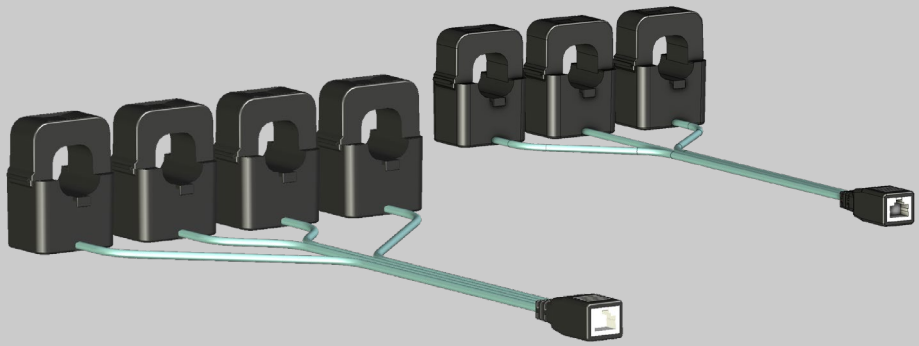


Doc. no. 2.353.113.1.b 11/2026

# Split Core
# Low Power Current Transformer

SET-RJ45-CT-SC-012-...
SET-RJ45-CT-SC-016-...
SET-RJ45-CT-SC-024-...
SET-RJ45-CT-SC-036-...

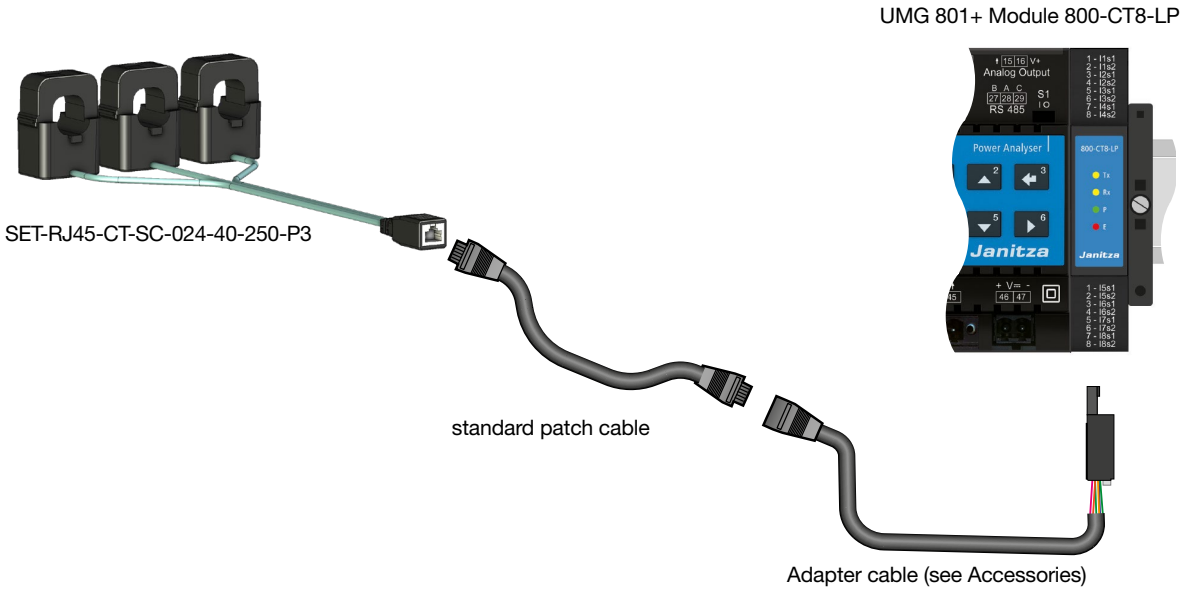
Data sheet

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35633 Lahnau | Germany
Support +49 6441 9642-22
info@janitza.com | www.janitza.com

Janitza

# WIRING DESCRIPTION

The SET-RJ45-CT-SC... current transformers are ready-to-connect, low-power current transformers for 3- or 4-conductor measurements. They can be connected directly to the measurement inputs of the 800-CT8-LP module or the UMG 96-PQ-L-LP using a standard RJ45 patch cable and an adapter (see Accessories).




*Connection example for a 3-conductor measurement using the SET-RJ45-CT-SC-024-40-250-P3 current transformers on the 800-CT8-LP module.*

# ACCESSORIES

Adapter cable with an RJ45 socket to an 8-pin header connector for direct connection to the 800-CT8-LP module or the UMG 96-PQ-L-LP.
**Type:** SET LP-CON-RJ45
**Article number:** 1503198
**Cable length:** 20 cm (7.87 in)



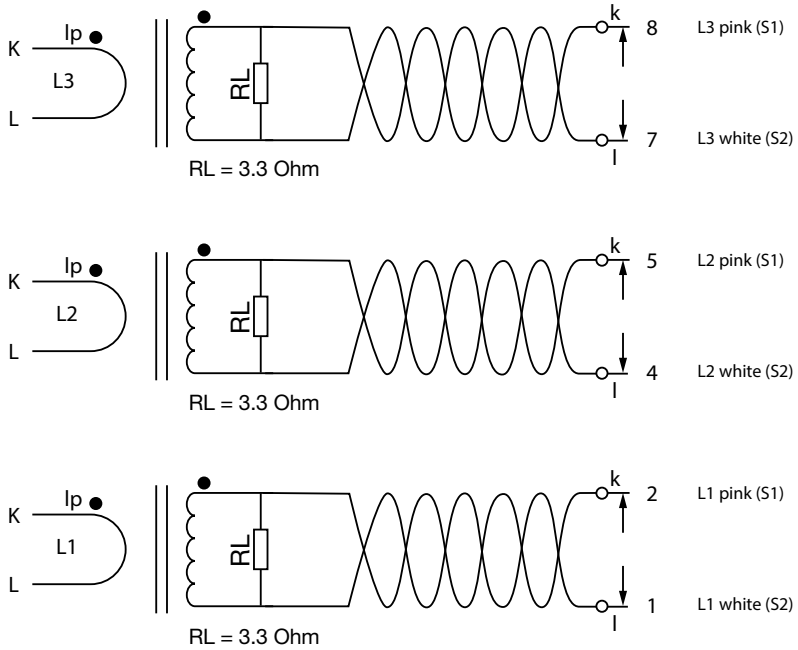
# STRUCTURE OF THE PRODUCT DESIGNATION

**SET-RJ45-CT-SC-024-40-250-P3+N**

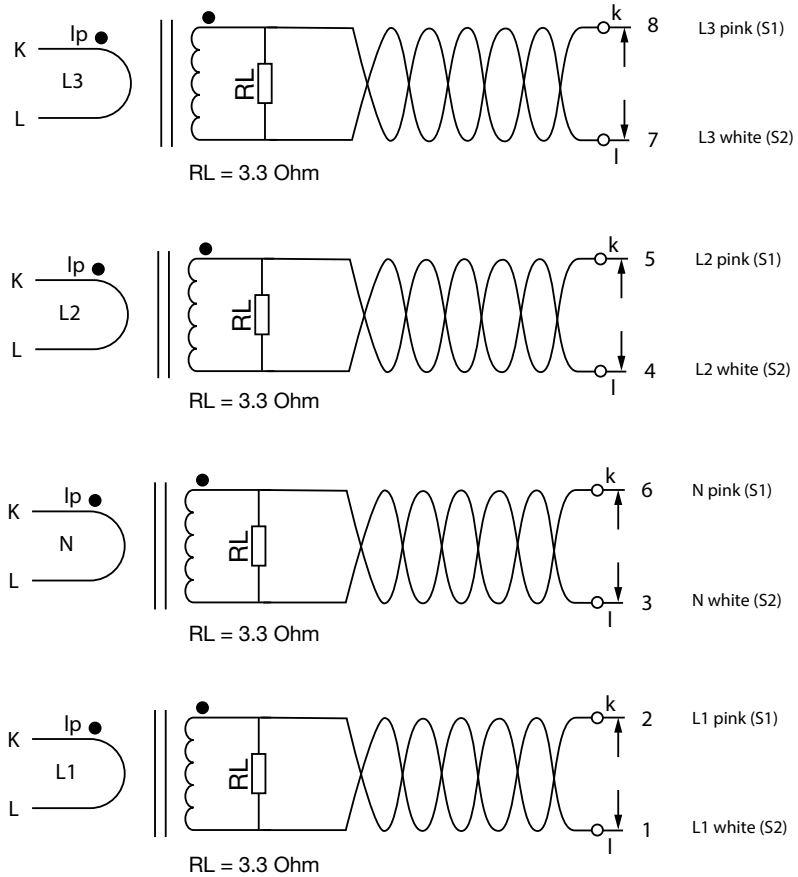
- Additional information
- Primary conductor current in amperes
- Connection cable length in cm
- Maximum primary conductor diameter
- SC = Split Core
- CT = Current Transformer
- Type designation

# CONNECTION

**SET-RJ45-CT-SC-xxx-xx-xxx-P3 - 3 current transformers**



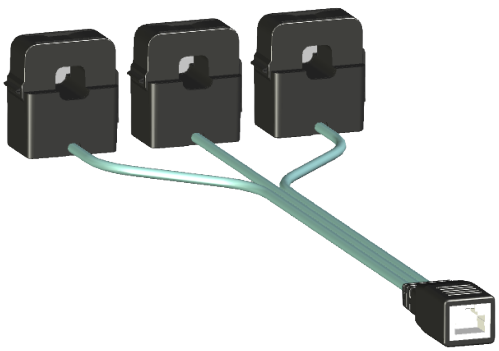

**SET-RJ45-CT-SC-xxx-xx-xxx-P3+N - 4 current transformers**



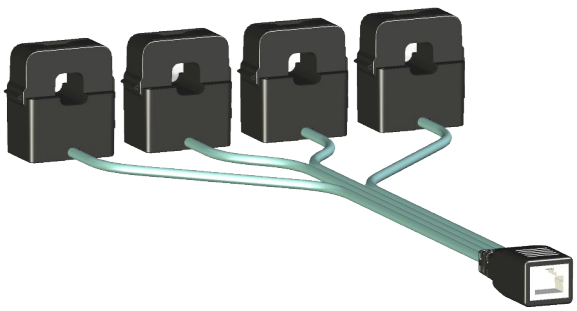
# TECHNICAL DATA & DIMENSIONS

| Type | SET-RJ45-CT-SC-012-40-75-P3 | SET-RJ45-CT-SC-012-40-75-P3+N |
|---|---|---|
| Article number | 1503904 | 1504904 |
| Number of current transformers | 3 | 4 |
| Approx. weight | 240 g (0.53 lb) | 310 g (0.68 lb) |
| Primary current | 75 A | |
| Turns ratio | Np:Ns=1:2250 | |
| Output signal | 333 mV | |
| Short time thermal current for 1 sec | 16 kA | |
| Overload capacity | 120 % | |
| Accuracy class | 0.5 | |
| Phase error at nominal current | ≤1° | |
| Working temperature | -40 .. 65 °C (-40 .. 149 °F) | |
| Storage temperature | -45 .. 85 °C ( -49 .. 185 °F) | |
| Dielectric strength | 2.5 kV / 1 mA / 1 min | |
| Insulation class | A (105 °C / 221 °F) | |
| Frequency | 50 - 60 Hz | |
| Insulation resistance | DC 500 V / 100 MΩ min | |
| Standards | ANSI C57.13 and IEC61869-2 | |
| PVC wire leads | 24 AWG | |
| Housing | Rigid housing case with UL 94 V-0 durable plastic | |
| Length of the connection cable for each current transformer | 400±20 mm (15.75±0.78 in) | |

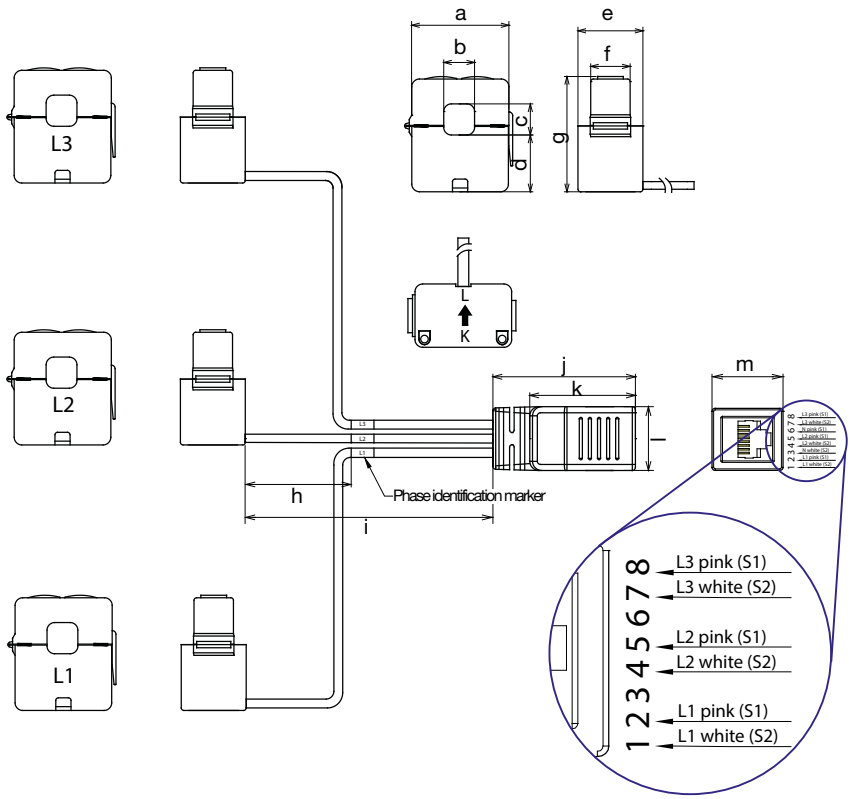
**SET-RJ45-CT-SC-012-40-xxx-P3**



**SET-RJ45-CT-SC-012-40-xxx-P3+N**

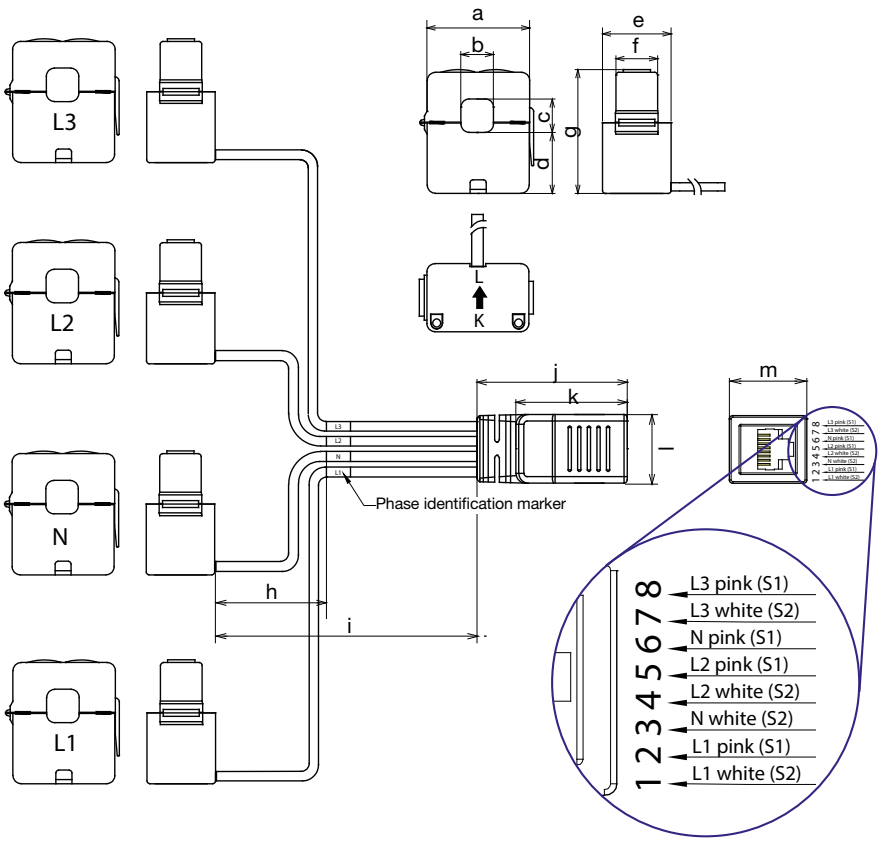


**SET-RJ45-CT-SC-012-40-75-P3**




| Dimensions in mm (in) | |
|---|---|
| a | 37.5±0.5 (1.48±0.02) |
| b | 12.0±0.3 (0.47±0.01) |
| c | 12.5 (0.49) |
| d | 22.6 (0.89) |
| e | 25.5±0.5 (1.00±0.02) |
| f | 16.0 (0.63) |
| g | 45.9±0.5 (2.81±0.02) |
| h | 100.0±20 (3.94±0.78) |
| i | 400.0±20 (15.75±0.78) |
| j | 47.0 (1.85) |
| k | 35.0 (1.38) |
| l | 21.0 (0.83) |
| m | 19.0 (0.75) |

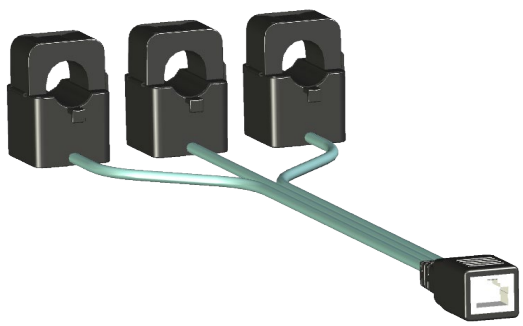
**SET-RJ45-CT-SC-012-40-75-P3+N**



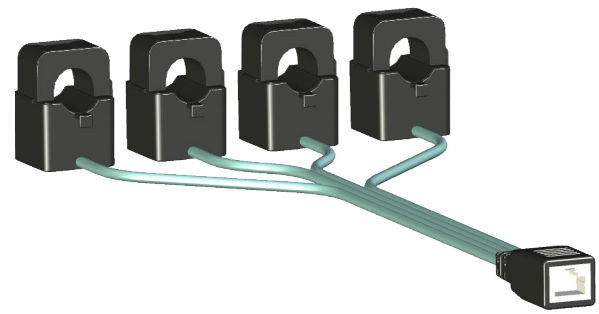

| Dimensions in mm (in) | |
|---|---|
| a | 37.5±0,5 (1.48±0.02) |
| b | 12.0±0,3 (0.47±0.01) |
| c | 12.5 (0.49) |
| d | 22.6 (0.89) |
| e | 25.5±0.5 (1.00±0.02) |
| f | 16.0 (0.63) |
| g | 45.9±0.5 (2.81±0.02) |
| h | 100.0±20 (3.94±0.78) |
| i | 400.0±20 (15.75±0.78) |
| j | 47.0 (1.85) |
| k | 35.0 (1.38) |
| l | 21.0 (0.83) |
| m | 19.0 (0.75) |

| Type | SET-RJ45-CT-SC-016-40-100-P3 | SET-RJ45-CT-SC-016-40-100-P3+N |
|---|---|---|
| Article number | 1503905 | 1504905 |
| Number of current transformers | 3 | 4 |
| Approx. weight | 270 g (0.6 lb) | 350 g (0.77 lb) |
| Primary current | 100 A | |
| Turns ratio | Np:Ns=1:3000 | |
| Output signal | 333 mV | |
| Short time thermal current for 1 sec | 16 kA | |
| Overload capacity | 120 % | |
| Accuracy class | 0.5 | |
| Phase error at nominal current | ≤1° | |
| Working temperature | -40 .. 65 °C (-40 .. 149 °F) | |
| Storage temperature | -45 .. 85 °C (-49 .. 185 °F) | |
| Dielectric strength | 2.5 kV / 1 mA / 1 min | |
| Insulation class | A (105 °C / 221 °F) | |
| Frequency | 50 - 60 Hz | |
| Insulation resistance | DC 500 V / 100 MΩ min | |
| Standards | ANSI C57.13 and IEC61869-2 | |
| PVC wire leads | 24 AWG | |
| Housing | Rigid housing case with UL 94 V-0 durable plastic | |
| Length of the connection cable for each current transformer | 400±20 mm (15.75±0.78 in) | |

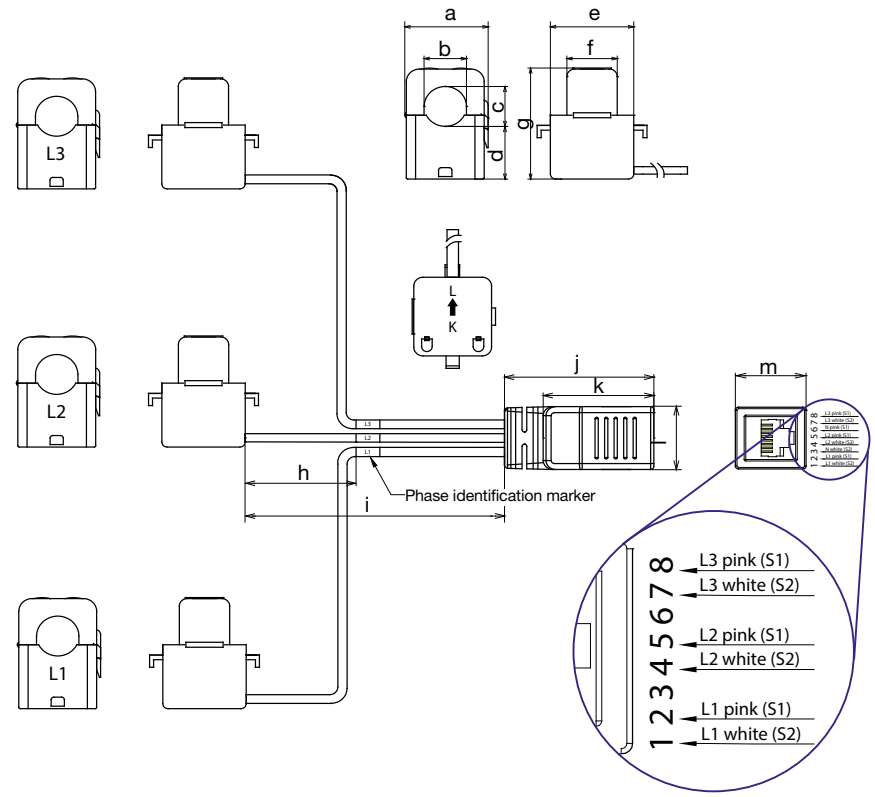
**SET-RJ45-CT-SC-016-40-xxx-P3**



**SET-RJ45-CT-SC-016-40-xxx-P3+N**

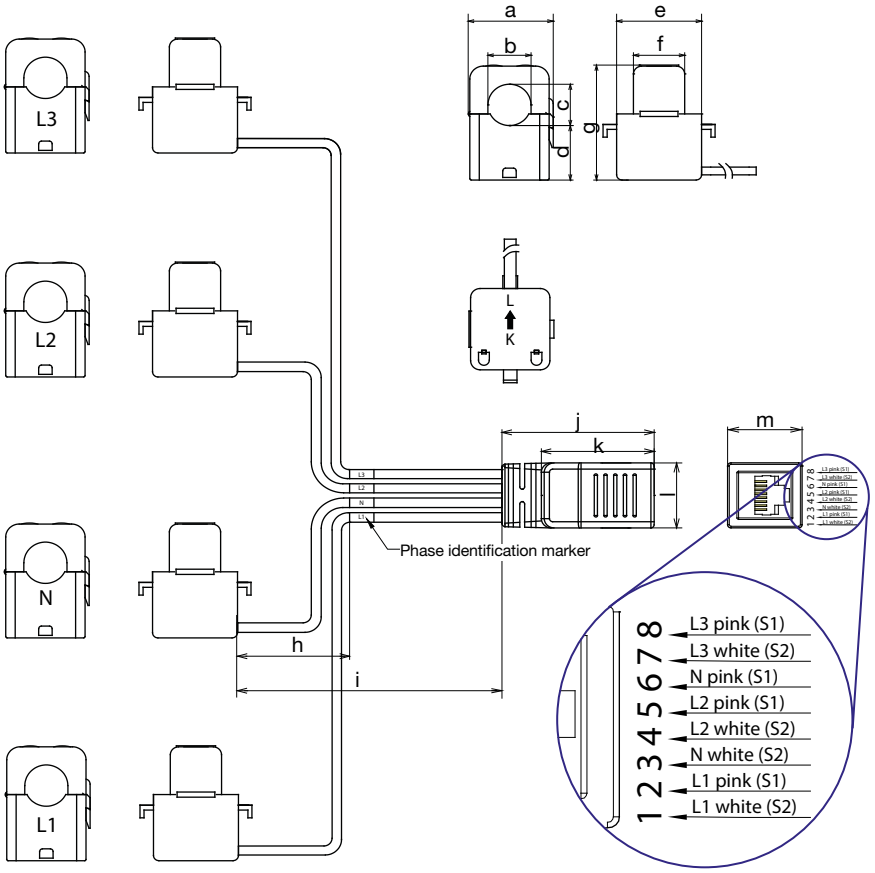


**SET-RJ45-CT-SC-016-40-100-P3**




| Dimensions in mm (in) | |
|---|---|
| a | 31.5±0,5 (1.24±0.02) |
| b | 16.0 (0.63) |
| c | 17.0 (0.67) |
| d | 21.5 (0.85) |
| e | 32.0±0.3 (1.26±0.01) |
| f | 19.0 (0.75) |
| g | 46.0±0.5 (1.81±0.02) |
| h | 100.0±20 (3.94±0.78) |
| i | 400.0±20 (15.75±0.78) |
| j | 47.0 (1.85) |
| k | 35.0 (1.38) |
| l | 21.0 (0.83) |
| m | 19.0 (0.75) |

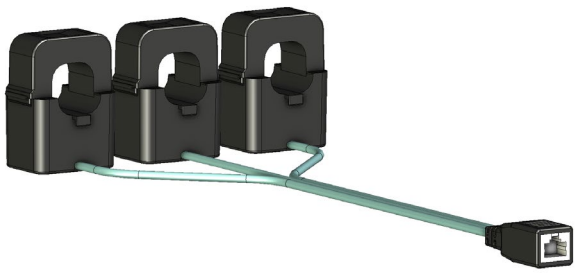
**SET-RJ45-CT-SC-016-40-100-P3+N**



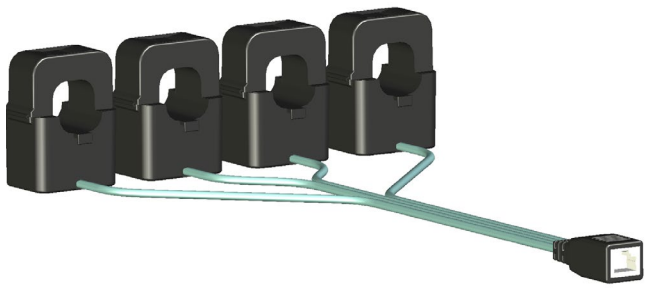

| Dimensions in mm (in) | |
|---|---|
| a | 31.5±0.5 (1.24±0.02) |
| b | 16.0 (0.63) |
| c | 17.0 (0.67) |
| d | 21.5 (0.85) |
| e | 32.0±0.3 (1.26±0.01) |
| f | 19.0 (0.75) |
| g | 46.0±0.5 (1.81±0.02) |
| h | 100.0±20 (3.94±0.78) |
| i | 400.0±20 (15.75±0.78) |
| j | 47.0 (1.85) |
| k | 35.0 (1.38) |
| l | 21.0 (0.83) |
| m | 19.0 (0.75) |

| Type | SET-RJ45-CT-SC-024-40-250-P3 | SET-RJ45-CT-SC-024-40-250-P3+N |
|---|---|---|
| Article number | 1503906 | 1504906 |
| Number of current transformers | 3 | 4 |
| Approx. weight | 603 g (1.33 lb) | 790 g (1.74 lb) |
| Primary current | 250 A | |
| Turns ratio | Np:Ns=1:2475 | |
| Output signal | 333 mV | |
| Short time thermal current for 1 sec | 40 kA | |
| Overload capacity | 120 % | |
| Accuracy class | 0.5 | |
| Phase error at nominal current | ≤0.5° | |
| Working temperature | -40 .. 65 °C (-40 .. 149 °F) | |
| Storage temperature | -45 .. 85 °C ( -49 .. 185 °F) | |
| Dielectric strength | 2.5 kV / 1 mA / 1 min | |
| Insulation class | A (105 °C / 221 °F) | |
| Frequency | 50 - 60 Hz | |
| Insulation resistance | DC 500 V / 100 MΩ min | |
| Standards | ANSI C57.13 and IEC61869-2 | |
| PVC wire leads | 24 AWG | |
| Housing | Rigid housing case with UL 94 V-0 durable plastic | |
| Length of the connection cable for each current transformer | 400±20 mm (15.75±0.78 in) | |

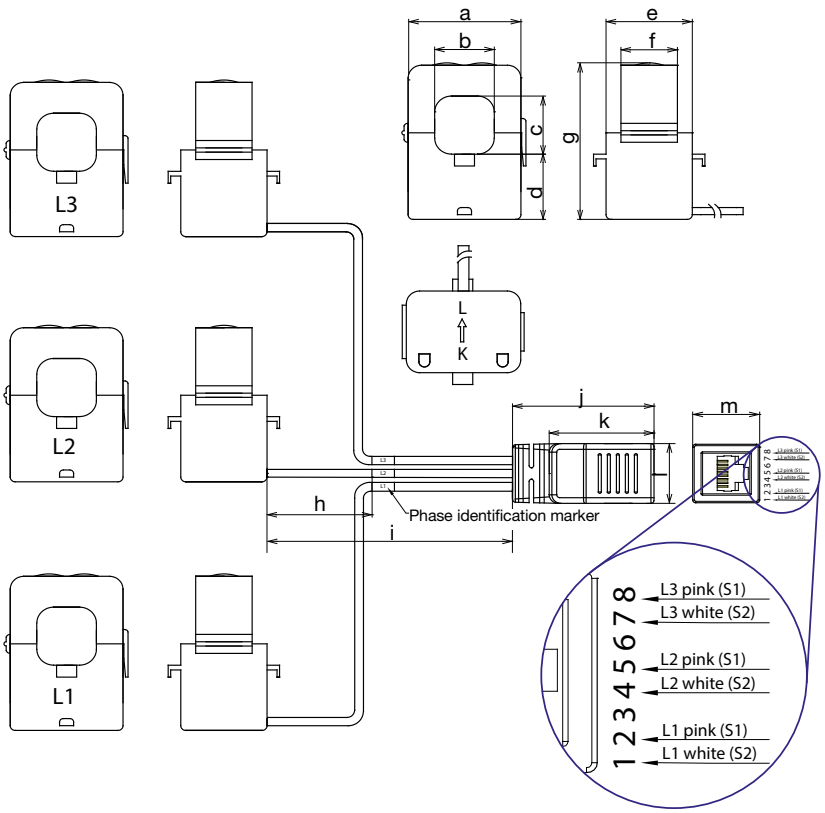
**SET-RJ45-CT-SC-024-40-xxx-P3**



**SET-RJ45-CT-SC-024-40-xxx-P3+N**

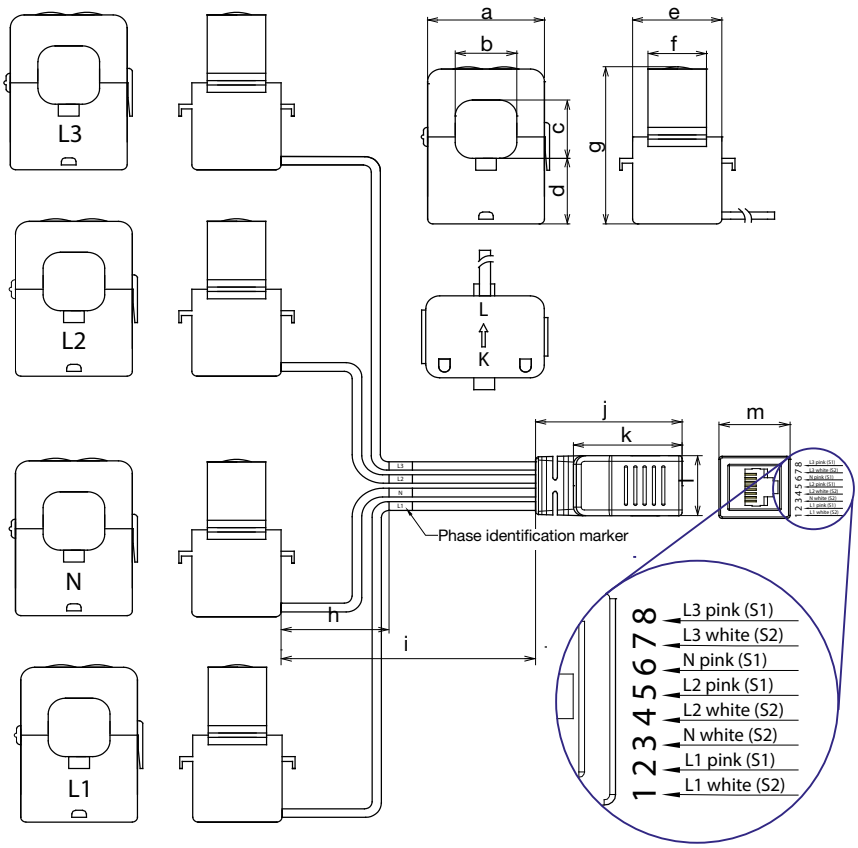


**SET-RJ45-CT-SC-024-40-250-P3**




| Dimensions in mm (in) | |
|---|---|
| a | 45.5±0.5 (1.79±0.02) |
| b | 23.8±0.3 (0.94±0.01) |
| c | 24.5 (0.96) |
| d | 27.8 (1.09) |
| e | 34.4±0.5 (1.35±0.02) |
| f | 22.5 (0.89) |
| g | 65.5±0.5 (2.58±0.02) |
| h | 100.0±20 (3.94±0.78) |
| i | 400.0±20 (15.75±0.78) |
| j | 47.0 (1.85) |
| k | 35.0 (1.38) |
| l | 21.0 (0.83) |
| m | 19.0 (0.75) |

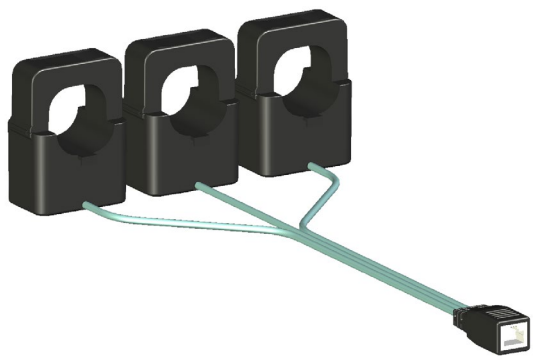
**SET-RJ45-CT-SC-024-40-250-P3+N**



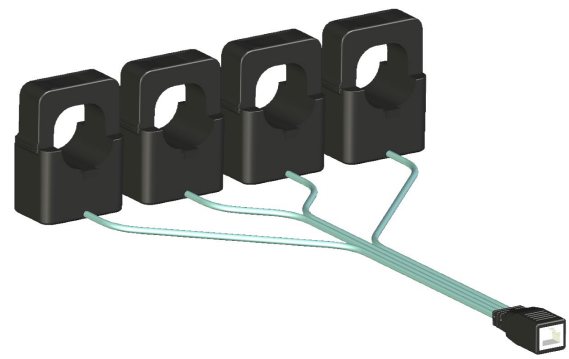

| Dimensions in mm (in) | |
|---|---|
| a | 45.5±0.5 (1.79±0.02) |
| b | 23.8±0.3 (0.94±0.01) |
| c | 24.5 (0.96) |
| d | 27.8 (1.09) |
| e | 34.4±0.5 (1.35±0.02) |
| f | 22.5 (0.89) |
| g | 65.5±0.5 (2.58±0.02) |
| h | 100.0±20 (3.94±0.78) |
| i | 400.0±20 (15.75±0.78) |
| j | 47.0 (1.85) |
| k | 35.0 (1.38) |
| l | 21.0 (0.83) |
| m | 19.0 (0.75) |

| Type | SET-RJ45-CT-SC-036-40-400-P3 | SET-RJ45-CT-SC-036-40-400-P3+N | SET-RJ45-CT-SC-036-40-600-P3 | SET-RJ45-CT-SC-036-40-600-P3+N |
|---|---|---|---|---|
| Article number | 1503907 | 1504907 | 1503908 | 1504908 |
| Number of current transformers | 3 | 4 | 3 | 4 |
| Approx. weight | 880 g (1.94 lb) | 1140 g (2.51 lb) | 960 g (2.17 lb) | 1240 g (2.73 lb) |
| Primary current | 400 A | | 600 A | |
| Turns ratio | Np:Ns=1:3960 | | Np:Ns=1:5490 | |
| Output signal | 333 mV | | | |
| Short time thermal current for 1 sec | 40 kA | | | |
| Overload capacity | 120 % | | | |
| Accuracy class | 0.5 | | | |
| Phase error at nominal current | ≤0.5° | | | |
| Working temperature | -40 .. 65 °C (-40 .. 149 °F) | | -40 .. 60 °C (-40 .. 140 °F) | |
| Storage temperature | -45 .. 85 °C ( -49 .. 185 °F) | | | |
| Dielectric strength | 2.5 kV / 1 mA / 1 min | | | |
| Insulation class | A (105 °C / 221 °F) | | | |
| Frequency | 50 - 60 Hz | | | |
| Insulation resistance | DC 500 V / 100 MΩ min | | | |
| Standards | ANSI C57.13 and IEC61869-2 | | | |
| PVC wire leads | 24 AWG | | | |
| Housing | Rigid housing case with UL 94 V-0 durable plastic | | | |
| Length of the connection cable for each current transformer | 400±20 mm (15.75±0.78 in) | | | |

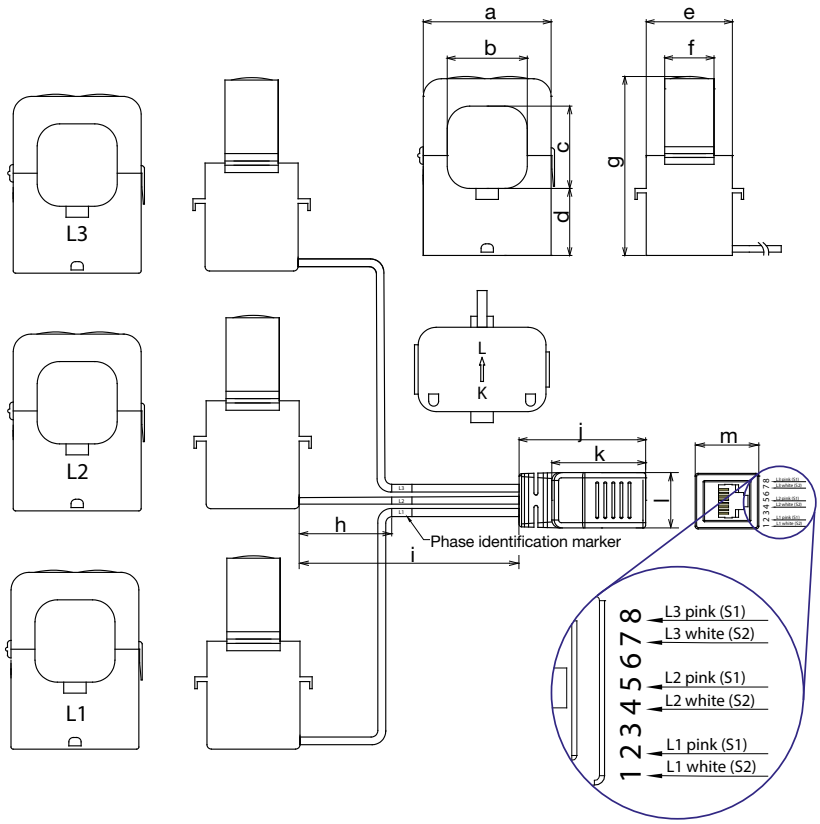
**SET-RJ45-CT-SC-036-40-xxx-P3**



**SET-RJ45-CT-SC-036-40-xxx-P3+N**

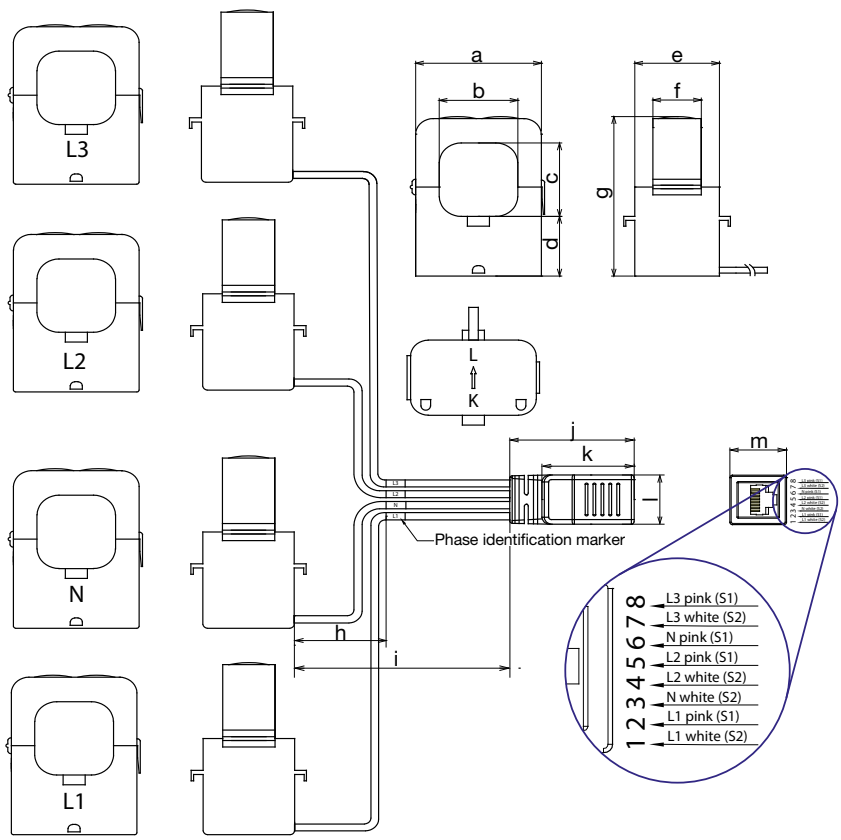


**SET-RJ45-CT-SC-036-40-xxx-P3**




| Dimensions in mm (in) | |
|---|---|
| a | 57.0±0.5 (2.24±0.02) |
| b | 35.7±0.3 (1.41±0.01) |
| c | 37.0 (1.46) |
| d | 31.8 (1.25) |
| e | 38.4±0.5 (1.51±0.02) |
| f | 22 (0.87) |
| g | 81.5±0.5 (3.21±0.02) |
| h | 100.0±20 (3.94±0.78) |
| i | 400.0±20 (15.75±0.78) |
| j | 47.0 (1.85) |
| k | 35.0 (1.38) |
| l | 21.0 (0.83) |
| m | 19.0 (0.75) |

**SET-RJ45-CT-SC-036-40-xxx-P3+N**




| Dimensions in mm (in) | |
|---|---|
| a | 57.0±0.5 (2.24±0.02) |
| b | 35.7±0.3 (1.41±0.01) |
| c | 37.0 (1.46) |
| d | 31.8 (1.25) |
| e | 38.4±0.5 (1.51±0.02) |
| f | 22 (0.87) |
| g | 81.5±0.5 (3.21±0.02) |
| h | 100.0±20 (3.94±0.78) |
| i | 400.0±20 (15.75±0.78) |
| j | 47.0 (1.85) |
| k | 35.0 (1.38) |
| l | 21.0 (0.83) |
| m | 19.0 (0.75) |

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Doc. No. 2.353.113.1.b | 11/2026 | Subject to technical alterations
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