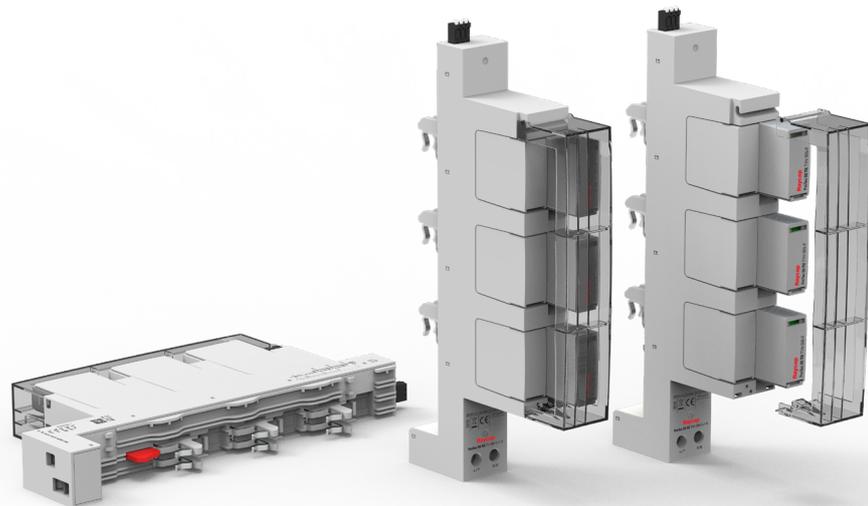


Combined Lightning Current and Surge Arrester

ProTec 60 RX T1H, T1, T2 and T2F Series

Special features:

- For standard and isolated 60 mm busbar systems
- Supports common busbar sizes from 12 to 30 mm, 5 and 10 mm thickness
- SPD Plugs available as Type 1, Type 2 or Type 2 with integrated fuse
- Visual and remote signalization of fuse and SPD status (T2F)
- Shorter connections improve overall voltage protection level
- Pluggable design enables fast & simplified installation
- Reduced installation time and space requirements



IEC 61643-11:2025



EN IEC 61643-11:2025



The Raycap ProTec 60 mm Busbar Series reduces installation time and space requirements and enables fast and simplified installation. Shorter connections improve the overall voltage protection level, providing optimal electrical protection to the installation.

Products feature visual status monitoring of the SPD and the integrated fuse (T2F versions), and remote signalization is available via remote contact. Modules can be easily replaced without removing the product from the busbar. An optional cover plate that can be sealed for preventing unauthorized manipulation. The ProTec 60 RX is designed for use in TN-C, TT and TN-S network systems.

DATASHEET

Combined Lightning Current and Surge Arrester

ProTec 60 RX T1H 3+0

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards,
Standard and isolated 60 mm
busbar systems

Network Systems: TN-C
Mode of Protection: L-PEN

IEC/EN: Class I+II/Type 1+2

Housing: Pluggable design

Compliance: IEC 61643-11:2025
EN IEC 61643-11:2025

**Technical Data**

ProTec 60 RX T1H-xxx-3+0(-R)

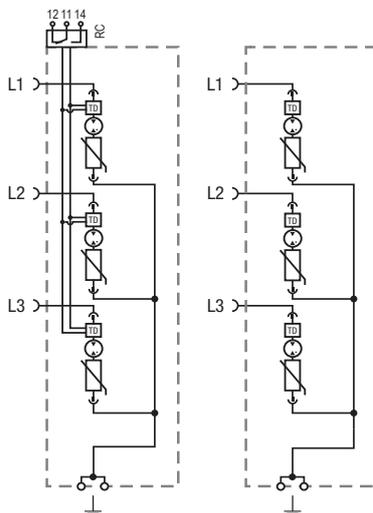
300**IEC Electrical**

| | | |
|--|------------|-----------------|
| Nominal AC Voltage (50/60Hz) | U_o/U_n | 240 V |
| Maximum Continuous Operating Voltage (AC) | U_c | 300 V |
| Nominal Discharge Current (8/20 μ s) | I_n | 20 kA |
| Maximum Discharge Current (8/20 μ s) | I_{max} | 65 kA |
| Impulse Discharge Current (10/350 μ s) | I_{imp} | 12.5 kA |
| Specific Energy | W/R | 39 kJ/ Ω |
| Charge | Q | 6.25 As |
| Voltage Protection Level | U_p | 1500V |
| Response Time | t_A | < 25ns |
| Overvoltage Category | | IV |
| Overcurrent Protection (max) | | 315 A gG |
| Short-Circuit Current Rating (AC) | I_{SCCR} | 25 kA |
| TOV Withstand 5s | U_T | 337 V |
| TOV SafeFail 120min | U_T | 442 V |
| Number of Ports | | 1 |

Mechanical & Environmental

| | | |
|----------------------------------|-----------|--|
| Operating Temperature Range | T_a | -40 °F to +185 °F [-40 °C to +85 °C] |
| Permissible Operating Humidity | RH | 5%...95% |
| Pollution Degree | | 3 |
| Altitude (max) | | 13123 ft [4000m] |
| Terminal Screw Torque | M_{max} | PZ2/40 lbf-in [4.5Nm] |
| Conductor Cross Section (max) | | 2 AWG (Solid, Stranded)/4 AWG (Flexible) 35 mm ² (Solid, Stranded)/25 mm ² (Flexible) |
| Mounting | | Standard and isolated 60 mm busbar systems Width: 12, 15, 20, 25, 30 mm Thickness: 5 mm, 10 mm |
| Degree Of Protection | | IP 20* |
| Housing Material | | Thermoplastic: Extinguishing Degree UL 94 V-0 |
| Operating State/Fault Indication | | Green Flag/Not Green Flag |
| Remote Contacts (RC) | | Optional |
| RC Switching Capacity | | AC: 250V/ 1 A, 125V/1 A; DC: 48V/0.5 A, 24V/0.5 A, 12V/0.5 A |
| RC Conductor Cross Section (max) | | 16 AWG (Solid)/1.5 mm ² (Solid) |
| Overvoltage Category | | III |

*IP 40 (in combination with cover)



Legend

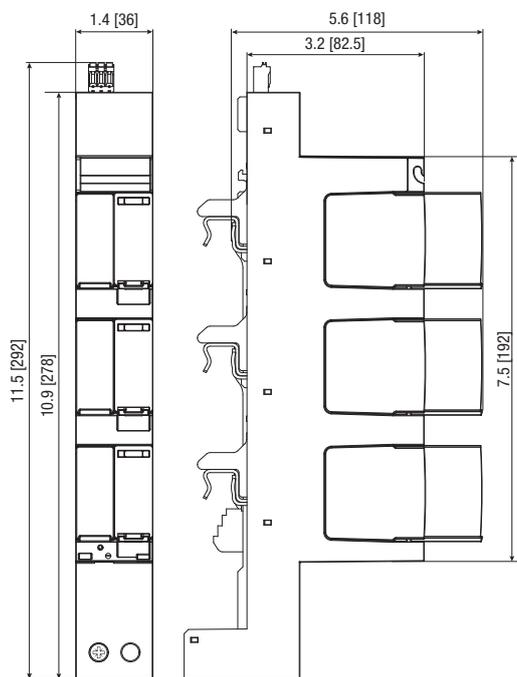
- L Line Busbar Terminal
- ⏚ PEN Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnecter

Order Information

| | |
|---|------------|
| Order Code | 300 |
| ProTec 60 RX T1H-xxx-3+0 | 515 B07 |
| ProTec 60 RX T1H-xxx-3+0-R (with remote contacts) | 515 B08 |
| ProTec 60 RX T1H-xxx-P (plug) | 59.D101 |
| ProAcc 60 RX Cover plate (optional) | 515 B21 |

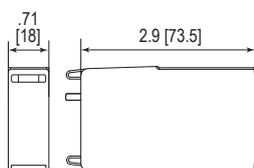
Dimensions & Packaging

inches [mm]



| Complete Unit | |
|-----------------------------------|---|
| ProTec 60 RX T1H-xxx-3+0 | 300 |
| Weight | pounds [grams] 1.556 [706] |
| ProTec 60 RX T1H-xxx-3+0-R | |
| Weight | pounds [grams] 1.601 [726] |
| Packaging Dimensions (HxWxL) | 15.5 x 14.3 x 9.9" [395 x 363 x 253 mm] |
| Standard Order Quantity | 10 Units |

Spare Plug



| Single Unit | |
|-------------------------------|--|
| ProTec 60 RX T1H-xxx-P | 300 |
| Weight | pounds [grams] .223 [101] |
| DIN 43880 Dimension | 1 TE / .71" [18 mm] |
| Packaging Dimensions (HxWxL) | 4.3 x 4.5 x 13.8" [109 x 115 x 352 mm] |
| Standard Order Quantity | 28 Units |

DATASHEET

Combined Lightning Current and Surge Arrester
ProTec 60 RX T1H 3+1
Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards,
Standard and isolated 60 mm
busbar systems

Network Systems: TT, TN-S

Mode of Protection: L-N, N-PE, L-PE (combined)

IEC/EN: Class I+II/Type 1+2

Housing: Pluggable design

Compliance: IEC 61643-11:2025



Technical Data

ProTec 60 RX T1H-xxx-3+1(-R)

300

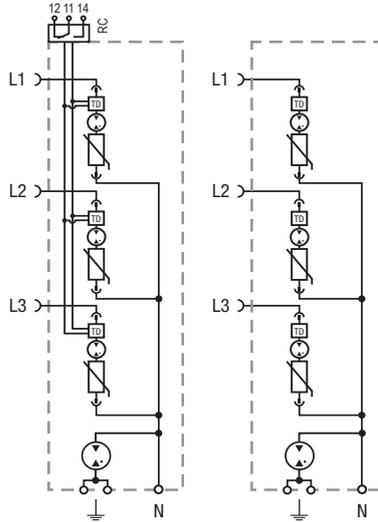
IEC Electrical

| | | |
|--|---------------------------|-----------------------------------|
| Nominal AC Voltage (50/60Hz) | U_o/U_n | 240 V |
| Maximum Continuous Operating Voltage (AC) | (L-N)/(N-PE) U_c | 300 V/305 V |
| Nominal Discharge Current (8/20 μ s) | (L-N)/(N-PE) I_n | 20 kA/80 kA |
| Maximum Discharge Current (8/20 μ s) | (L-N)/(N-PE) I_{max} | 65 kA/100 kA |
| Impulse Discharge Current (10/350 μ s) | (L-N)/(N-PE) I_{imp} | 12.5 kA/50 kA |
| Specific Energy | (L-N)/(N-PE) W/R | 39 kJ/ Ω /625 kJ/ Ω |
| Charge | (L-N)/(N-PE) Q | 6.25 As/25As |
| Voltage Protection Level | (L-N)/(N-PE)/(L-PE) U_p | 1500V/1500V/2100V |
| Follow Current Interrupt Rating | (N-PE) I_{fi} | 100A |
| Response Time | (L-N)/(N-PE) t_A | < 25ns/ < 100ns |
| Overvoltage Category | | IV |
| Overcurrent Protection (max) | | 315 A gG |
| Short-Circuit Current Rating (AC) | I_{SCCR} | 25 kA |
| TOV Withstand 5s | (L-N) U_T | 337 V |
| TOV SafeFail 120min | (L-N) U_T | 442 V |
| TOV Withstand 200ms | (L-N)/(N-PE) U_T | 1200 V |
| Number of Ports | | 1 |

Mechanical & Environmental

| | | |
|----------------------------------|-----------|--|
| Operating Temperature Range | T_a | -40 °F to +185 °F [-40 °C to +85 °C] |
| Permissible Operating Humidity | RH | 5%...95% |
| Pollution Degree | | 3 |
| Altitude (max) | | 13123 ft [4000m] |
| Terminal Screw Torque | M_{max} | PZ2/40 lbf-in [4.5 Nm] |
| Conductor Cross Section (max) | | 2 AWG (Solid, Stranded)/4 AWG (Flexible) 35 mm ² (Solid, Stranded)/25 mm ² (Flexible) |
| Mounting | | Standard and isolated 60 mm busbar systems Width: 12, 15, 20, 25, 30 mm Thickness: 5 mm, 10 mm |
| Degree Of Protection | | IP 20* |
| Housing Material | | Thermoplastic: Extinguishing Degree UL 94 V-0 |
| Operating State/Fault Indication | | Green Flag/Not Green Flag |
| Remote Contacts (RC) | | Optional |
| RC Switching Capacity | | AC: 250V/1 A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A |
| RC Conductor Cross Section (max) | | 16 AWG (Solid)/1.5 mm ² (Solid) |
| Overvoltage Category | | III |

*IP 40 (in combination with cover)



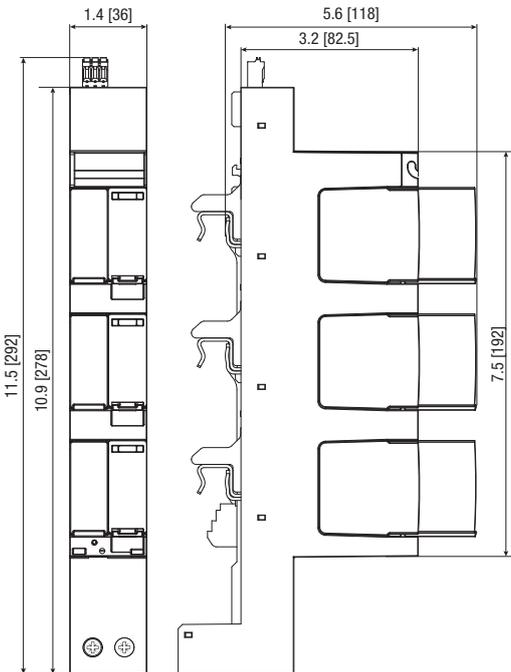
Legend

- L Line Busbar Terminal
- ⏚ PE Conductor Terminal
- N Neutral Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnecter

Order Information

| | |
|---|------------|
| Order Code | 300 |
| ProTec 60 RX T1H-xxx-3+1 | 515 B15 |
| ProTec 60 RX T1H-xxx-3+1-R (with remote contacts) | 515 B16 |
| ProTec 60 RX T1H-xxx-P (plug) | 59.D101 |
| ProAcc 60 RX Cover plate (optional) | 515 B21 |

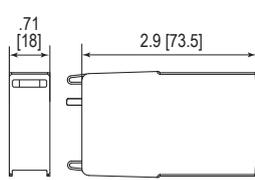
Dimensions & Packaging



Complete Unit

| | |
|-----------------------------------|---|
| ProTec 60 RX T1H-xxx-3+1 | 300 |
| Weight pounds [grams] | 1.579 [716] |
| ProTec 60 RX T1H-xxx-3+1-R | |
| Weight pounds [grams] | 1.645 [746] |
| Packaging Dimensions (HxWxL) | 15.5 x 14.3 x 9.9" [395 x 363 x 253 mm] |
| Standard Order Quantity | 20 Units |

Spare Plug



Single Unit

| | |
|-------------------------------|--|
| ProTec 60 RX T1H-xxx-P | 300 |
| Weight pounds [grams] | .223 [101] |
| DIN 43880 Dimension | 1 TE/.71" [18] |
| Packaging Dimensions (HxWxL) | 4.3 x 4.5 x 13.8" [109 x 115 x 352 mm] |
| Standard Order Quantity | 28 Units |

DATASHEET**Combined Lightning Current and Surge Arrester****ProTec 60 RX T1 3+0****Class I • Class II • Type 1 • Type 2**

Location of Use: Main Distribution Boards,
Standard and isolated 60 mm
busbar systems

Network Systems: TN-C

Mode of Protection: L-PEN

IEC/EN: Class I+II/Type 1+2

Housing: Pluggable design

Compliance: IEC 61643-11:2025

EN IEC 61643-11:2025

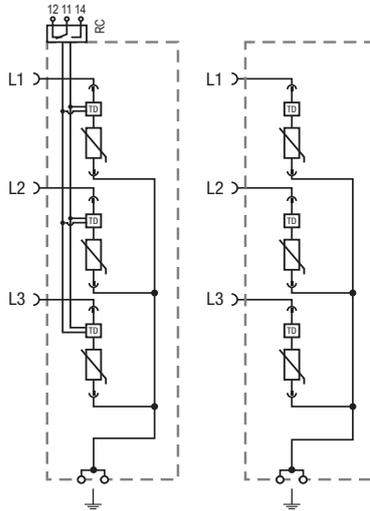
**Technical Data****ProTec 60 RX T1-xxx-3+0(-R)****300****IEC Electrical**

| | | |
|--|------------|-----------------|
| Nominal AC Voltage (50/60Hz) | U_o/U_n | 240 V |
| Maximum Continuous Operating Voltage (AC) | U_c | 300 V |
| Nominal Discharge Current (8/20 μ s) | I_n | 20 kA |
| Maximum Discharge Current (8/20 μ s) | I_{max} | 50 kA |
| Impulse Discharge Current (10/350 μ s) | I_{imp} | 12.5 kA |
| Specific Energy | W/R | 39 kJ/ Ω |
| Charge | Q | 6.25 As |
| Voltage Protection Level | U_p | 1500V |
| Response Time | t_A | < 25ns |
| Overvoltage Category | | IV |
| Overcurrent Protection (max) | | 315 A gG |
| Short-Circuit Current Rating (AC) | I_{SCCR} | 25 kA |
| TOV Withstand 5s | U_T | 337 V |
| TOV SafeFail 120min | U_T | 442 V |
| Number of Ports | | 1 |

Mechanical & Environmental

| | | |
|----------------------------------|-----------|--|
| Operating Temperature Range | T_a | -40 °F to +185 °F [-40 °C to +85 °C] |
| Permissible Operating Humidity | RH | 5%...95% |
| Pollution Degree | | 3 |
| Altitude (max) | | 13123 ft [4000m] |
| Terminal Screw Torque | M_{max} | PZ2/40 lbf-in [4.5Nm] |
| Conductor Cross Section (max) | | 2 AWG (Solid, Stranded)/4 AWG (Flexible) 35 mm ² (Solid, Stranded)/25 mm ² (Flexible) |
| Mounting | | Standard and isolated 60 mm busbar systems Width: 12, 15, 20, 25, 30 mm Thickness: 5 mm, 10 mm |
| Degree Of Protection | | IP 20* |
| Housing Material | | Thermoplastic: Extinguishing Degree UL 94 V-0 |
| Operating State/Fault Indication | | Green Flag/Not Green Flag |
| Remote Contacts (RC) | | Optional |
| RC Switching Capacity | | AC: 250V/ 1 A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A |
| RC Conductor Cross Section (max) | | 16 AWG (Solid)/1.5 mm ² (Solid) |
| Overvoltage Category | | III |

*IP 40 (in combination with cover)



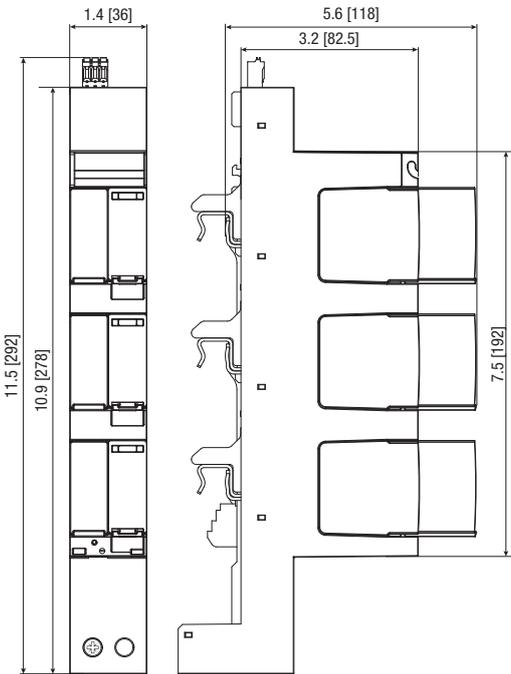
Legend

- L Line Busbar Terminal
- ⊥ PEN Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnecter

Order Information

| | |
|--|------------|
| Order Code | 300 |
| ProTec 60 RX T1-xxx-3+0 | 515 B03 |
| ProTec 60 RX T1-xxx-3+0-R (with remote contacts) | 515 B04 |
| ProTec 60 RX T1-xxx-P (plug) | 59.D100 |
| ProAcc 60 RX Cover plate (optional) | 515 B21 |

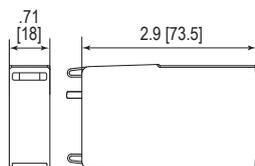
Dimensions & Packaging



Complete Unit

| | |
|----------------------------------|---|
| ProTec 60 RX T1-xxx-3+0 | 300 |
| Weight | pounds [grams] 1.612 [731] |
| ProTec 60 RX T1-xxx-3+0-R | |
| Weight | pounds [grams] 1.620 [735] |
| Packaging Dimensions (HxWxL) | 15.5 x 14.3 x 9.9" [395 x 363 x 253 mm] |
| Standard Order Quantity | 20 Units |

Spare Plug



Single Unit

| | |
|------------------------------|--|
| ProTec 60 RX T1-xxx-P | 300 |
| Weight | pounds [grams] .229 [104] |
| DIN 43880 Dimension | 1 TE / .71" [18 mm] |
| Packaging Dimensions (HxWxL) | 4.3 x 4.5 x 13.8" [109 x 115 x 352 mm] |
| Standard Order Quantity | 28 Units |

DATASHEET

Combined Lightning Current and Surge Arrester

ProTec 60 RX T1 3+1

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards,
Standard and isolated 60 mm
busbar systems

Network Systems: TT, TN-S

Mode of Protection: L-N, N-PE, L-PE (combined)

IEC/EN: Class I+II/Type 1+2

Housing: Pluggable design

Compliance: IEC 61643-11:2025



CE COMPLIANT

Technical Data

ProTec 60 RX T1-xxx-3+1(-R)

300

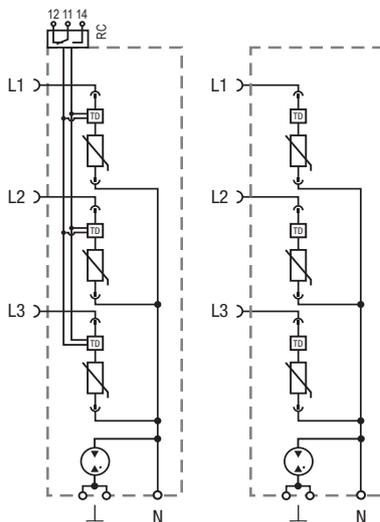
IEC Electrical

| | | |
|--|---------------------------|-----------------------------------|
| Nominal AC Voltage (50/60Hz) | U_o/U_n | 240 V |
| Maximum Continuous Operating Voltage (AC) | (L-N)/(N-PE) U_c | 300 V/305 V |
| Nominal Discharge Current (8/20 μ s) | (L-N)/(N-PE) I_n | 20 kA/80 kA |
| Maximum Discharge Current (8/20 μ s) | (L-N)/(N-PE) I_{max} | 50 kA/100 kA |
| Impulse Discharge Current (10/350 μ s) | (L-N)/(N-PE) I_{imp} | 12.5 kA/50 kA |
| Specific Energy | (L-N)/(N-PE) W/R | 39 kJ/ Ω /625 kJ/ Ω |
| Charge | (L-N)/(N-PE) Q | 6.25 As/25As |
| Voltage Protection Level | (L-N)/(N-PE)/(L-PE) U_p | 1500 V/1500 V/1800 V |
| Follow Current Interrupt Rating | (N-PE) I_{fi} | 100 A |
| Response Time | (L-N)/(N-PE) t_A | < 25 ns / < 100 ns |
| Overvoltage Category | | IV |
| Overcurrent Protection (max) | | 315 A gG |
| Short-Circuit Current Rating (AC) | I_{SCCR} | 25 kA |
| TOV Withstand 5s | (L-N) U_T | 337 V |
| TOV SafeFail 120min | (L-N) U_T | 442 V |
| TOV Withstand 200ms | (L-N)/(N-PE) U_T | 1200 V |
| Number of Ports | | 1 |

Mechanical & Environmental

| | | |
|----------------------------------|-----------|--|
| Operating Temperature Range | T_a | -40 °F to +185 °F [-40 °C to +85 °C] |
| Permissible Operating Humidity | RH | 5%...95% |
| Pollution Degree | | 3 |
| Altitude (max) | | 13123 ft [4000 m] |
| Terminal Screw Torque | M_{max} | PZ2/40 lbf-in [4.5 Nm] |
| Conductor Cross Section (max) | | 2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible) |
| Mounting | | Standard and isolated 60 mm busbar systems Width: 12, 15, 20, 25, 30 mm Thickness: 5 mm, 10 mm |
| Degree Of Protection | | IP 20* |
| Housing Material | | Thermoplastic: Extinguishing Degree UL 94 V-0 |
| Operating State/Fault Indication | | Green Flag/Not Green Flag |
| Remote Contacts (RC) | | Optional |
| RC Switching Capacity | | AC: 250V/1 A, 125V/1 A; DC: 48V/0.5 A, 24V/0.5 A, 12V/0.5 A |
| RC Conductor Cross Section (max) | | 16 AWG (Solid) / 1.5 mm ² (Solid) |
| Overvoltage Category | | III |

*IP 40 (in combination with cover)



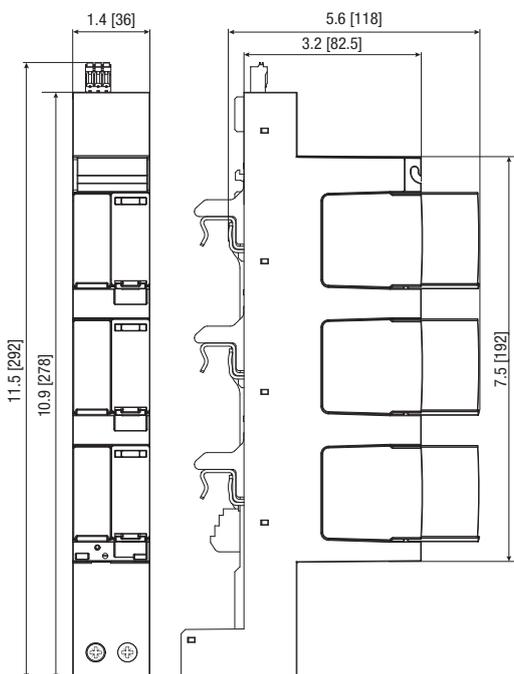
Legend

- L Line Busbar Terminal
- ⏚ PE Conductor Terminal
- N Neutral Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnecter

Order Information

| | |
|--|------------|
| Order Code | 300 |
| ProTec 60 RX T1-xxx-3+1 | 515 B11 |
| ProTec 60 RX T1-xxx-3+1-R (with remote contacts) | 515 B12 |
| ProTec 60 RX T1-xxx-P (plug) | 59.D100 |
| ProAcc 60 RX Cover plate (optional) | 515 B21 |

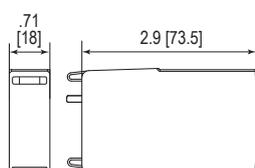
Dimensions & Packaging



Complete Unit

| | |
|----------------------------------|---|
| ProTec 60 RX T1-xxx-3+1 | 300 |
| Weight | pounds [grams] 1.620 [735] |
| ProTec 60 RX T1-xxx-3+1-R | |
| Weight | pounds [grams] 1.664 [755] |
| Packaging Dimensions (HxWxL) | 15.5 x 14.3 x 9.9" [395 x 363 x 253 mm] |
| Standard Order Quantity | 20 Units |

Spare Plug



Single Unit

| | |
|------------------------------|--|
| ProTec 60 RX T1-xxx-P | 300 |
| Weight | pounds [grams] .229 [104] |
| DIN 43880 Dimension | 1 TE / .71" [18 mm] |
| Packaging Dimensions (HxWxL) | 4.3 x 4.5 x 13.8" [109 x 115 x 352 mm] |
| Standard Order Quantity | 28 Units |

DATASHEET

Combined Lightning Current and Surge Arrester
ProTec 60 RX T2F 3+0
Class II • Class III • Type 2 • Type 3



Location of Use: Main Distribution Boards,
Standard and isolated 60 mm
busbar systems

Network Systems: TN-C
Mode of Protection: L-PEN

IEC/EN: Class II+III/Type 2+3

Housing: Pluggable design

Compliance: IEC 61643-11:2025
EN IEC 61643-11:2025



Technical Data

ProTec 60 RX T2F-xxx-3+0-(R)

300

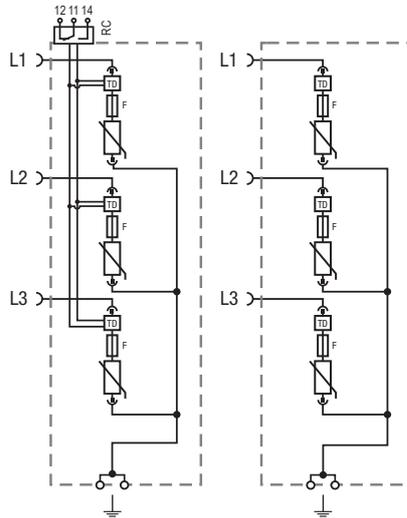
IEC Electrical

| | | |
|---|-------------|--------------|
| Nominal AC Voltage (50/60Hz) | U_o / U_n | 240 V |
| Maximum Continuous Operating Voltage (AC) | U_c | 300 V |
| Nominal Discharge Current (8/20 μ s) | I_n | 20 kA |
| Maximum Discharge Current (8/20 μ s) | I_{max} | 40 kA |
| Voltage Protection Level | U_p | 1500 V |
| Open Circuit Voltage of Combination Wave Generator (1.2/50 μ s) | U_{oc} | 6 kV |
| Short Circuit Current of Combination Wave Generator (8/20 μ s) | I_{cw} | 3 kA |
| Response Time | t_A | < 25 ns |
| Overvoltage Category | | IV |
| Overcurrent Protection (max) | | Not Required |
| Short-Circuit Current Rating (AC) | I_{SCCR} | 50 kA |
| TOV Withstand 5s | U_T | 337 V |
| TOV SafeFail 120min | U_T | 442 V |
| Number of Ports | | 1 |

Mechanical & Environmental

| | | |
|----------------------------------|-----------|--|
| Operating Temperature Range | T_a | -40 °F to +185 °F [-40 °C to +85 °C] |
| Permissible Operating Humidity | RH | 5%...95% |
| Pollution Degree | | 3 |
| Altitude (max) | | 13123 ft [4000m] |
| Terminal Screw Torque | M_{max} | PZ2/40 lbf-in [4.5Nm] |
| Conductor Cross Section (max) | | 2 AWG (Solid, Stranded)/4 AWG (Flexible) 35 mm ² (Solid, Stranded)/25 mm ² (Flexible) |
| Mounting | | Standard and isolated 60 mm busbar systems Width: 12, 15, 20, 25, 30 mm Thickness: 5 mm, 10 mm |
| Degree Of Protection | | IP 20* |
| Housing Material | | Thermoplastic: Extinguishing Degree UL 94 V-0 |
| Operating State/Fault Indication | | Green Flag/Not Green Flag |
| Remote Contacts (RC) | | Optional |
| RC Switching Capacity | | AC: 250V/ 1 A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A |
| RC Conductor Cross Section (max) | | 16 AWG (Solid)/ 1.5 mm ² (Solid) |
| Overvoltage Category | | III |

*IP 40 (in combination with cover)



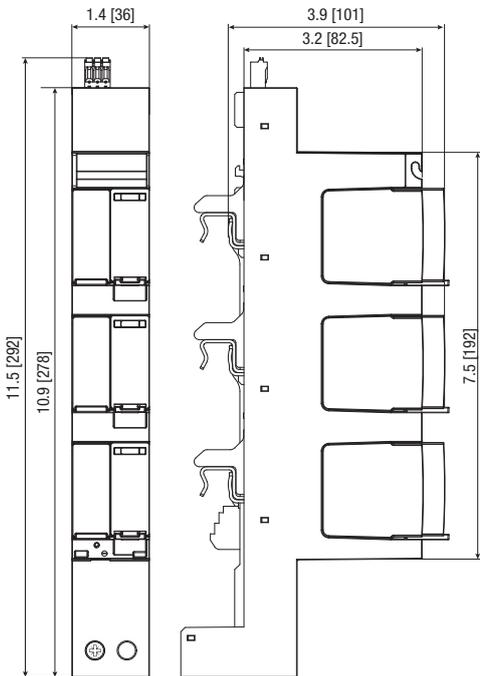
Legend

- L Line Busbar Terminal
- ⏏ PEN Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnecter
- F Integrated Surge Adapted Backup Fuse

Order Information

| | |
|---|------------|
| Order Code | 300 |
| ProTec 60 RX T2F-xxx-3+0 | 515 B05 |
| ProTec 60 RX T2F-xxx-3+0-R (with remote contacts) | 515 B06 |
| ProTec 60 RX T2F-xxx-P (plug) | 59.D106 |
| ProAcc 60 RX Cover plate (optional) | 515 B21 |

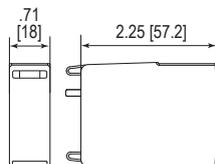
Dimensions & Packaging



Complete Unit

| | |
|-----------------------------------|---|
| ProTec 60 RX T2F-xxx-3+0 | 300 |
| Weight | pounds [grams] 1.343 [609] |
| ProTec 60 RX T2F-xxx-3+0-R | |
| Weight | pounds [grams] 1.387 [629] |
| Packaging Dimensions (HxWxL) | 15.5 x 14.3 x 9.9" [395 x 363 x 253 mm] |
| Standard Order Quantity | 20 Units |

Spare Plug



Single Unit

| | |
|-------------------------------|-------------------------------------|
| ProTec 60 RX T2F-xxx-P | 300 |
| Weight | pounds [grams] .152 [69] |
| DIN 43880 Dimension | 1 TE / .71" [18 mm] |
| Packaging Dimensions (HxWxL) | 3.2 x 4.5 x 12" [83 x 116 x 305 mm] |
| Standard Order Quantity | 24 Units |

Combined Lightning Current and Surge Arrester

ProTec 60 RX T2F 3+1

Class II • Class III • Type 2 • Type 3



Location of Use: Main Distribution Boards,
Standard and isolated 60 mm
busbar systems

Network Systems: TT, TN-S

Mode of Protection: L-N, N-PE, L-PE (combined)

IEC/EN: Class II+III/Type 2+3

Housing: Pluggable design

Compliance: IEC 61643-11:2025

EN IEC 61643-11:2025



Technical Data

ProTec 60 RX T2F-xxx-3+1(-R)

300

IEC Electrical

| | | |
|---|---------------------------|----------------------|
| Nominal AC Voltage (50/60Hz) | U_o/U_n | 240 V |
| Maximum Continuous Operating Voltage (AC) | (L-N)/(N-PE) U_c | 300 V/305 V |
| Nominal Discharge Current (8/20 μ s) | (L-N)/(N-PE) I_n | 20 kA/40 kA |
| Maximum Discharge Current (8/20 μ s) | (L-N)/(N-PE) I_{max} | 40 kA/65 kA |
| Voltage Protection Level | (L-N)/(N-PE)/(L-PE) U_p | 1500 V/1500 V/1800 V |
| Open Circuit Voltage of Combination Wave Generator (1.2/50 μ s) | U_{oc} | 6 kV |
| Short Circuit Current of Combination Wave Generator (8/20 μ s) | I_{cw} | 3 kA |
| Follow Current Interrupt Rating | (N-PE) I_{fi} | 100 A |
| Response Time | (L-N)/(N-PE) t_A | < 25 ns / < 100 ns |
| Overvoltage Category | | IV |
| Overcurrent Protection (max) | | Not Required |
| Short-Circuit Current Rating (AC) | I_{SCCR} | 50 kA |
| TOV Withstand 5s | (L-N) U_T | 337 V |
| TOV SafeFail 120min | (L-N) U_T | 442 V |
| TOV Withstand 200ms | (N-PE) U_T | 1200 V |
| Number of Ports | | 1 |

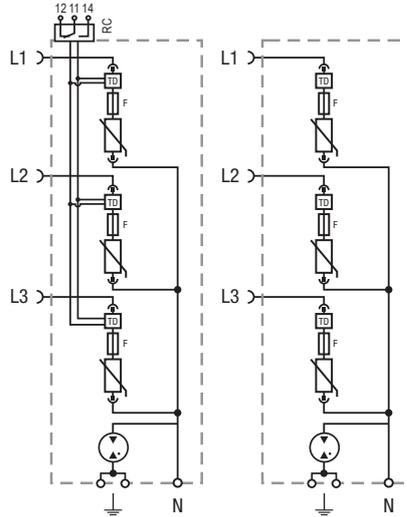
Mechanical & Environmental

| | | |
|----------------------------------|-----------|--|
| Operating Temperature Range | T_a | -40 °F to +185 °F [-40 °C to +85 °C] |
| Permissible Operating Humidity | RH | 5%...95% |
| Pollution Degree | | 3 |
| Altitude (max) | | 13123 ft [4000m] |
| Terminal Screw Torque | M_{max} | PZ2/40 lbf-in [4.5Nm] |
| Conductor Cross Section (max) | | 2 AWG (Solid, Stranded)/4 AWG (Flexible) 35 mm ² (Solid, Stranded)/25 mm ² (Flexible) |
| Mounting | | Standard and isolated 60 mm busbar systems Width: 12, 15, 20, 25, 30 mm Thickness: 5 mm, 10 mm |
| Degree Of Protection | | IP 20* |
| Housing Material | | Thermoplastic: Extinguishing Degree UL 94 V-0 |
| Operating State/Fault Indication | | Green Flag/Not Green Flag |
| Remote Contacts (RC) | | Optional |
| RC Switching Capacity | | AC: 250V/ 1 A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A |
| RC Conductor Cross Section (max) | | 16 AWG (Solid)/ 1.5 mm ² (Solid) |
| Overvoltage Category | | III |

*IP 40 (in combination with cover)

Legend

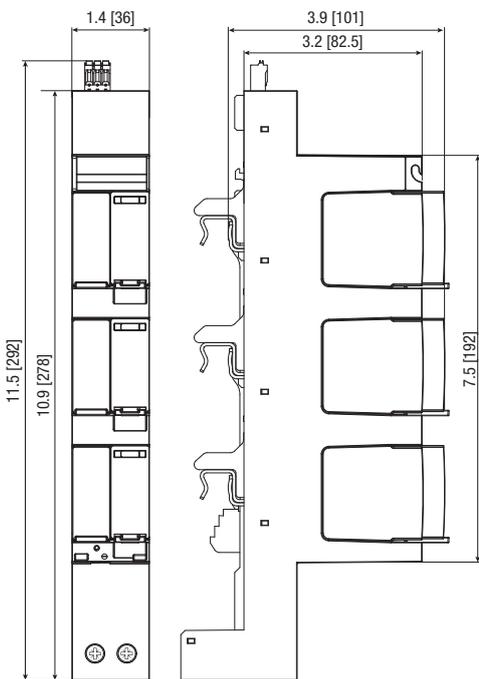
- L Line Busbar Terminal
- N Neutral Conductor Terminal
- ⏚ PE Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnect
- F Integrated Surge Adapted Backup Fuse



Order Information

| | |
|---|------------|
| Order Code | 300 |
| ProTec 60 RX T2F-xxx-3+1 | 515 B13 |
| ProTec 60 RX T2F-xxx-3+1-R (with remote contacts) | 515 B14 |
| ProTec 60 RX T2F-xxx-P (plug) | 59.D106 |
| ProAcc 60 RX Cover plate (optional) | 515 B21 |

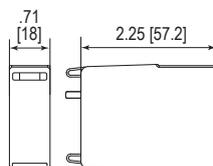
Dimensions & Packaging



Complete Unit

| | |
|-----------------------------------|---|
| ProTec 60 RX T2F-xxx-3+1 | 300 |
| Weight | pounds [grams] 1.365 [619] |
| ProTec 60 RX T2F-xxx-3+1-R | |
| Weight | pounds [grams] 1.409 [639] |
| Packaging Dimensions (HxWxL) | 15.5 x 14.3 x 9.9" [395 x 363 x 253 mm] |
| Standard Order Quantity | 20 Units |

Spare Plug



Single Unit

| | |
|-------------------------------|-------------------------------------|
| ProTec 60 RX T2F-xxx-P | 300 |
| Weight | pounds [grams] .152 [69] |
| DIN 43880 Dimension | 1 TE / .71" [18 mm] |
| Packaging Dimensions (HxWxL) | 3.2 x 4.5 x 12" [83 x 116 x 305 mm] |
| Standard Order Quantity | 24 Units |

DATASHEET**Combined Lightning Current and Surge Arrester****ProTec 60 RX T2 3+0****Class II • Type 2**

Location of Use: Main Distribution Boards,
Standard and isolated 60 mm
busbar systems

Network Systems: TN-C

Mode of Protection: L-PEN

IEC/EN: Class II/Type 2

Housing: Pluggable design

Compliance: IEC 61643-11:2025

EN IEC 61643-11:2025

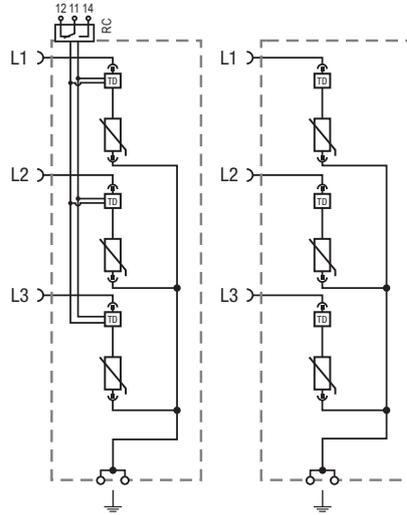
**Technical Data****ProTec 60 RX T2-xxx-3+0(-R)****300****IEC Electrical**

| | | |
|---|------------|----------|
| Nominal AC Voltage (50/60Hz) | U_o/U_n | 240 V |
| Maximum Continuous Operating Voltage (AC) | U_c | 300 V |
| Nominal Discharge Current (8/20 μ s) | I_n | 20 kA |
| Maximum Discharge Current (8/20 μ s) | I_{max} | 50 kA |
| Voltage Protection Level | U_p | 1500 V |
| Response Time | t_A | < 25 ns |
| Overvoltage Category | | IV |
| Overcurrent Protection (max) | | 315 A gG |
| Short-Circuit Current Rating (AC) | I_{SCCR} | 25 kA |
| TOV Withstand 5s | U_T | 337 V |
| TOV SafeFail 120min | U_T | 442 V |
| Number of Ports | | 1 |

Mechanical & Environmental

| | | |
|----------------------------------|-----------|--|
| Operating Temperature Range | T_a | -40 °F to +185 °F [-40 °C to +85 °C] |
| Permissible Operating Humidity | RH | 5%...95% |
| Pollution Degree | | 3 |
| Altitude (max) | | 13123 ft [4000m] |
| Terminal Screw Torque | M_{max} | PZ2/40 lbf-in [4.5Nm] |
| Conductor Cross Section (max) | | 2 AWG (Solid, Stranded)/4 AWG (Flexible) 35 mm ² (Solid, Stranded)/25 mm ² (Flexible) |
| Mounting | | Standard and isolated 60 mm busbar systems Width: 12, 15, 20, 25, 30 mm Thickness: 5 mm, 10 mm |
| Degree Of Protection | | IP 20* |
| Housing Material | | Thermoplastic: Extinguishing Degree UL 94 V-0 |
| Operating State/Fault Indication | | Green Flag/Not Green Flag |
| Remote Contacts (RC) | | Optional |
| RC Switching Capacity | | AC: 250V/1 A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A |
| RC Conductor Cross Section (max) | | 16 AWG (Solid)/1.5 mm ² (Solid) |
| Overvoltage Category | | III |

*IP 40 (in combination with cover)



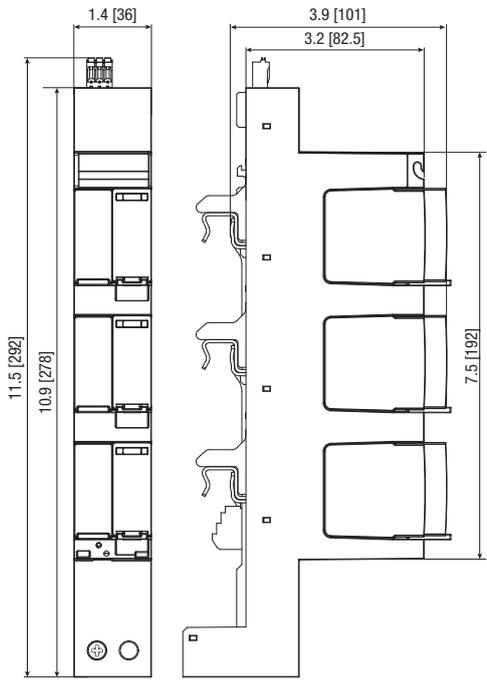
Legend

- L Line Busbar Terminal
- ⏚ PEN Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnecter

Order Information

| | |
|--|------------|
| Order Code | 300 |
| ProTec 60 RX T2-xxx-3+0 | 515 B01 |
| ProTec 60 RX T2-xxx-3+0-R (with remote contacts) | 515 B02 |
| ProTec 60 RX T2-xxx-P (plug) | 59.D105 |
| ProAcc 60 RX Cover plate (optional) | 515 B21 |

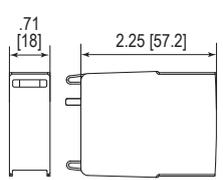
Dimensions & Packaging



Complete Unit

| | |
|----------------------------------|---|
| ProTec RX 60 T2-xxx-3+0 | 300 |
| Weight | pounds [grams] 1.321 [599] |
| ProTec RX 60 T2-xxx-3+0-R | |
| Weight | pounds [grams] 1.576 [715] |
| Packaging Dimensions (HxWxL) | 15.5 x 14.3 x 9.9" [395 x 363 x 253 mm] |
| Standard Order Quantity | 20 Units |

Spare Plug



Single Unit

| | |
|------------------------------|-------------------------------------|
| ProTec 60 RX T2-xxx-P | 300 |
| Weight | pounds [grams] .130 [59] |
| DIN 43880 Dimension | 1 TE / .71" [18 mm] |
| Packaging Dimensions (HxWxL) | 3.2 x 4.5 x 12" [83 x 116 x 305 mm] |
| Standard Order Quantity | 24 Units |

DATASHEET

Combined Lightning Current and Surge Arrester
ProTec 60 RX T2 3+1
Class II • Type 2



Location of Use: Main Distribution Boards,
Standard and isolated 60 mm
busbar systems

Network Systems: TT, TN-S

Mode of Protection: L-N, N-PE, L-PE (combined)

IEC/EN: Class II/Type 2

Housing: Pluggable design

Compliance: IEC 61643-11:2025

EN IEC 61643-11:2025



Technical Data

ProTec 60 RX T2-xxx-3+1(-R)

300

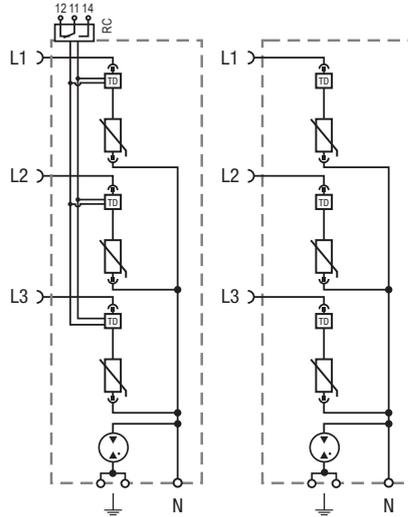
IEC Electrical

| | | |
|---|---------------------------|----------------------|
| Nominal AC Voltage (50/60Hz) | U_o/U_n | 240 V |
| Maximum Continuous Operating Voltage (AC) | (L-N)/(N-PE) U_c | 300 V/305 V |
| Nominal Discharge Current (8/20 μ s) | (L-N)/(N-PE) I_n | 20 kA/40 kA |
| Maximum Discharge Current (8/20 μ s) | (L-N)/(N-PE) I_{max} | 50 kA/65 kA |
| Voltage Protection Level | (L-N)/(N-PE)/(L-PE) U_p | 1500 V/1500 V/1600 V |
| Follow Current Interrupt Rating | (N-PE) I_{fi} | 100 A |
| Response Time | (L-N)/(N-PE) t_A | < 25 ns / < 100 ns |
| Overvoltage Category | | IV |
| Overcurrent Protection (max) | | 315 A gG |
| Short-Circuit Current Rating (AC) | I_{SCCR} | 25 kA |
| TOV Withstand 5s | (L-N) U_T | 337 V |
| TOV SafeFail 120min | (L-N) U_T | 442 V |
| TOV Withstand 200ms | (N-PE) U_T | 1200 V |
| Number of Ports | | 1 |

Mechanical & Environmental

| | | |
|----------------------------------|-----------|---|
| Operating Temperature Range | T_a | -40 °F to +185 °F [-40 °C to +85 °C] |
| Permissible Operating Humidity | RH | 5%...95% |
| Pollution Degree | | 3 |
| Altitude (max) | | 13123 ft [4000 m] |
| Terminal Screw Torque | M_{max} | PZ2/40 lbf-in [4.5 Nm] |
| Conductor Cross Section (max) | | 2 AWG (Solid, Stranded)/4 AWG (Flexible) 35 mm ² (Solid, Stranded)/25 mm ² (Flexible) |
| Mounting | | Standard and isolated 60 mm busbar systems Width: 12, 15, 20, 25, 30 mm Thickness: 5 mm, 10 mm (with removed spacers) |
| Degree Of Protection | | IP 20* |
| Housing Material | | Thermoplastic: Extinguishing Degree UL 94 V-0 |
| Operating State/Fault Indication | | Green Flag/Not Green Flag |
| Remote Contacts (RC) | | Optional |
| RC Switching Capacity | | AC: 250V/ 1 A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A |
| RC Conductor Cross Section (max) | | 16 AWG (Solid)/ 1.5 mm ² (Solid) |
| Overvoltage Category | | III |

*IP 40 (in combination with cover)



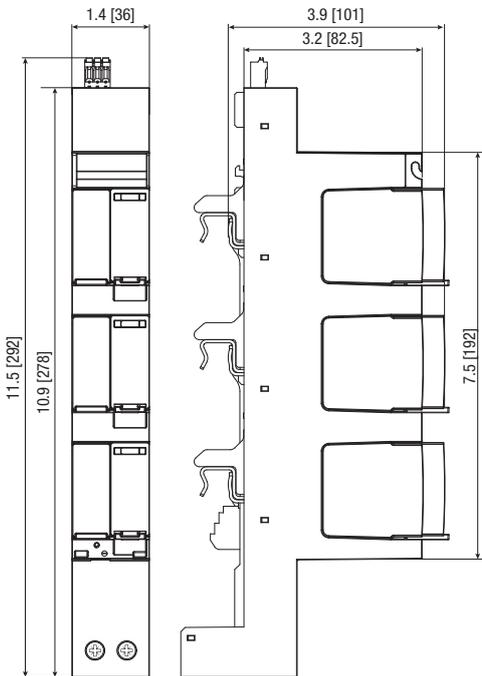
Legend

- L Line Busbar Terminal
- N Neutral Conductor Terminal
- ⊥ PE Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnecter

Order Information

| | |
|--|------------|
| Order Code | 300 |
| ProTec 60 RX T2-xxx-3+1 | 515 B09 |
| ProTec 60 RX T2-xxx-3+1-R (with remote contacts) | 515 B10 |
| ProTec 60 RX T2-xxx-P (plug) | 59.D105 |
| ProAcc 60 RX Cover plate (optional) | 515 B21 |

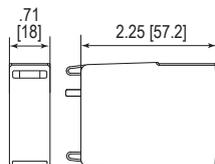
Dimensions & Packaging



Complete Unit

| | |
|----------------------------------|---|
| ProTec 60 RX T2-xxx-3+1 | 300 |
| Weight | pounds [grams] 1.299 [589] |
| ProTec 60 RX T2-xxx-3+1-R | |
| Weight | pounds [grams] 1.343 [609] |
| Packaging Dimensions (HxWxL) | 15.5 x 14.3 x 9.9" [395 x 363 x 253 mm] |
| Standard Order Quantity | 10 Units |

Spare Unit



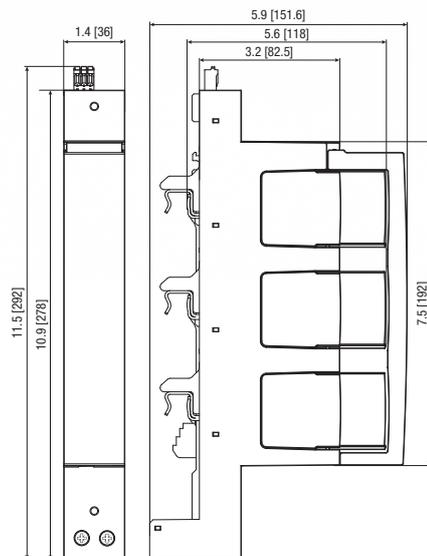
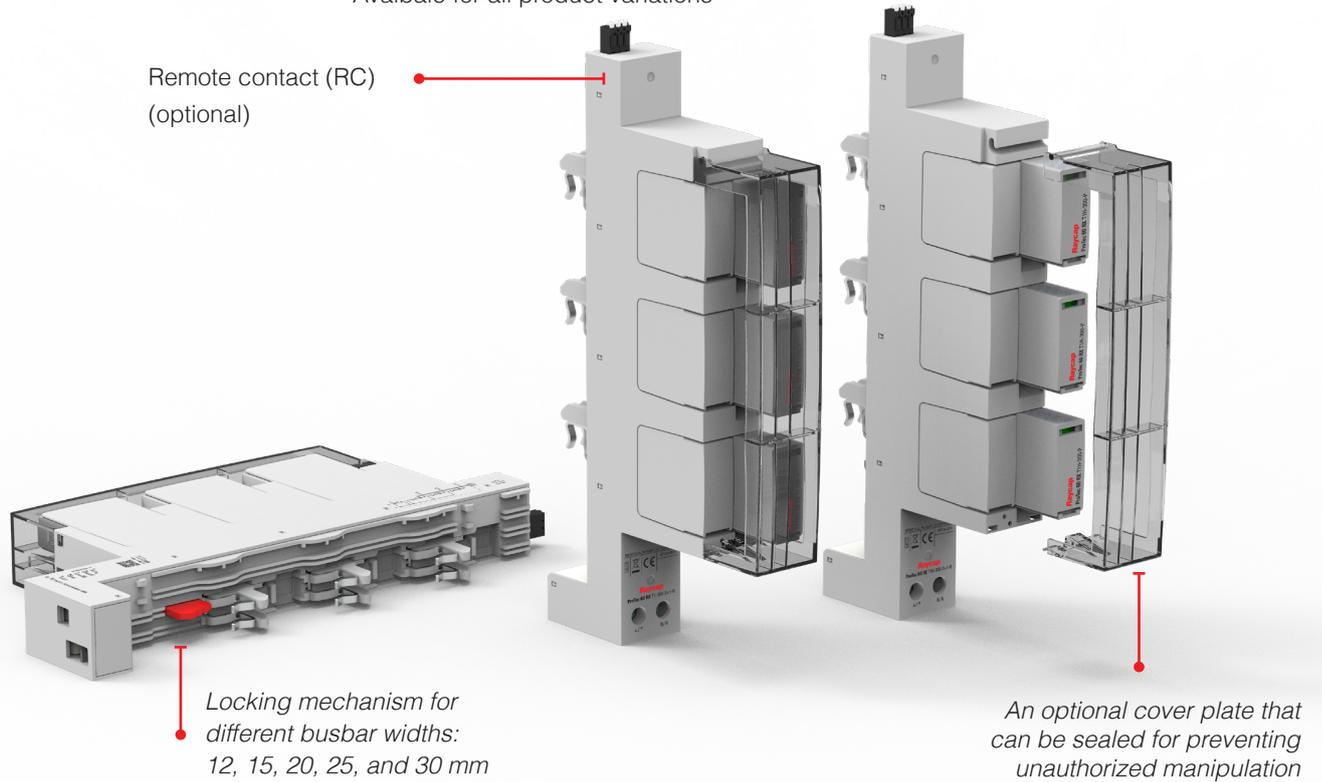
Single Unit

| | |
|------------------------------|-------------------------------------|
| ProTec 60 RX T2-xxx-P | 300 |
| Weight | pounds [grams] .130 [59] |
| DIN 43880 Dimension | 1 TE / .71" [18 mm] |
| Packaging Dimensions (HxWxL) | 3.2 x 4.5 x 12" [83 x 116 x 305 mm] |
| Standard Order Quantity | 24 Units |

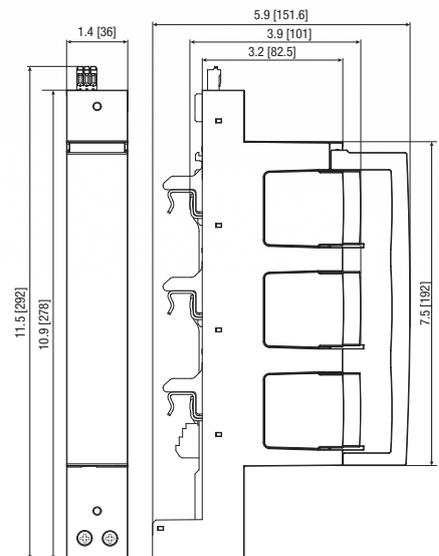


ProAcc 60 RX Cover plate (optional)

- Cover Plate for Pre-meter installations (optional)
- Available for all product variations



ProTec 60 RX T1



ProTec 60 RX T2