out Force**—75lbs.
**Recommended Tightening Torque**—5in.- lbs.
**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

## Electrical Properties

**Maximum Current**—30A
**Operating Voltage**—250V
**Wire Range**—12-26 AWG
**Dielectric Withstand**—3000V

## Environmental Properties

**Continuous Working Temperature**—-35˚C to +150˚C [-31˚F to +302˚F]

| No. of Positions | Dimensions | | Wire Protector | |
|---|---|---|---|---|
| | A | B | Part Number | Catalog Number |
| 1 | **6** (.24) | — | 1776295-1 | TSB230 01DS HT |
| 2 | **14** (.55) | — | 1776295-2 | TSB230 02DS HT |
| 3 | **22** (.87) | **8** (.31) | 1776295-3 | TSB230 03DS HT |
| 4 | **30** (1.18) | **16** (.63) | 1776295-4 | TSB230 04DS HT |
| 5 | **38** (1.50) | **24** (.94) | 1776295-5 | TSB230 05DS HT |
| 6 | **46** (1.81) | **32** (1.26) | 1776295-6 | TSB230 06DS HT |
| 7 | **54** (2.13) | **40** (1.57) | 1776295-7 | TSB230 07DS HT |
| 8 | **62** (2.44) | **48** (1.89) | 1776295-8 | TSB230 08DS HT |
| 9 | **70** (2.76) | **56** (2.20) | 1776295-9 | TSB230 09DS HT |
| 10 | **78** (3.07) | **64** (2.52) | 1-1776295-0 | TSB230 10DS HT |
| 11 | **86** (3.39) | **72** (2.83) | 1-1776295-1 | TSB230 11DS HT |
| 12 | **94** (3.70) | **80** (3.15) | 1-1776295-2 | TSB230 12DS HT |

**Note:** Minimum order quantities may apply.

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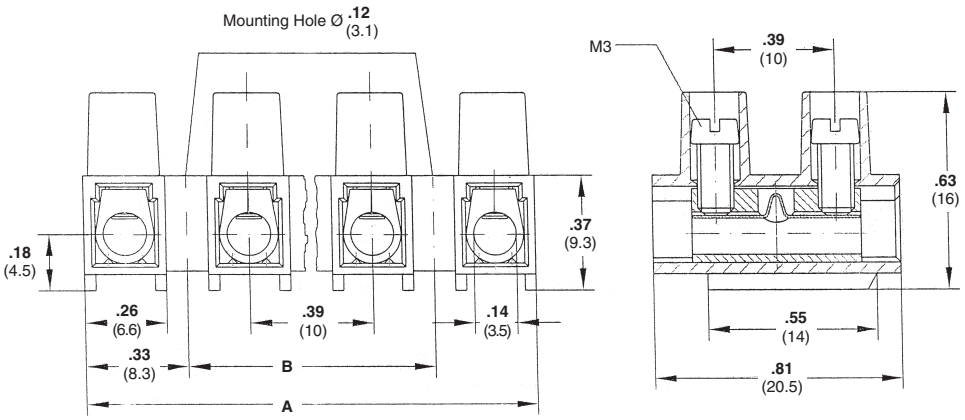
**Note:** All part numbers are RoHS Compliant.



# 10mm [.394] Pitch, 30A with Wire Protector—Series TSB500




## Material & Finish

**Housing Material**—Polyamide 6
**Flammability**—UL94V-2
**Color**—Natural (off white)
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless steel

## Mechanical Properties

**Pitch (terminal spacing)**—10mm [.394]
**Wire Strip Length**—5mm [0.20"]
**Min. Wire Pull-Out Force**—75lbs.
**Recommended Tightening Torque**—5 in.- lbs.
**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

## Electrical Properties

**UL Maximum Current**—30A; 10-22 AWG
**CSA Maximum Current**—25A; 12-24 AWG
**Operating Voltage**—250V
**Dielectric Withstand**—3500V

## Environmental Properties

**Continuous Working Temperature**—-35˚C to +100˚C [-31˚F to +212˚F]

| No. of Positions | Dimensions | | Wire Protector | |
|---|---|---|---|---|
| | A | B | Part Number | Catalog Number |
| 1 | **6.6** (.26) | — | 1776296-1 | TSB500 0131DS |
| 2 | **16.6** (.65) | — | 1776296-2 | TSB500 0231DS |
| 3 | **26.6** (1.05) | **10** (.39) | 1776296-3 | TSB500 0331DS |
| 4 | **36.6** (1.44) | **20** (.79) | 1776296-4 | TSB500 0431DS |
| 5 | **46.6** (1.83) | **30** (1.18) | 1776296-5 | TSB500 0531DS |
| 6 | **56.6** (2.23) | **40** (1.57) | 1776296-6 | TSB500 0631DS |
| 7 | **66.6** (2.62) | **50** (1.97) | 1776296-7 | TSB500 0731DS |
| 8 | **76.6** (3.02) | **60** (2.36) | 1776296-8 | TSB500 0831DS |
| 9 | **86.6** (3.41) | **70** (2.76) | 1776296-9 | TSB500 0931DS |
| 10 | **96.6** (3.80) | **80** (3.15) | 1-1776296-0 | TSB500 1031DS |
| 11 | **106.6** (4.20) | **90** (3.54) | 1-1776296-1 | TSB500 1131DS |
| 12 | **116.6** (4.59) | **100** (3.94) | 1-1776296-2 | TSB500 1231DS |

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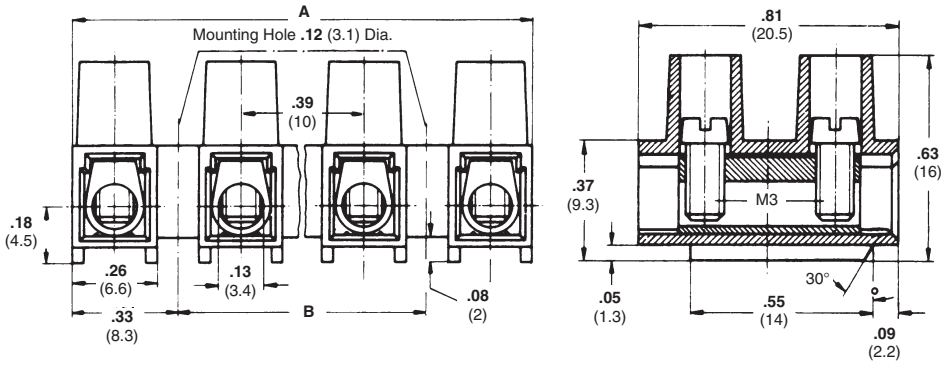
**Note:** All part numbers are RoHS Compliant.

# 10mm [.394] Pitch, 30A with Tunnel Connection—Series TSB500




## Material & Finish

**Housing Material**—Polyamide 6
**Flammability**—UL94V-2
**Color**—Natural (off white)
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3
**Screw Plating**—Zinc with chromate

## Mechanical Properties

**Pitch (terminal spacing)**—10mm [.394]
**Wire Strip Length**—5mm [0.20"]
**Min. Wire Pull-Out Force**—75lbs.
**Recommended Tightening Torque**—5 in.- lbs.
**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

## Electrical Properties

**Maximum Current**—30A
**Operating Voltage**—250V
**Wire Range**—10-22 AWG
**Dielectric Withstand**—3500V

## Environmental Properties

**Continuous Working Temperature**—-35˚C to +100˚C [-31˚F to +212˚F]

| No. of Positions | Dimensions | | Tunnel Connection | |
|---|---|---|---|---|
| | A | B | Part Number | Catalog Number |
| 1 | **6.6** (.26) | — | — | TSB500 0131 |
| 2 | **16.6** (.65) | — | 1776297-2 | TSB500 0231 |
| 3 | **26.6** (1.05) | **10** (.39) | 1776297-3 | TSB500 0331 |
| 4 | **36.6** (1.44) | **20** (.79) | 1776297-4 | TSB500 0431 |
| 5 | **46.6** (1.83) | **30** (1.18) | 1776297-5 | TSB500 0531 |
| 6 | **56.6** (2.23) | **40** (1.57) | 1776297-6 | TSB500 0631 |
| 7 | **66.6** (2.62) | **50** (1.97) | 1776297-7 | TSB500 0731 |
| 8 | **76.6** (3.02) | **60** (2.36) | 1776297-8 | TSB500 0831 |
| 9 | **86.6** (3.41) | **70** (2.76) | 1776297-9 | TSB500 0931 |
| 10 | **96.6** (3.80) | **80** (3.15) | 1-1776297-0 | TSB500 1031 |
| 11 | **106.6** (4.20) | **90** (3.54) | 1-1776297-1 | TSB500 1131 |
| 12 | **116.6** (4.59) | **100** (3.94) | 1-1776297-2 | TSB500 1231 |

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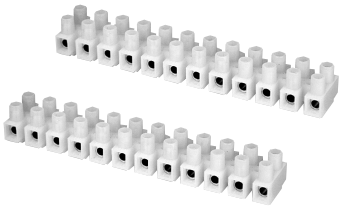
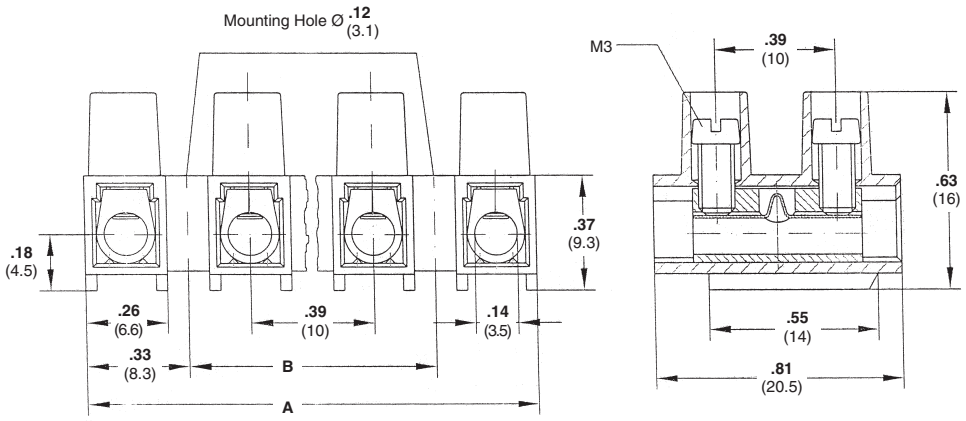
UK: 8706-080-208

**Note:** All part numbers are RoHS Compliant.



# 10mm [.394] Pitch, 30A High Temperature—Series TSB500…HT






## Material & Finish

**Housing Material**—Polyamide 6/6
**Flammability**—UL94V-0
**Housing Color**—Brown
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless steel

## Mechanical Properties

**Pitch (terminal spacing)**—10mm [.394]
**Wire Strip Length**—5mm [0.20"]
**Min. Wire Pull-Out Force**—75lbs.
**Recommended Tightening Torque**—5 in.- lbs.
**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

## Electrical Properties

**Maximum Current**—30A
**Operating Voltage**—250V
**Wire Range**—12-24 AWG
**Dielectric Withstand**—3500V

## Environmental Properties

**Continuous Working Temperature**—
-50˚C to +160˚C [-58˚F to +320˚F]

| No. of Positions | Dimensions | | Wire Protector | |
|---|---|---|---|---|
| | A | B | Part Number | Catalog Number |
| 1 | **6.6** (.26) | — | 1776298-1 | TSB500 0131DS HT |
| 2 | **16.6** (.65) | — | 1776298-2 | TSB500 0231DS HT |
| 3 | **26.6** (1.05) | **10** (.39) | 1776298-3 | TSB500 0331DS HT |
| 4 | **36.6** (1.44) | **20** (.79) | 1776298-4 | TSB500 0431DS HT |
| 5 | **46.6** (1.83) | **30** (1.18) | 1776298-5 | TSB500 0531DS HT |
| 6 | **56.6** (2.23) | **40** (1.57) | 1776298-6 | TSB500 0631DS HT |
| 7 | **66.6** (2.62) | **50** (1.97) | 1776298-7 | TSB500 0731DS HT |
| 8 | **76.6** (3.02) | **60** (2.36) | 1776298-8 | TSB500 0831DS HT |
| 9 | **86.6** (3.41) | **70** (2.76) | 1776298-9 | TSB500 0931DS HT |
| 10 | **96.6** (3.80) | **80** (3.15) | 1-1776298-0 | TSB500 1031DS HT |
| 11 | **106.6** (4.20) | **90** (3.54) | 1-1776298-1 | TSB500 1131DS HT |
| 12 | **116.6** (4.59) | **100** (3.94) | 1-1776298-2 | TSB500 1231DS HT |

Note: Minimum order quantities may apply.

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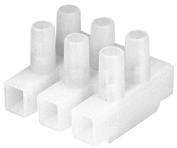
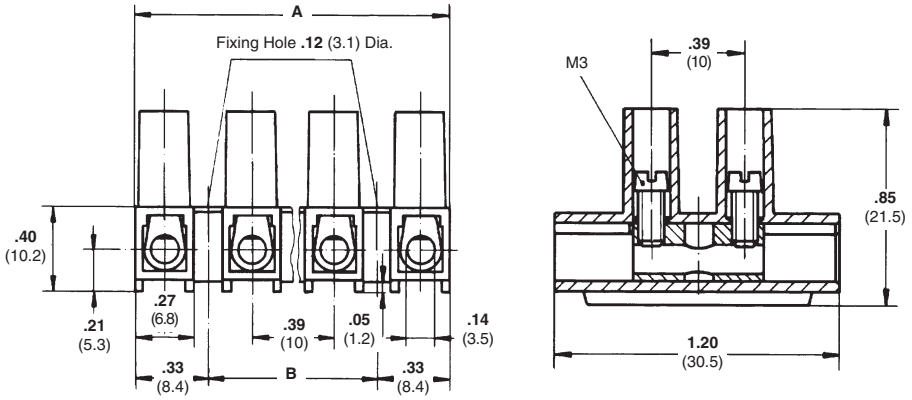
UK: 8706-080-208

**Note:** All part numbers are RoHS Compliant.

# 10mm [.394] Pitch, 30A Elongated Plastic—Series TSB500SK






**Tunnel Connection Version shown**

## Material & Finish

**Housing Material**—Polyamide 6
**Flammability**—UL94V-2
**Color**—natural (off white)
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless steel

## Mechanical Properties

**Pitch (terminal spacing)**—10mm [.394"]
**Wire Strip Length**—5mm [0.20"]
**Min. Wire Pull-Out Force**—5 lbs.
**Recommended Tightening Torque**—5 in.- lbs.
**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

## Electrical Properties

**Maximum Current**—30A (UL), 25A (CSA)
**Operating Voltage**—600V
**Wire Range**—
Wire Protector–12-24 AWG
Tunnel Connection–10-22 AWG
**Dielectric Withstand**—3500V

## Environmental Properties

**Continuous Working Temperature**—
-35˚C to +100˚C [-31˚F to +212˚F]

| No. of Positions | Dimensions | | Tunnel Connection | | Wire Protector | |
|---|---|---|---|---|---|---|
| | A | B | Part Number | Catalog Number | Part Number | Catalog Number |
| 1 | **6.6** (.26) | — | 1776299-1 | TSB500 SK01 | 1776300-1 | TSB500 SK01MDS |
| 2 | **16.6** (.65) | — | 1776299-2 | TSB500 SK02 | 1776300-2 | TSB500 SK02MDS |
| 3 | **26.6** (1.05) | **10** (.39) | 1776299-3 | TSB500 SK03 | 1776300-3 | TSB500 SK03MDS |
| 4 | **36.6** (1.44) | **20** (.79) | 1776299-4 | TSB500 SK04 | 1776300-4 | TSB500 SK04MDS |
| 5 | **46.6** (1.83) | **30** (1.18) | 1776299-5 | TSB500 SK05 | 1776300-5 | TSB500 SK05MDS |
| 6 | **56.6** (2.23) | **40** (1.57) | 1776299-6 | TSB500 SK06 | 1776300-6 | TSB500 SK06MDS |
| 7 | **66.6** (2.62) | **50** (1.97) | 1776299-7 | TSB500 SK07 | 1776300-7 | TSB500 SK07MDS |
| 8 | **76.6** (3.02) | **60** (2.36) | 1776299-8 | TSB500 SK08 | 1776300-8 | TSB500 SK08MDS |
| 9 | **86.6** (3.41) | **70** (2.76) | 1776299-9 | TSB500 SK09 | 1776300-9 | TSB500 SK09MDS |
| 10 | **96.6** (3.80) | **80** (3.15) | 1-1776299-0 | TSB500 SK10 | 1-1776300-0 | TSB500 SK10MDS |
| 11 | **106.6** (4.20) | **90** (3.54) | 1-1776299-1 | TSB500 SK11 | 1-1776300-1 | TSB500 SK11MDS |
| 12 | **116.6** (4.59) | **100** (3.94) | 1-1776299-2 | TSB500 SK12 | 1-1776300-2 | TSB500 SK12MDS |

**Note:** Add suffix HT for High Temperature version. Minimum order quantities may apply.
Flammabilty: UL94V-0. Continuous working temperature: 150°C.

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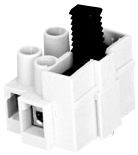
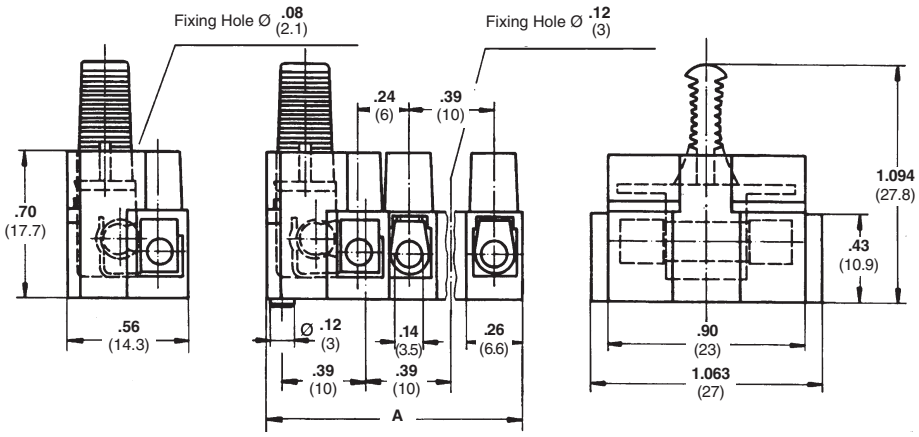
**Note:** All part numbers are RoHS Compliant.



# 10mm [.394] Pitch, Fused Terminal Blocks—Series 503Si



**500Si/1 (1 Circuit)** **503Si (2-5 Circuits)**




## Material & Finish

**Housing Material**—Polyamide 6/6
**Color**—Gray, handle is black
**Tubular Contact**—Brass, tin plated
**Screw**—Steel
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless steel
**Contacts for Fuses**—Stainless steel spring
**Tunnel Connection**—Without wire protector

## Mechanical Properties

**Pitch (terminal spacing)**—10mm [.394"]
**Wire Strip Length**—7mm [.276"]

## Electrical Properties

**Maximum Current**—
To VDE 820–Fuse Holder 10A
To VDE 0100–Terminal Blocks 26A
To VDE 0700/0711–Terminal Blocks 10A
**Operating Voltage**—
Fuse Holder–250V
Terminal Blocks–400V
**Wire Range**—
Wire Protector–12-22 AWG
Tunnel Connection–12-22 AWG

## Environmental Properties

**Continuous Working Temperature**—
-35˚C to +100˚C [-31˚F to +212˚F]

Series 503Si & 503Si…DS version of TSB500 Series with an integrated fuse holder for 5 x 20mm [.197 x .787] fuses. Protection against unintentional touch of live parts to VBG4 and VDE 0106, part 100 and VDE 0470, part 1.

Series 503Si…E & 503Si…EDS include a ground connection.

| No. of Positions | Dim. A | Tunnel Connection | | Wire Protector | | Tunnel Connection Grounded | | Wire Protector Grounded | |
|---|---|---|---|---|---|---|---|---|---|
| | | Part Number | Catalog Number | Part Number | Catalog Number | Part Number | Catalog Number | Part Number | Catalog Number |
| 1 | **14.3** (.56) | 1776301-1 | 503Si 1 | 1776301-6 | 503Si 1DS | — | — | — | — |
| 2 | **20** (.79) | 1776301-2 | 503Si 2 | 1776301-7 | 503Si 2DS | — | — | — | — |
| 3 | **30** (1.18) | — | 503Si 3 | 1776301-8 | 503Si 3DS | — | 503Si 3E | 2-1776301-3 | 503Si 3EDS |
| 4 | **40** (1.58) | — | 503Si 4 | 1776301-9 | 503Si 4DS | 1-1776301-4 | 503Si 4E | — | 503Si 4EDS |
| 5 | **50** (1.97) | 1776301-5 | 503Si 5 | 1-1776301-0 | 503Si 5DS | — | 503Si 5E | — | 503Si 5EDS |



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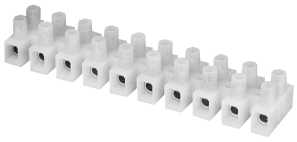
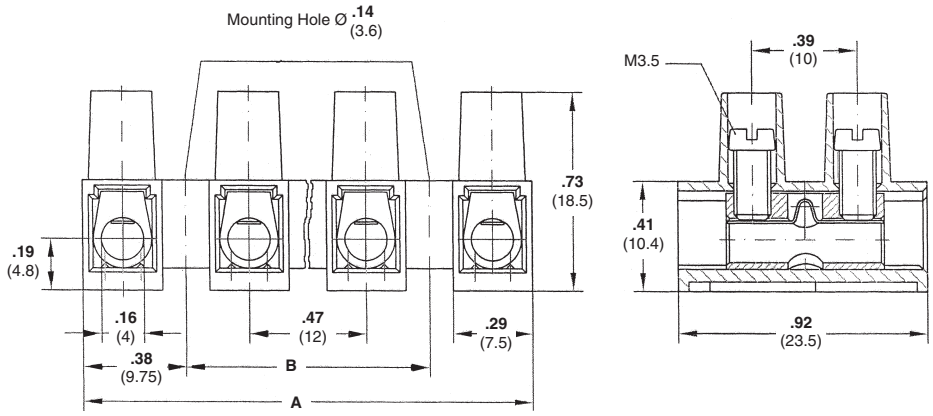
**Note:** All part numbers are RoHS Compliant.

# 12mm [.472] Pitch, 40A with Wire Protector—Series TSB1000






## Material & Finish

**Housing Material**—Polyamide 6
**Flammability**—UL94V-2
**Color**—Natural (off white)
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3.5
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless steel

## Mechanical Properties

**Pitch (terminal spacing)**—12mm [.472"]
**Wire Strip Length**—7mm [.28"]
**Min. Wire Pull-Out Force**—125 lbs.
**Recommended Tightening Torque**—10 in.- lbs.
**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

## Electrical Properties

**Maximum Current**—40A
**Operating Voltage**—250V
**Wire Range**—10-22 AWG
**Dielectric Withstand**—4500V

## Environmental Properties

**Continuous Working Temperature**—-35˚C to +100˚C [-31˚F to +212˚F]

| No. of Positions | Dimensions | | Wire Protector | |
|---|---|---|---|---|
| | A | B | Part Number | Catalog Number |
| 1 | **7.5** (.30) | — | 1776302-1 | TSB1000 01DS |
| 2 | **19.5** (.77) | — | 1776302-2 | TSB1000 02DS |
| 3 | **31.5** (1.24) | **12** (.47) | 1776302-3 | TSB1000 03DS |
| 4 | **43.5** (1.71) | **24** (.95) | 1776302-4 | TSB1000 04DS |
| 5 | **55.5** (2.19) | **36** (1.42) | 1776302-5 | TSB1000 05DS |
| 6 | **67.5** (2.66) | **48** (1.89) | 1776302-6 | TSB1000 06DS |
| 7 | **79.5** (3.13) | **60** (2.36) | 1776302-7 | TSB1000 07DS |
| 8 | **91.5** (3.60) | **72** (2.83) | 1776302-8 | TSB1000 08DS |
| 9 | **103.5** (4.07) | **84** (3.31) | 1776302-9 | TSB1000 09DS |
| 10 | **115.5** (4.55) | **96** (3.78) | 1-1776302-0 | TSB1000 10DS |
| 11 | **127.5** (5.02) | **108** (4.25) | 1-1776302-1 | TSB1000 11DS |
| 12 | **139.5** (5.49) | **120** (4.72) | 1-1776302-2 | TSB1000 12DS |

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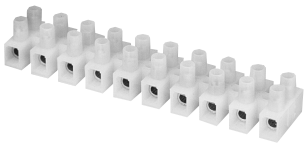
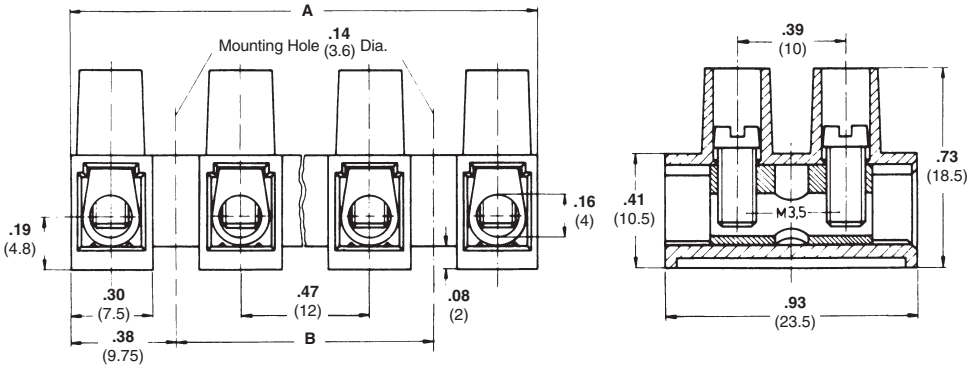
**Note:** All part numbers are RoHS Compliant.



# 12mm [.472] Pitch, 50A with Tunnel Connection—Series TSB1000






### Material & Finish

**Housing Material**—Polyamide 6
**Flammability**—UL94V-2
**Color**—Natural (off white)
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3.5
**Screw Plating**—Zinc with chromate

### Mechanical Properties

**Pitch (terminal spacing)**—12mm [.472"]
**Wire Strip Length**—7mm [.28"]
**Min. Wire Pull-Out Force**—125 lbs.
**Recommended Tightening Torque**—10 in.- lbs.
**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

### Electrical Properties

**Maximum Current**—50A
**Operating Voltage**—250V
**Wire Range**—8-22 AWG
**Dielectric Withstand**—4500V

### Environmental Properties

**Continuous Working Temperature**—-35˚C to +100˚C [-31˚F to +212˚F]

| No. of Positions | Dimensions | | Tunnel Connection | |
|---|---|---|---|---|
| | A | B | Part Number | Catalog Number |
| 1 | **7.5** (.30) | — | 1776303-1 | TSB1000 01 |
| 2 | **19.5** (.77) | — | 1776303-2 | TSB1000 02 |
| 3 | **31.5** (1.24) | **12** (.47) | 1776303-3 | TSB1000 03 |
| 4 | **43.5** (1.71) | **24** (.95) | 1776303-4 | TSB1000 04 |
| 5 | **55.5** (2.19) | **36** (1.42) | 1776303-5 | TSB1000 05 |
| 6 | **67.5** (2.66) | **48** (1.89) | 1776303-6 | TSB1000 06 |
| 7 | **79.5** (3.13) | **60** (2.36) | 1776303-7 | TSB1000 07 |
| 8 | **91.5** (3.60) | **72** (2.84) | 1776303-8 | TSB1000 08 |
| 9 | **103.5** (4.07) | **84** (3.31) | 1776303-9 | TSB1000 09 |
| 10 | **115.5** (4.55) | **96** (3.78) | 1-1776303-0 | TSB1000 10 |
| 11 | **127.5** (5.02) | **108** (4.25) | 1-1776303-1 | TSB1000 11 |
| 12 | **139.5** (5.49) | **120** (4.72) | 1-1776303-2 | TSB1000 12 |

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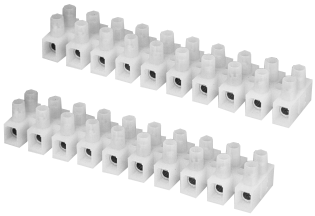
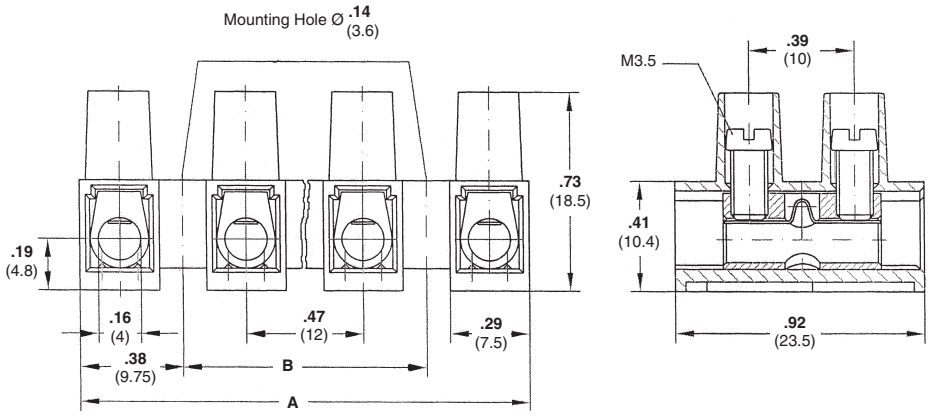
**Note:** All part numbers are RoHS Compliant.

# 12mm [.472] Pitch, 40A High Temperature—Series TSB1000...HT






## Material & Finish

**Housing Material**—Polyamide 6/6
**Flammability**—UL94V-0
**Housing Color**—Brown
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3.5
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless steel

## Mechanical Properties

**Pitch (terminal spacing)**—12mm [.472"]
**Wire Strip Length**—7mm [.28"]
**Min. Wire Pull-Out Force**—125 lbs.
**Recommended Tightening Torque**—10 in.- lbs.
**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

## Electrical Properties

**Maximum Current**—40A
**Operating Voltage**—250V
**Wire Range**—10-24 AWG
**Dielectric Withstand**—4500V

## Environmental Properties

**Continuous Working Temperature**—-50°C to +160°C [-58°F to +320°F]

| No. of Positions | Dimensions | | Wire Protector | |
|---|---|---|---|---|
| | A | B | Part Number | Catalog Number |
| 1 | **7.5** (.30) | — | — | TSB1000 01DS HT |
| 2 | **19.5** (.77) | — | 1776304-2 | TSB1000 02DS HT |
| 3 | **31.5** (1.24) | **12** (.47) | 1776304-3 | TSB1000 03DS HT |
| 4 | **43.5** (1.71) | **24** (.95) | 1776304-4 | TSB1000 04DS HT |
| 5 | **55.5** (2.19) | **36** (1.42) | 1776304-5 | TSB1000 05DS HT |
| 6 | **67.5** (2.66) | **48** (1.89) | 1776304-6 | TSB1000 06DS HT |
| 7 | **79.5** (3.13) | **60** (2.36) | 1776304-7 | TSB1000 07DS HT |
| 8 | **91.5** (3.60) | **72** (2.84) | 1776304-8 | TSB1000 08DS HT |
| 9 | **103.5** (4.07) | **84** (3.31) | 1776304-9 | TSB1000 09DS HT |
| 10 | **115.5** (4.55) | **96** (3.78) | 1-1776304-0 | TSB1000 10DS HT |
| 11 | **127.5** (5.02) | **108** (4.25) | 1-1776304-1 | TSB1000 11DS HT |
| 12 | **139.5** (5.49) | **120** (4.72) | 1-1776304-2 | TSB1000 12DS HT |

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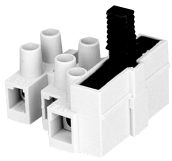
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

**Note:** All part numbers are RoHS Compliant.



# 12mm [.472] Pitch, Fused Terminal Blocks—Series 1003Si



### Material & Finish

**Housing Material**—Polyamide 6/6
**Color**—Gray, handle is black
**Tubular Contact**—Brass, tin plated
**Screw**—Steel
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless steel
**Contacts for Fuses**—Stainless steel screw
**Tunnel Connection**—Without wire protector

### Mechanical Properties

**Pitch (terminal spacing)**—12mm [.472"]
**Wire Strip Length**—7.5mm [.295"]

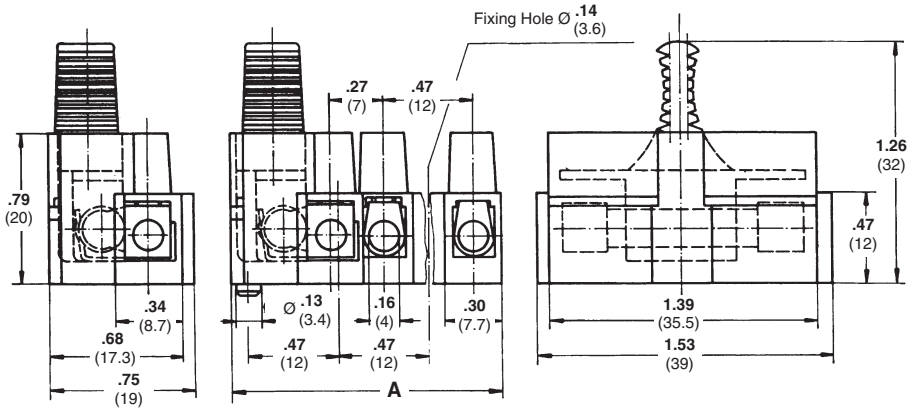
### Electrical Properties

**Maximum Current**—
To VDE 0820—Fuse Holder 16A
To VDE 0100—Terminal Blocks 34A
To VDE 0700/0711—Terminal Blocks 16A
**Operating Voltage**—
Fuse Holder—250V
Terminal Blocks—400V
**Wire Range**—
Wire Protector—up to 10mm² (10-24 AWG)
Tunnel Connection—up to 4mm² (8-22 AWG)

### Environmental Properties

**Continuous Working Temperature**—
-35°C to +100°C [-31°F to +212°F]

**1003Si/1 (1 Circuit)** **1003Si (2-5 Circuits)**




Series 1003Si & 1003Si...DS version of TSB1000 Series with an integrated fuse holder for 1/4" x 1"(6.3 x 25mm) or 1/4" x 1 1/4" (6.3mm x 32mm). Protection against unintended touch of live parts to VBG4.

Series 1003Si...E & 1003Si...EDS include a ground connection.

| No. of Positions | Dim. A | Tunnel Connection | | Wire Protector | | Tunnel Connection Grounded | | Wire Protector Grounded | |
|---|---|---|---|---|---|---|---|---|---|
| | | Part Number | Catalog Number | Part Number | Catalog Number | Part Number | Catalog Number | Part Number | Catalog Number |
| 1 | **18.7** (.74) | 1-1776309-1 | 1003Si 1 | 1776309-1 | 1003Si 1DS | — | — | — | — |
| 2 | **24** (0.95) | 1-1776309-2 | 1003Si 2 | 1776309-2 | 1003Si 2DS | — | — | — | — |
| 3 | **36** (1.42) | 1-1776309-3 | 1003Si 3 | — | 1003Si 3DS | 1776309-3 | 1003Si 3E | 1776309-4 | 1003Si 3EDS |
| 4 | **48** (1.89) | 1-1776309-4 | 1003Si 4 | — | 1003Si 4DS | — | 1003Si 4E | — | 1003Si 4EDS |
| 5 | **60** (2.36) | 1-1776309-5 | 1003Si 5 | — | 1003Si 5DS | — | 1003Si 5E | — | 1003Si 5EDS |



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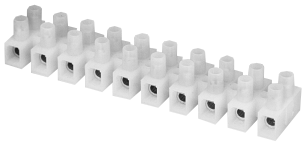
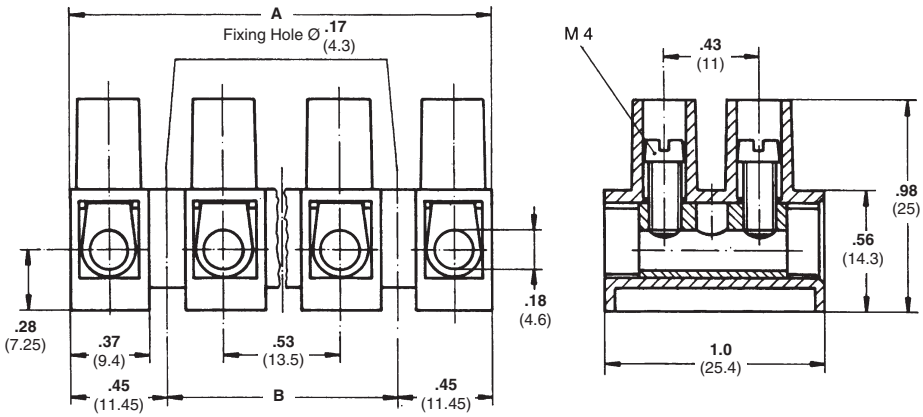
UK: 8706-080-208

**Note:** All part numbers are RoHS Compliant.

# 13.5mm [.531] Pitch, 40A—Series TSB1500






**Tunnel Connection Version shown**

## Material & Finish

**Housing Material**—Polyamide 6
**Flammability**—UL94V-2
**Color**—Natural (off white)
**Tubular Contact**—Brass, tin plated
**Screw**—Steel
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless steel
**Tunnel Connection**—Without wire protector

## Mechanical Properties

**Pitch (terminal spacing)**—13.5mm [.531"]
**Wire Strip Length**—8mm [.315"]
**Recommended Tightening Torque**—10 in.-lbs.
**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

## Electrical Properties

**Maximum Current**—40A (UR); 55A (CSA)
**Operating Voltage**—300V
**Wire Range**—
Wire Protector—8-18 AWG
Tunnel Connection—8-16 AWG

## Environmental Properties

**Continuous Working Temperature**—
-35°C to +100°C [-31°F to +212°F]

| No. of Positions | Dimensions | | Tunnel Connection | | Wire Protector | |
|---|---|---|---|---|---|---|
| | A | B | Part Number | Catalog Number | Part Number | Catalog Number |
| 1 | **9.4** (.37) | — | 1776310-1 | TSB1500 01 | 1776311-1 | TSB1500 01DS |
| 2 | **22.9** (.90) | — | 1776310-2 | TSB1500 02 | 1776311-2 | TSB1500 02DS |
| 3 | **36.4** (1.43) | **13.5** (.53) | 1776310-3 | TSB1500 03 | 1776311-3 | TSB1500 03DS |
| 4 | **49.9** (1.96) | **27.0** (1.06) | 1776310-4 | TSB1500 04 | 1776311-4 | TSB1500 04DS |
| 5 | **63.4** (2.49) | **40.5** (1.59) | 1776310-5 | TSB1500 05 | 1776311-5 | TSB1500 05DS |
| 6 | **76.9** (3.03) | **54.0** (2.12) | 1776310-6 | TSB1500 06 | 1776311-6 | TSB1500 06DS |
| 7 | **90.4** (3.55) | **67.5** (2.65) | 1776310-7 | TSB1500 07 | 1776311-7 | TSB1500 07DS |
| 8 | **103.9** (4.09) | **81.0** (3.19) | 1776310-8 | TSB1500 08 | 1776311-8 | TSB1500 08DS |
| 9 | **117.4** (4.62) | **94.5** (3.72) | 1776310-9 | TSB1500 09 | 1776311-9 | TSB1500 09DS |
| 10 | **130.9** (5.15) | **108.0** (4.25) | 1-1776310-0 | TSB1500 10 | 1-1776311-0 | TSB1500 10DS |
| 11 | **144.4** (5.68) | **121.5** (4.78) | 1-1776310-1 | TSB1500 11 | 1-1776311-1 | TSB1500 11DS |
| 12 | **157.9** (6.21) | **135.0** (5.31) | 1-1776310-2 | TSB1500 12 | 1-1776311-2 | TSB1500 12DS |

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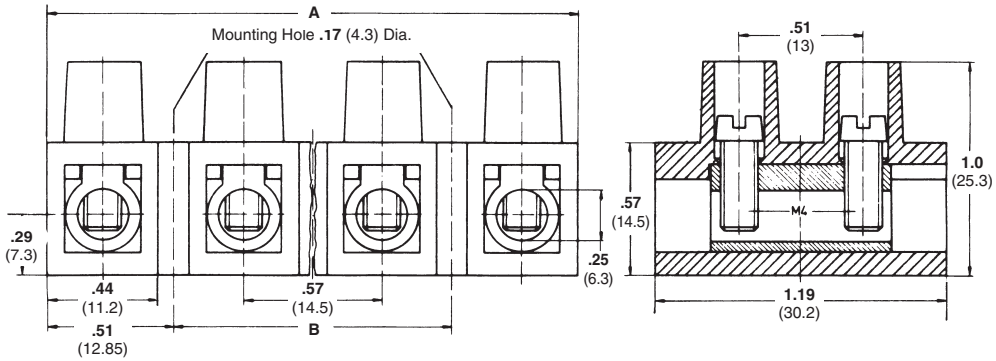
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

**Note:** All part numbers are RoHS Compliant.



# 14.5mm [.571] Pitch, 65A—Series TSB2000




**Tunnel Connection Version shown**

## Material & Finish

**Housing Material**—Polyamide 6
**Flammability**—UL94V-2
**Color**—Natural (off white)
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3.5
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless steel
**Tunnel Connection**—Without wire protector

## Mechanical Properties

**Pitch (terminal spacing)**—14.5mm [.571"]
**Wire Strip Length**—9mm [.35"]
**Min. Wire Pull-Out Force**—150lbs.
**Recommended Tightening Torque**—12 in.-lbs.
**Recommended Screwdrivers**—Stanley 1008, Sears Craftsman 41436, Xcelite R3164

## Electrical Properties

**Maximum Current**—65A (UR), 70A (CSA)
**Operating Voltage**—300V
**Wire Range**—6-14 AWG (UR), 6-22 AWG (CSA)
**Dielectric Withstand**—6000V

## Environmental Properties

**Continuous Working Temperature**—-35°C to +100°C [-31°F to +212°F]

| No. of Positions | Dimensions | | Tunnel Connection | | Wire Protector | |
|---|---|---|---|---|---|---|
| | A | B | Part Number | Catalog Number | Part Number | Catalog Number |
| 1 | **11.2** (.44) | — | 1776312-1 | TSB2000 01 | 1776313-1 | TSB2000 01DS |
| 2 | **25.7** (1.01) | — | 1776312-2 | TSB2000 02 | 1776313-2 | TSB2000 02DS |
| 3 | **40.2** (1.58) | **14.5** (.57) | 1776312-3 | TSB2000 03 | 1776313-3 | TSB2000 03DS |
| 4 | **54.7** (2.15) | **29.0** (1.14) | 1776312-4 | TSB2000 04 | 1776313-4 | TSB2000 04DS |
| 5 | **69.2** (2.72) | **43.5** (1.71) | 1776312-5 | TSB2000 05 | 1776313-5 | TSB2000 05DS |
| 6 | **83.7** (3.30) | **58.0** (2.28) | 1776312-6 | TSB2000 06 | 1776313-6 | TSB2000 06DS |
| 7 | **98.2** (3.87) | **72.5** (2.85) | 1776312-7 | TSB2000 07 | 1776313-7 | TSB2000 07DS |
| 8 | **112.7** (4.44) | **87.0** (3.43) | 1776312-8 | TSB2000 08 | 1776313-8 | TSB2000 08DS |
| 9 | **127.2** (5.01) | **101.5** (4.00) | 1776312-9 | TSB2000 09 | 1776313-9 | TSB2000 09DS |
| 10 | **141.7** (5.58) | **116.0** (4.57) | 1-1776312-0 | TSB2000 10 | 1-1776313-0 | TSB2000 10DS |
| 11 | **156.2** (6.15) | **130.5** (5.14) | 1-1776312-1 | TSB2000 11 | 1-1776313-1 | TSB2000 11DS |
| 12 | **170.7** (6.72) | **145.0** (5.71) | 1-1776312-2 | TSB2000 12 | 1-1776313-2 | TSB2000 12DS |

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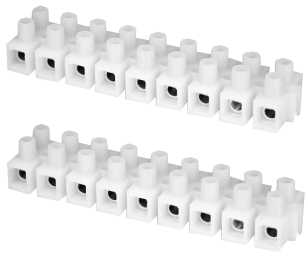
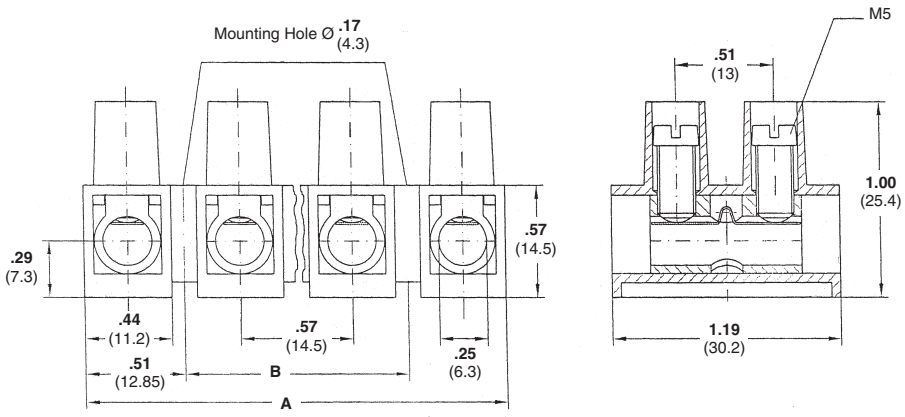
Japan: 81-44-844-8013
UK: 8706-080-208

**Note:** All part numbers are RoHS Compliant.

# 14.5mm [.571] Pitch, 65A High Temperature—Series TSB2000...HT






## Material & Finish

**Housing Material**—Polyamide 6/6
**Flammability**—UL94V-0
**Housing Color**—Brown
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3.5
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless steel

## Mechanical Properties

**Pitch (terminal spacing)**—14.5mm [.571"]
**Wire Strip Length**—9mm [.35"]
**Min. Wire Pull-Out Force**—150 lbs.
**Recommended Tightening Torque**—12 in.-lbs.
**Recommended Screwdrivers**—Stanley 1008, Sears Craftsman 41436, Xcelite R3164

## Electrical Properties

**Maximum Current**—65A (UR), 70A (CSA)
**Operating Voltage**—300V
**Wire Range**—6-14 AWG (UR), 6-22 AWG (CSA)
**Dielectric Withstand**—6000V

## Environmental Properties

**Continuous Working Temperature**—-35°C to +150°C [-31°F to +302°F]

| No. of Positions | Dimensions | | Wire Protector | |
|---|---|---|---|---|
| | A | B | Part Number | Catalog Number |
| 1 | **11.2** (.44) | — | 1776314-1 | TSB2000 01 DSHT |
| 2 | **25.7** (1.01) | — | 1776314-2 | TSB2000 02 DSHT |
| 3 | **40.2** (1.58) | **14.5** (.57) | 1776314-3 | TSB2000 03 DSHT |
| 4 | **54.7** (2.15) | **29.0** (1.14) | 1776314-4 | TSB2000 04 DSHT |
| 5 | **69.2** (2.72) | **43.5** (1.71) | 1776314-5 | TSB2000 05 DSHT |
| 6 | **83.7** (3.30) | **58.0** (2.28) | 1776314-6 | TSB2000 06 DSHT |
| 7 | **98.2** (3.87) | **72.5** (2.85) | 1776314-7 | TSB2000 07 DSHT |
| 8 | **112.7** (4.44) | **87.0** (3.43) | 1776314-8 | TSB2000 08 DSHT |
| 9 | **127.2** (5.01) | **101.5** (4.00) | 1776314-9 | TSB2000 09 DSHT |
| 10 | **141.7** (5.58) | **116.0** (4.57) | 1-1776314-0 | TSB2000 10 DSHT |
| 11 | **156.2** (6.15) | **130.5** (5.14) | 1-1776314-1 | TSB2000 11 DSHT |
| 12 | **170.7** (6.72) | **145.0** (5.71) | 1-1776314-2 | TSB2000 12 DSHT |

Note: Minimum order quantities may apply.

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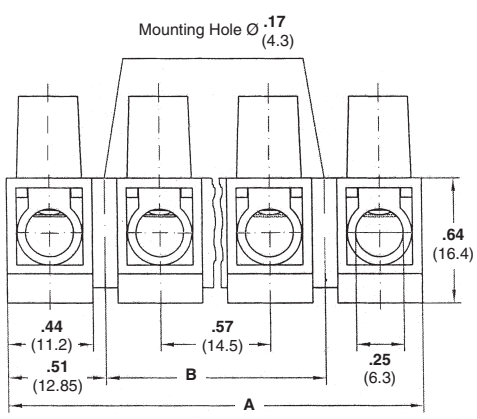
**Note:** All part numbers are RoHS Compliant.



# 14.5mm [.571] Pitch, 65A High Voltage Version—Series TSB2000...US




## Material & Finish

**Housing Material**—Polyamide 6
**Flammability**—UL94V-2
**Color**—Natural (off white)
**Tubular Contact**—Brass, tin plated
**Screw**—Steel, M3.5
**Screw Plating**—Zinc with chromate
**Wire Protector**—Stainless Steel

## Mechanical Properties

**Pitch (terminal spacing)**—14.5mm [.571"]
**Wire Strip Length**—9mm [.35"]
**Min. Wire Pull-Out Force**—150 lbs.
**Recommended Tightening Torque**—12 in.-lbs.
**Recommended Screwdrivers**—Stanley 1008, Sears Craftsman 41436, Xcelite R3164

## Electrical Properties

**Maximum Current**—65A (UR), 70A (CSA)
**Operating Voltage**—600V
**Wire Range**—6-14 AWG (UR), 6-22 AWG (CSA)
**Dielectric Withstand**—6000V

## Environmental Properties

**Continuous Working Temperature**—-35°C to +100°C [-31°F to +212°F]

| No. of Positions | Dimensions | | Wire Protector | |
|---|---|---|---|---|
| | A | B | Part Number | Catalog Number |
| 1 | **11.2** (.44) | — | — | TSB2000 01KDS |
| 2 | **25.7** (1.01) | — | 1776315-2 | TSB2000 02KDS |
| 3 | **40.2** (1.58) | **14.5** (.57) | 1776315-3 | TSB2000 03KDS |
| 4 | **54.7** (2.15) | **29.0** (1.14) | 1776315-4 | TSB2000 04KDS |
| 5 | **69.2** (2.72) | **43.5** (1.71) | 1776315-5 | TSB2000 05KDS |
| 6 | **83.7** (3.30) | **58.0** (2.28) | 1776315-6 | TSB2000 06KDS |
| 7 | **98.2** (3.87) | **72.5** (2.85) | 1776315-7 | TSB2000 07KDS |
| 8 | **112.7** (4.44) | **87.0** (3.43) | 1776315-8 | TSB2000 08KDS |
| 9 | **127.2** (5.01) | **101.5** (4.00) | 1776315-9 | TSB2000 09KDS |
| 10 | **141.7** (5.58) | **116.0** (4.57) | 1-1776315-0 | TSB2000 10KDS |
| 11 | **156.2** (6.15) | **130.5** (5.14) | 1-1776315-1 | TSB2000 11KDS |
| 12 | **170.7** (6.72) | **145.0** (5.71) | 1-1776315-2 | TSB2000 12KDS |

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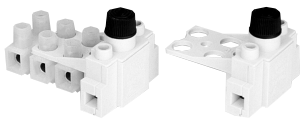
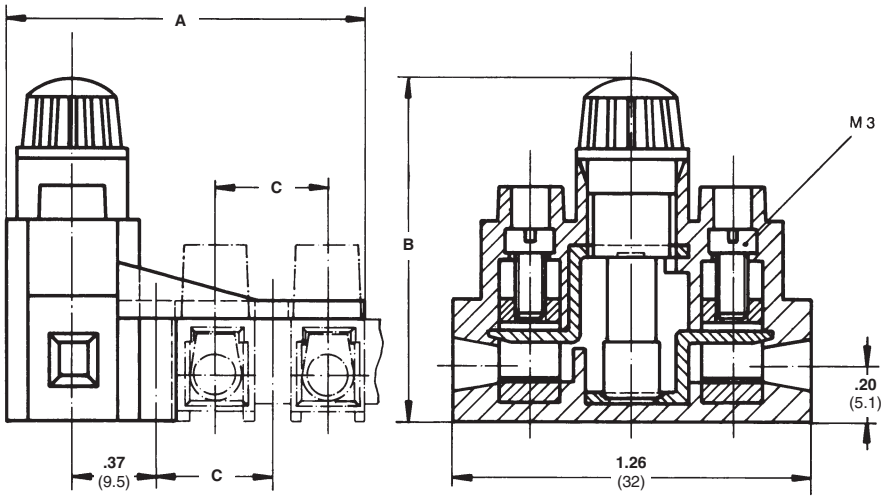
**Note:** All part numbers are RoHS Compliant.

# Fuse Holder (for Series TSB500, TSB1000)—Series 500Si






### Material & Finish

**Housing Material**—Polyamide 6/6
**Color**—Gray
**Tubular Contact**—Brass, tin plated
**Screw**—Steel
**Screw Plating**—Zinc with chromate

### Mechanical Properties

**Pitch (terminal spacing)**—
10mm [.394] and 12mm [.472]
**Wire Strip Length**—6.5mm [.256]

### Electrical Properties

**Maximum Current**—
To VDE 0820—10A
To VDE 0700/0711—10A
**Operating Voltage**—250V
**Wire Range**—12-22 AWG

### Environmental Properties

**Continuous Working Temperature**—
-35°C to +100°C [-31°F to +212°F]

### Series 500Si:

Two versions mate with TSB500 and TSB1000 to provide a fuse holder for 5 x 20mm [.197 x .787] or 5mm x 25mm [.197 x .984] fuses. These connectors comply with VDE 0820, part 2.

### Series 500Si…K:

Same as the standard series but provides a raised, transparent “bayonet catch” which serves as a Fuse Link Carrier for fuses 5 x 25mm [.197 x .984] (with indicator).

| Description | Dimensions | | | Catalog Number |
|---|---|---|---|---|
| | A | B | C | |
| For TSB500 Series | **35** (1.378) | **29** (1.142) | **10** (.394) | 500Si 5 |
| For TSB1000 Series | **37** (1.457) | **30** (1.181) | **12** (.472) | 500Si 10 |
| w/ Fuse Link Carrier for TSB500 Series | **35** (1.378) | **34** (1.339) | **10** (.394) | 500Si 5K |
| w/ Fuse Link Carrier for TSB1000 Series | **37** (1.457) | **35** (1.378) | **12** (.472) | 500Si 10K |



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UK: 8706-080-208

**Note:** All part numbers are RoHS Compliant.



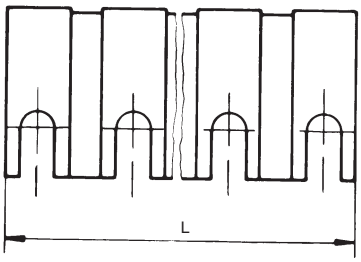
## Covers—Series ABK

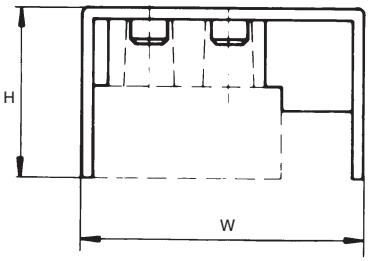
### Material & Finish

**Housing Material**—Polyamide 6/6
**Color**—Gray
**Continuous Working Temperature**—100°C [212°F]

### Series ABK 405, 406, & 415 Covers

These covers mate with Series TSB500, TSB1000 and TSB1500. They do not mate with TSB500 SK.




**Cover for TSB500 Series**

| Dimensions L x W x H | Catalog Number |
|---|---|
| **18 x 29 x 18.8** (.709 x 1.142 x .740) | ABK 405 02 |
| **28 x 29 x 18.8** (1.102 x 1.142 x .740) | ABK 405 03 |
| **38 x 29 x 18.8** (1.496 x 1.142 x .740) | ABK 405 04 |
| **58 x 29 x 18.8** (2.283 x 1.142 x .740) | ABK 405 06 |
| **118 x 29 x 18.8** (4.646 x 1.142 x .740) | ABK 405 12 |

**Cover for TSB1000 Series**

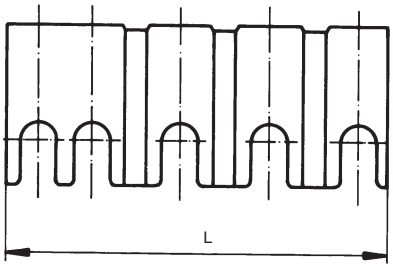
| Dimensions L x W x H | Catalog Number |
|---|---|
| **21 x 35.5 x 20.7** (.827 x 1.398 x .815) | ABK 406 02 |
| **33 x 35.5 x 20.7** (1.299 x 1.398 x .815) | ABK 406 03 |
| **45 x 35.5 x 20.7** (1.772 x 1.398 x .815) | ABK 406 04 |
| **69 x 35.5 x 20.7** (2.717 x 1.398 x .815) | ABK 406 06 |
| **141 x 35.5 x 20.7** (5.551 x 1.398 x .815) | ABK 406 12 |

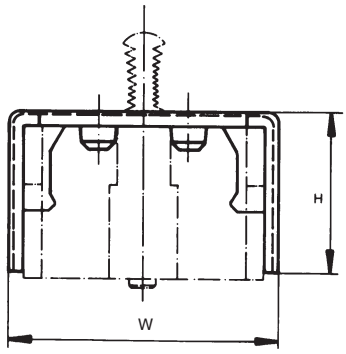
**Cover for TSB1500 Series**

| Dimensions L x W x H | Catalog Number |
|---|---|
| **24 x 37.5 x 25.5** (.945 x 1.476 x 1.004) | ABK 415 02 |
| **37.5 x 37.5 x 25.5** (1.476 x 1.476 x 1.004) | ABK 415 03 |
| **51 x 37.5 x 25.5** (2.008 x 1.476 x 1.004) | ABK 415 04 |
| **78 x 37.5 x 25.5** (3.071 x 1.476 x 1.004) | ABK 415 06 |
| **158 x 37.5 x 25.5** (6.220 x 1.476 x 1.004) | ABK 415 12 |

### Series ABK 503 Covers

These covers mate with Series 503Si.




**Cover for 503Si Series**

| Dimensions L x W x H | Catalog Number |
|---|---|
| **13.5 x 30.5 x 18.5** (.531 x 1.201 x .728) | ABK 503 02 |
| **24 x 30.5 x 18.5** (.945 x 1.201 x .728) | ABK 503 03 |
| **33.5 x 30.5 x 18.5** (1.319 x 1.201 x .728) | ABK 503 04 |
| **43 x 30.5 x 18.5** (1.693 x 1.201 x .728) | ABK 503 05 |



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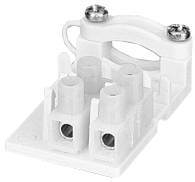
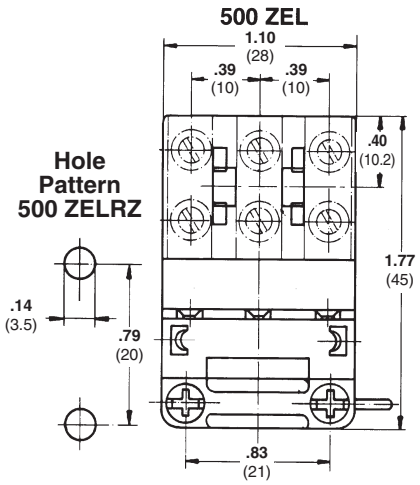
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

**Note:** All part numbers are RoHS Compliant.

# Strain Relief (for Series TSB500)—Series 500…ZEL






## Material & Finish

**Housing Material**—Polyamide 6/6
**Color**—White
**Tracking Resistance**—CTI 600
**Screw**—Steel
**Screw Plating**—Zinc with yellow chromate C 2.9 x 13mm [.114 x .512]

## Environmental Properties

**Continuous Working Temperature**—
-35°C to +100°C [-31°F to +212°F]

| Description | Part Number | Catalog Number |
|---|---|---|
| For Series TSB500 | 1546182-1 | 500 3ZEL |
| With Catch Pin for Series TSB500 | 1546182-2 | 500 3ZELRZ |

Strain reliefs are provided with a captive clamping mechanism that can be rotated by 180° accommodating variable sizes of conductors. Two Phillips screws are enclosed.

A cable guide comb for TSB500 of 3 or more circuits fixes the Europa block to the strain relief. A screw mounts the Europa block to the 500 3ZEL; a catch pin mounts the block to the 500 3ZELRZ



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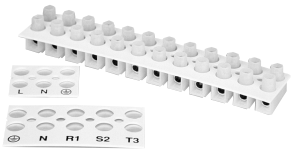
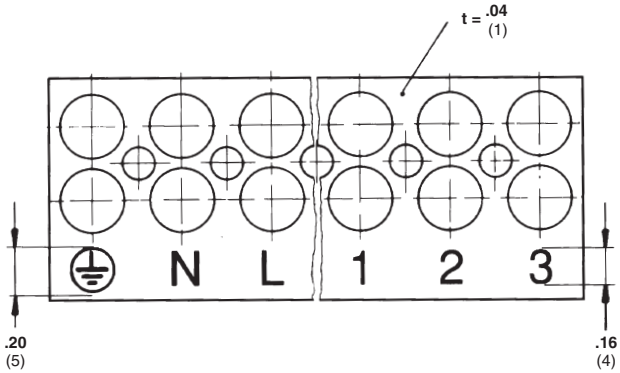
**Note:** All part numbers are RoHS Compliant.



# Blank Marking Labels—Series…BZ (2-12 Circuits)






## Material & Finish

**Material**—Roughened synthetic
**Color**—White
**Thickness**—1mm

| Catalog Number | | | | |
|---|---|---|---|---|
| **TSB230 Series** | **TSB500 Series** | **TSB1000 Series** | **TSB1500 Series** | **TSB2000 Series** |
| 230 BZM | 500 BZM | 1000 BZM | 1500 BZM | 2000 BZM |

Standard Package: 100 pieces per catalog number, 2-meter [6.56 ft] length

Each pole is provided with 2 holes allowing the marking labels to be slipped on the "chimney" tops, and with a mounting hole corresponding to the mounting hole of the connectors.

### Marking Strips:

Series TSB Marking Strips are available in both Standard and Custom-cut lengths. Standard Marking Strips are supplied blank, 2 meters [6.56 ft] in length which the customer may cut to suit individual length requirement. Custom Marking Strips are supplied pre-cut, and may be ordered blank or with printing. Marking Strips protrude from the barrier strip approximately 5mm [.197] on one side, and can be affixed to either the bottom or the top of the barrier strip.

| TSB230 Series | | TSB500 Series | | TSB1000 Series | | TSB1500 Series | TSB2000 Series |
|---|---|---|---|---|---|---|---|
| **Part Number** | **Catalog Number** | **Part Number** | **Catalog Number** | **Part Number** | **Catalog Number** | **Catalog Number** | **Catalog Number** |
| — | M230 BZ 02 | — | M500 BZ 02 | — | M1000 BZ 02 | M1500 BZ 02 | M2000 BZ 02 |
| 1-1437387-5 | M230 BZ 03 | — | M500 BZ 03 | — | M1000 BZ 03 | M1500 BZ 03 | M2000 BZ 03 |
| 1-1437387-6 | M230 BZ 04 | — | M500 BZ 04 | — | M1000 BZ 04 | M1500 BZ 04 | M2000 BZ 04 |
| — | M230 BZ 05 | — | M500 BZ 05 | — | M1000 BZ 05 | M1500 BZ 05 | M2000 BZ 05 |
| — | M230 BZ 06 | 2-1437387-3 | M500 BZ 06 | — | M1000 BZ 06 | M1500 BZ 06 | M2000 BZ 06 |
| — | M230 BZ 07 | — | M500 BZ 07 | — | M1000 BZ 07 | M1500 BZ 07 | M2000 BZ 07 |
| — | M230 BZ 08 | — | M500 BZ 08 | 1546830-8 | M1000 BZ 08 | M1500 BZ 08 | M2000 BZ 08 |
| 1-1437387-7 | M230 BZ 09 | — | M500 BZ 09 | — | M1000 BZ 09 | M1500 BZ 09 | M2000 BZ 09 |
| 1-1437387-8 | M230 BZ 10 | — | M500 BZ 10 | — | M1000 BZ 10 | M1500 BZ 10 | M2000 BZ 10 |
| — | M230 BZ 11 | — | M500 BZ 11 | — | M1000 BZ 11 | M1500 BZ 11 | M2000 BZ 11 |
| 1-1437387-9 | M230 BZ 12 | 2-1437387-4 | M500 BZ 12 | 1437387-6 | M1000 BZ 12 | M1500 BZ 12 | M2000 BZ 12 |

Standard Package: 250 pieces per catalog number



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## Engineering Notes





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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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