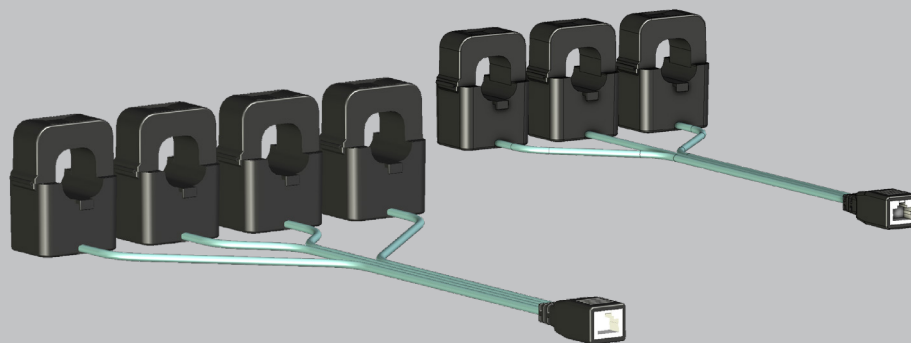




Split Core Low Power Current Transformer

SET-RJ45-CT-SC-012-...

SET-RJ45-CT-SC-016-...

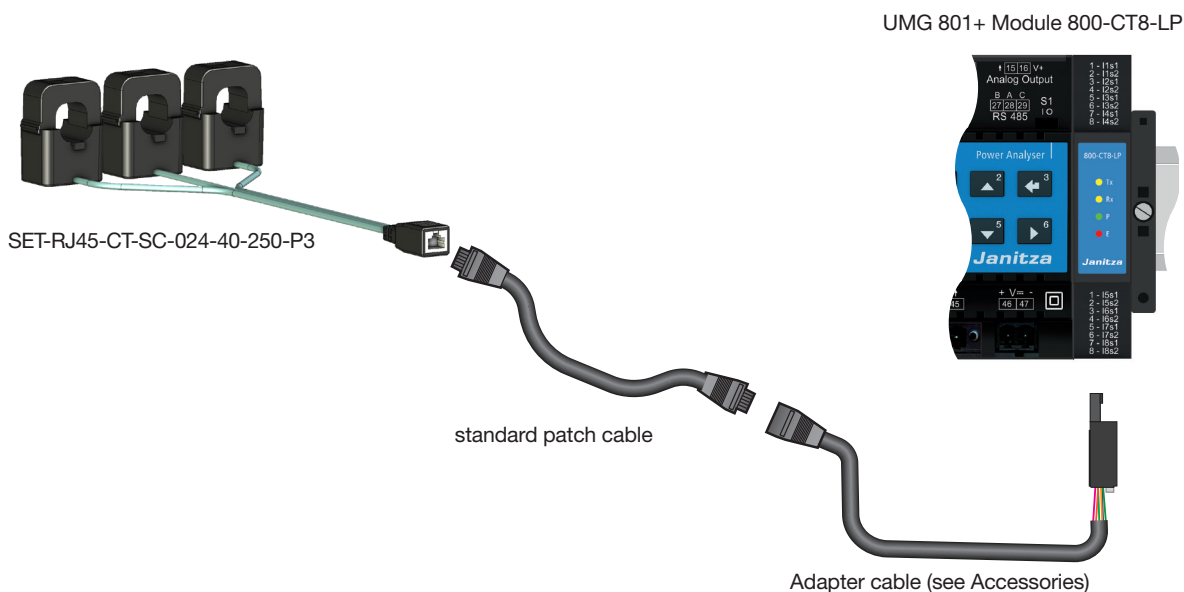
SET-RJ45-CT-SC-024-...

SET-RJ45-CT-SC-036-...

Data sheet

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.

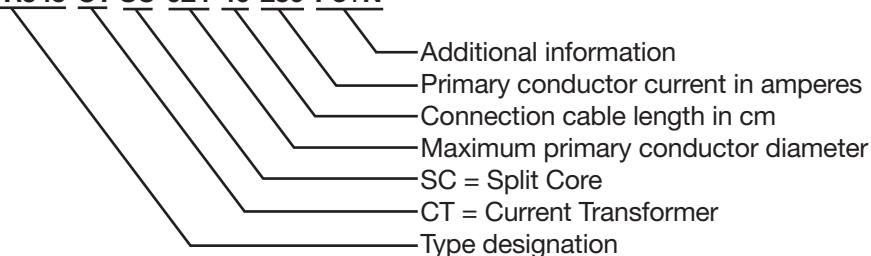
Type: SET LP-CON-RJ45

Article number: 1503198



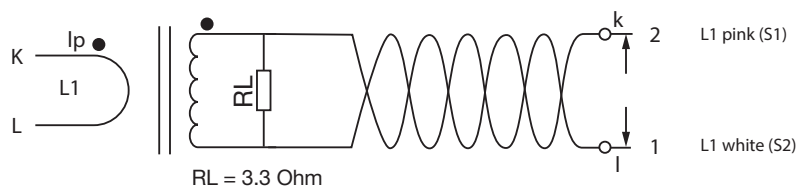
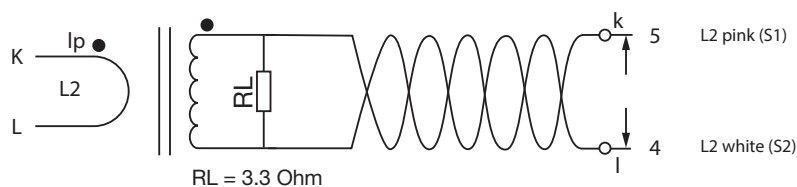
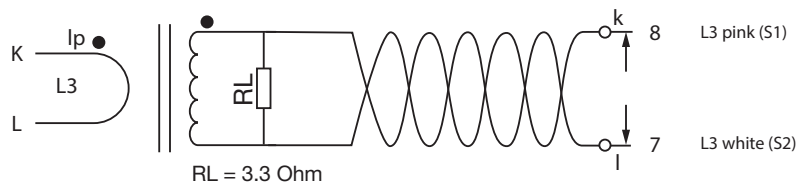
STRUCTURE OF THE PRODUCT DESIGNATION

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

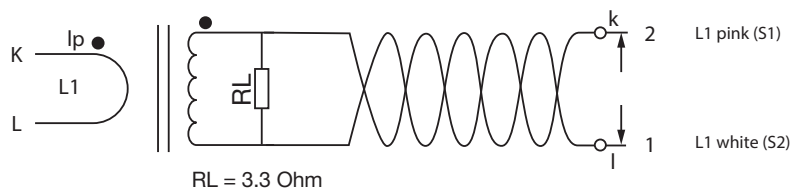
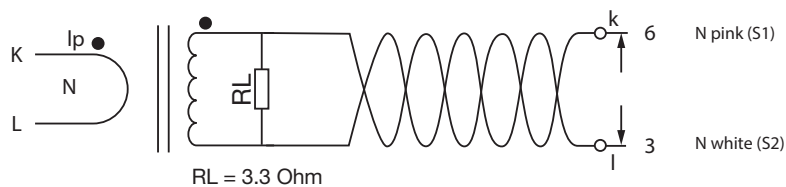
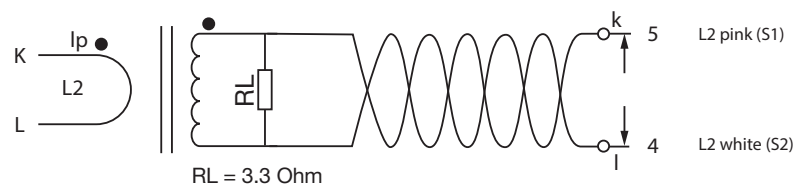
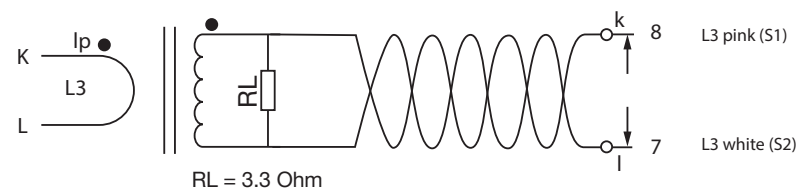


CONNECTION

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



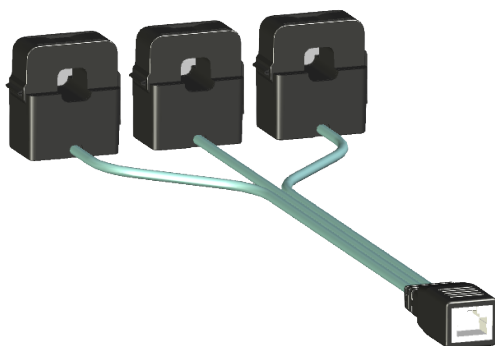
SET-RJ45-CT-SC-xxx-xx-xxx-P3+N - 4 current transformers



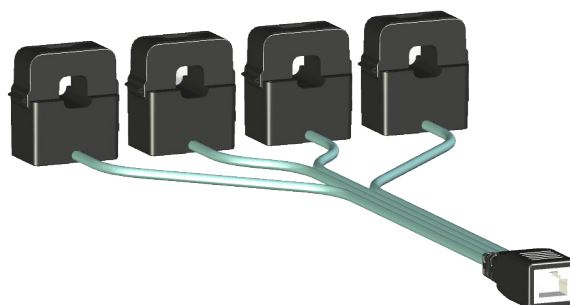
TECHNICAL DATA & DIMENSIONS

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	
Accuracy class	0.5	
Phase error at nominal current	≤1°	
Working temperature	-40 °C to 65 °C (-40 °F to 149 °F)	
Storage temperature	-45 °C to 85 °C (-49 °F to 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)	

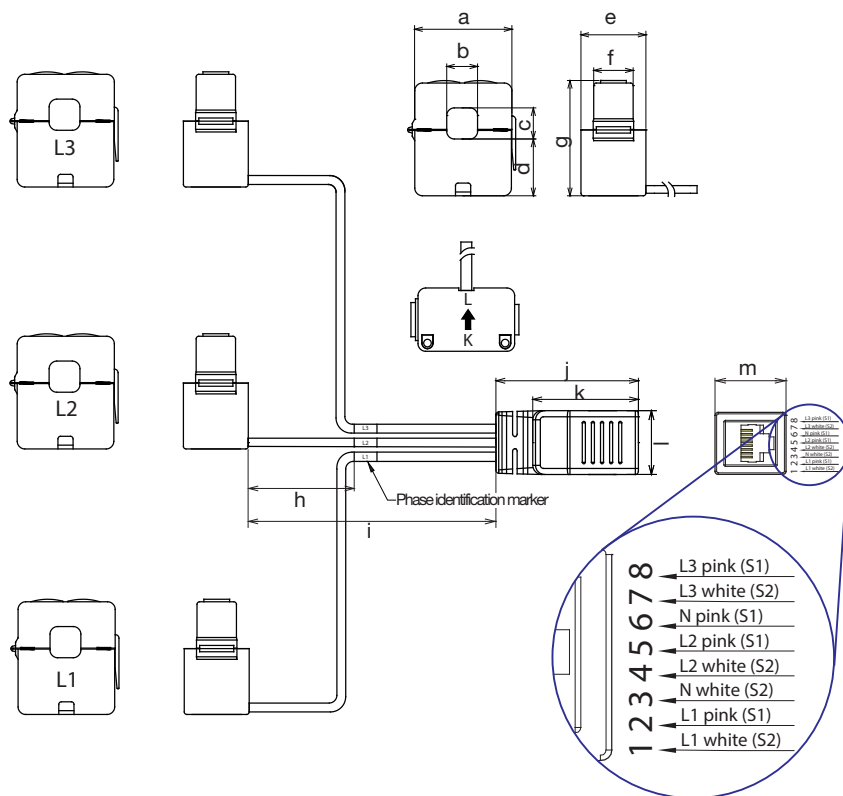
SET-RJ45-CT-SC-012-40-xxx-P3



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



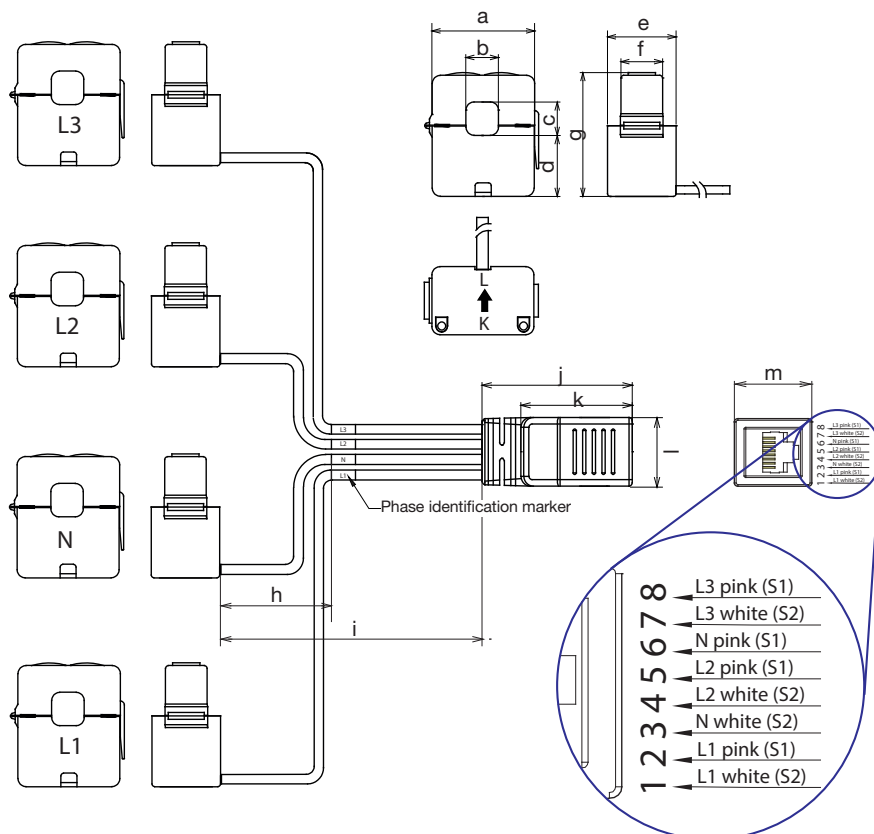
SET-RJ45-CT-SC-012-40-75-P3



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)

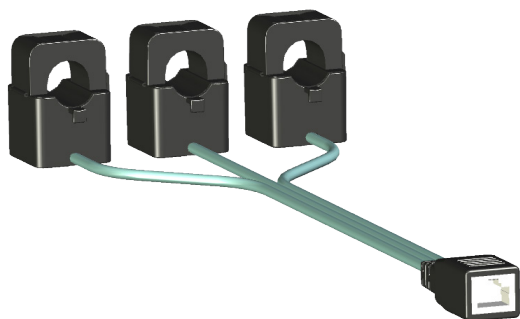
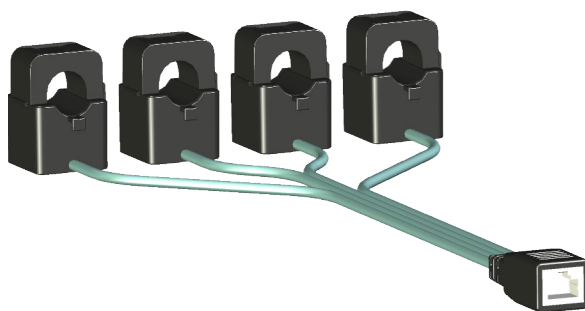
SET-RJ45-CT-SC-012-40-75-P3+N



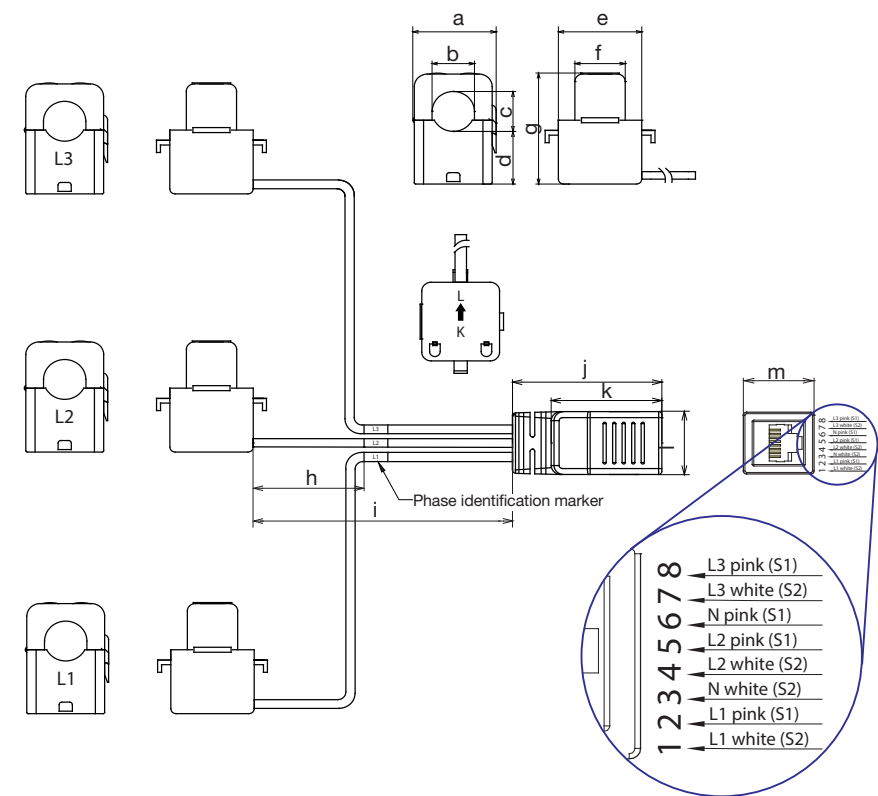
Dimensions in mm (in)

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	$N_p:N_s=1:3000$	
Output signal	333 mV	
Short time thermal current for 1 sec	16 kA	
Accuracy class	0.5	
Phase error at nominal current	$\leq 1^\circ$	
Working temperature	$-40\text{ }^\circ\text{C}$ to $65\text{ }^\circ\text{C}$ ($-40\text{ }^\circ\text{F}$ to $149\text{ }^\circ\text{F}$)	
Storage temperature	$-45\text{ }^\circ\text{C}$ to $85\text{ }^\circ\text{C}$ ($-49\text{ }^\circ\text{F}$ to $185\text{ }^\circ\text{F}$)	
Dielectric strength	2,5 kV / 1 mA / 1 min	
Insulation class	A ($105\text{ }^\circ\text{C}$ / $221\text{ }^\circ\text{F}$)	
Frequency	50 - 60 Hz	
Insulation resistance	DC 500 V / 100 M Ω 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 $\pm$ 20 mm (15.75 $\pm$ 0.78 in)	

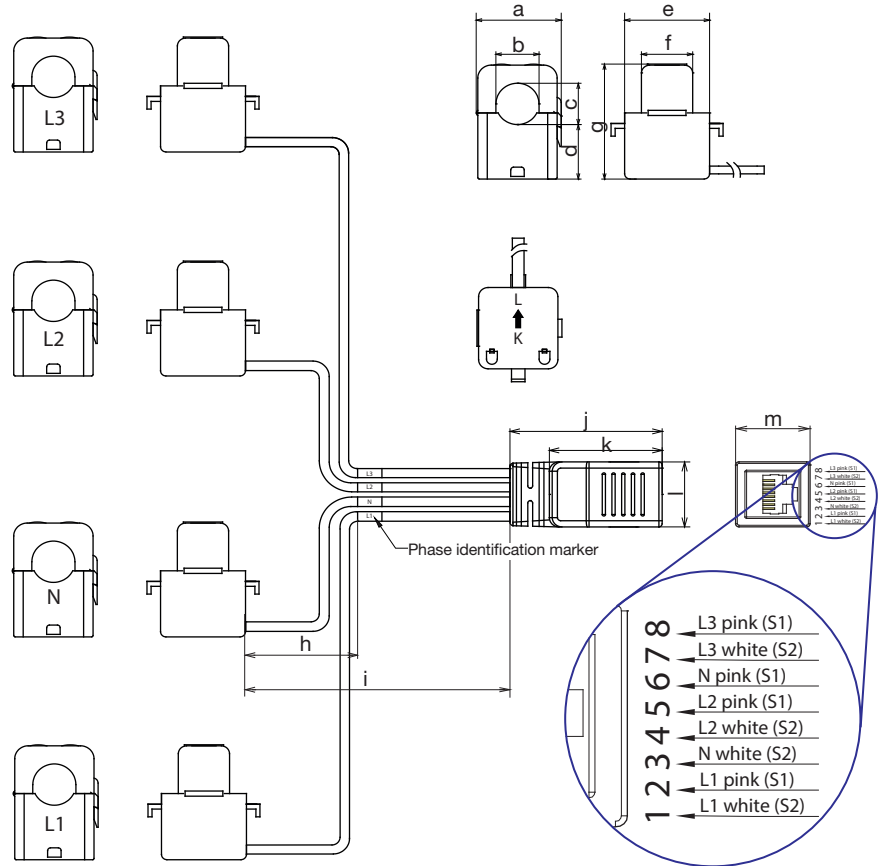
SET-RJ45-CT-SC-016-40-xxx-P3**SET-RJ45-CT-SC-016-40-xxx-P3+N**

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)

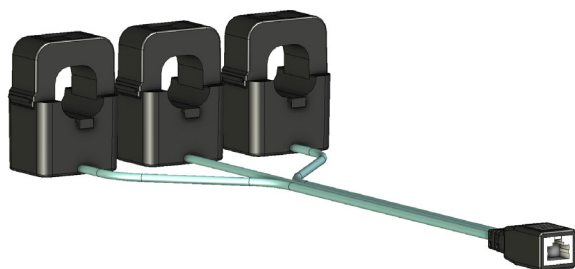
SET-RJ45-CT-SC-016-40-100-P3+N



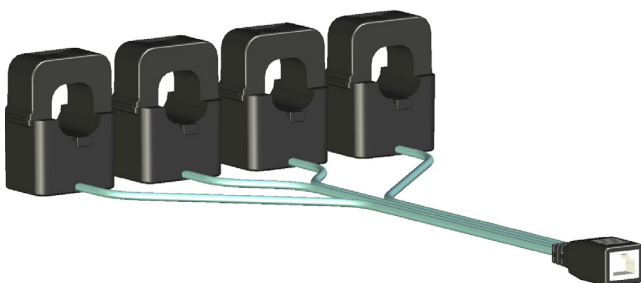
Dimensions in mm (in)	
a	31,5±0,5 (1.24±0.02)
b	16,0 (0.63)
c	17,0 (0.67)
d	21,5 (0.85)
e	32,0±0,3 (1.26±0.01)
f	19,0 (0.75)
g	46,0±0,5 (1.81±0.02)
h	100,0±20 (3.94±0.78)
i	400,0±20 (15.75±0.78)
j	47,0 (1.85)
k	35,0 (1.38)
l	21,0 (0.83)
m	19,0 (0.75)

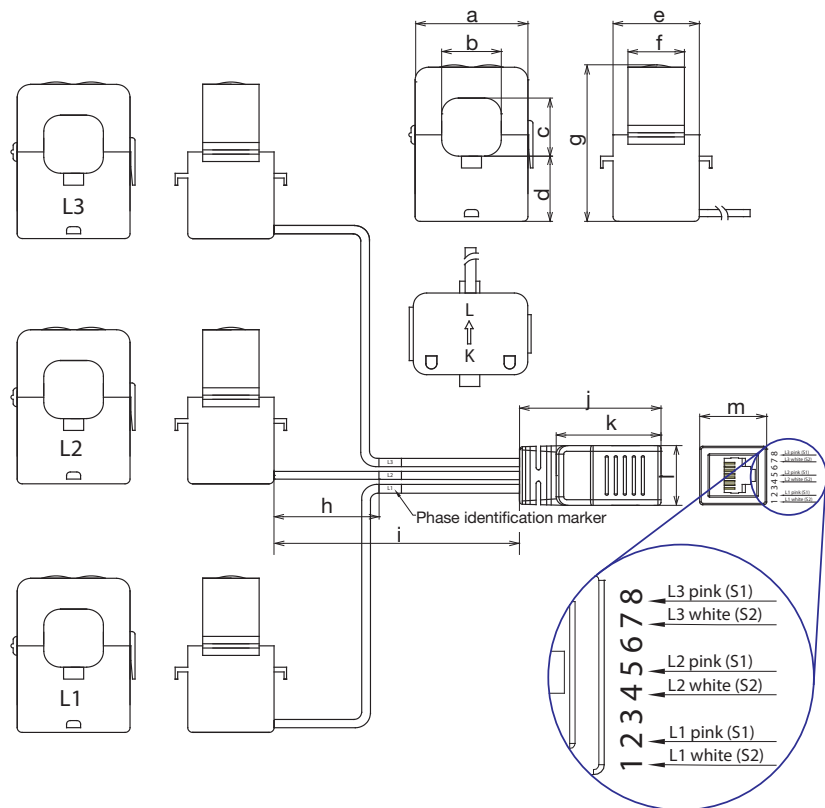
Type	SET-RJ45-CT-SC-024-40-250-P3	SET-RJ45-CT-SC-024-40-250-P3+N
Article number	1503906	1504906
Number of current transformers	3	4
Approx. weight	603 g (1.33 lb)	790 g (1.74 lb)
Primary current	250 A	
Turns ratio	Np:Ns=1:2475	
Output signal	333 mV	
Short time thermal current for 1 sec	40 kA	
Accuracy class	0.5	
Phase error at nominal current	$\leq 0.5^\circ$	
Working temperature	-40 °C to 65 °C (-40 °F to 149 °F)	
Storage temperature	-45 °C to 85 °C (-49 °F to 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

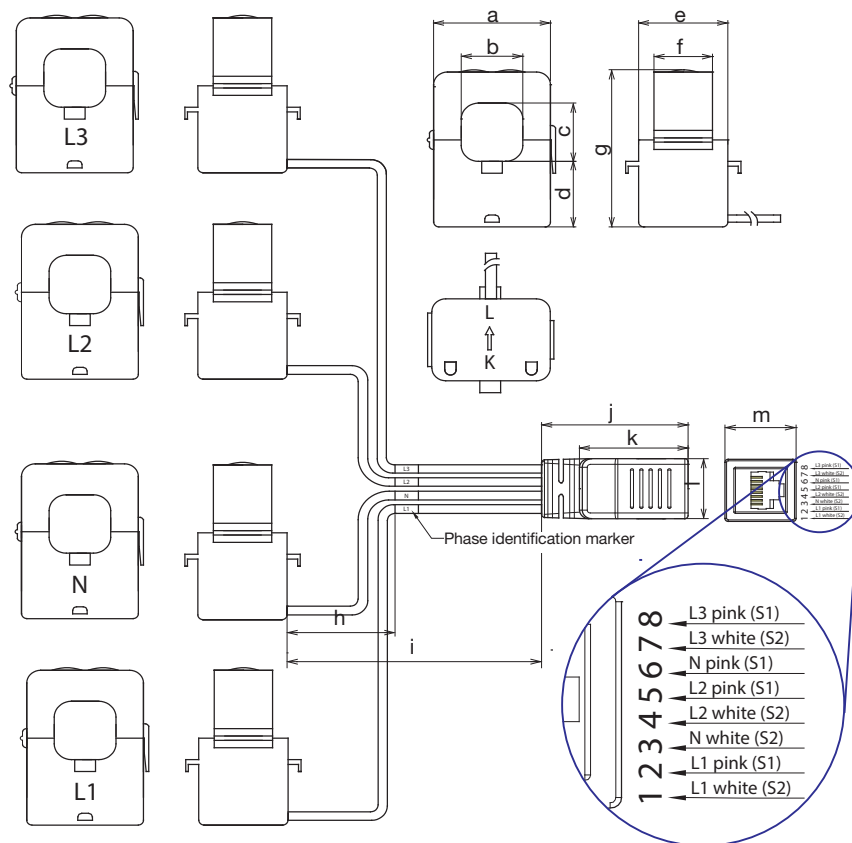


SET-RJ45-CT-SC-024-40-xxx-P3+N



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

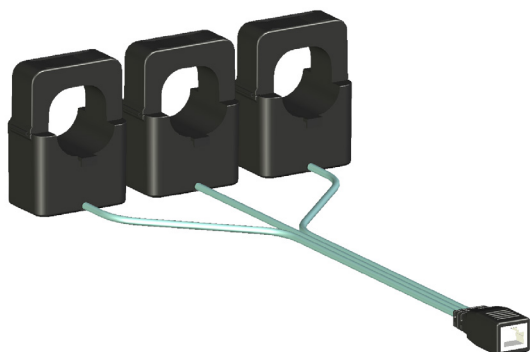
Dimensions in mm (in)	
a	45,5±0,5 (1.79±0.02)
b	23,8±0,3 (0.94±0.01)
c	24,5 (0.96)
d	27,8 (1.09)
e	34,4±0,5 (1.35±0.02)
f	22,5 (0.89)
g	65,5±0,5 (2.58±0.02)
h	100,0±20 (3.94±0.78)
i	400,0±20 (15.75±0.78)
j	47,0 (1.85)
k	35,0 (1.38)
l	21,0 (0.83)
m	19,0 (0.75)

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

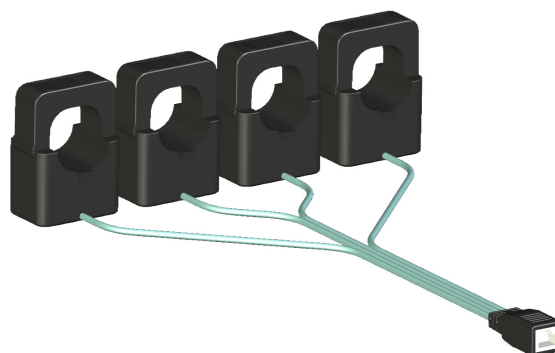
Dimensions in mm (in)	
a	45,5±0,5 (1.79±0.02)
b	23,8±0,3 (0.94±0.01)
c	24,5 (0.96)
d	27,8 (1.09)
e	34,4±0,5 (1.35±0.02)
f	22,5 (0.89)
g	65,5±0,5 (2.58±0.02)
h	100,0±20 (3.94±0.78)
i	400,0±20 (15.75±0.78)
j	47,0 (1.85)
k	35,0 (1.38)
l	21,0 (0.83)
m	19,0 (0.75)

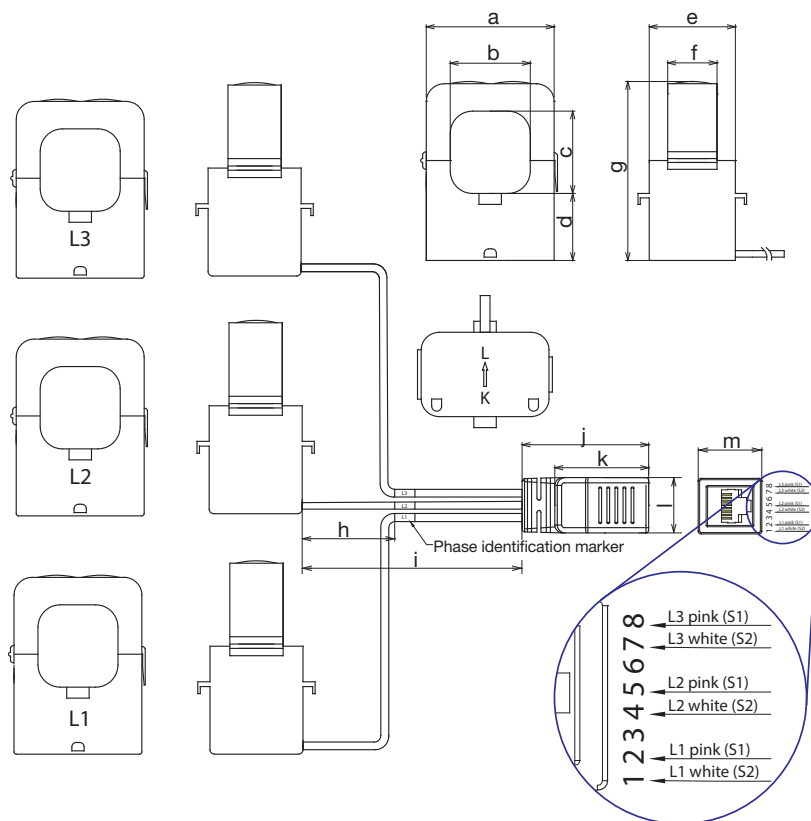
Type	SET-RJ45-CT-SC-036-40-400-P3	SET-RJ45-CT-SC-036-40-400-P3+N	SET-RJ45-CT-SC-036-40-600-P3	SET-RJ45-CT-SC-036-40-600-P3+N
Article number	1503907	1504907	1503908	1504908
Number of current transformers	3	4	3	4
Approx. weight	880 g (1.94 lb)	1140 g (2.51 lb)	960 g (2.17 lb)	1240 g (2.73 lb)
Primary current	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			
Accuracy class	0.5			
Phase error at nominal current	≤0.5°			
Working temperature	-40 °C to 65 °C (-40 °F to 149 °F)		-40 bis 60 °C (-40 °F to 140 °F)	
Storage temperature	-45 °C to 85 °C (-49 °F to 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

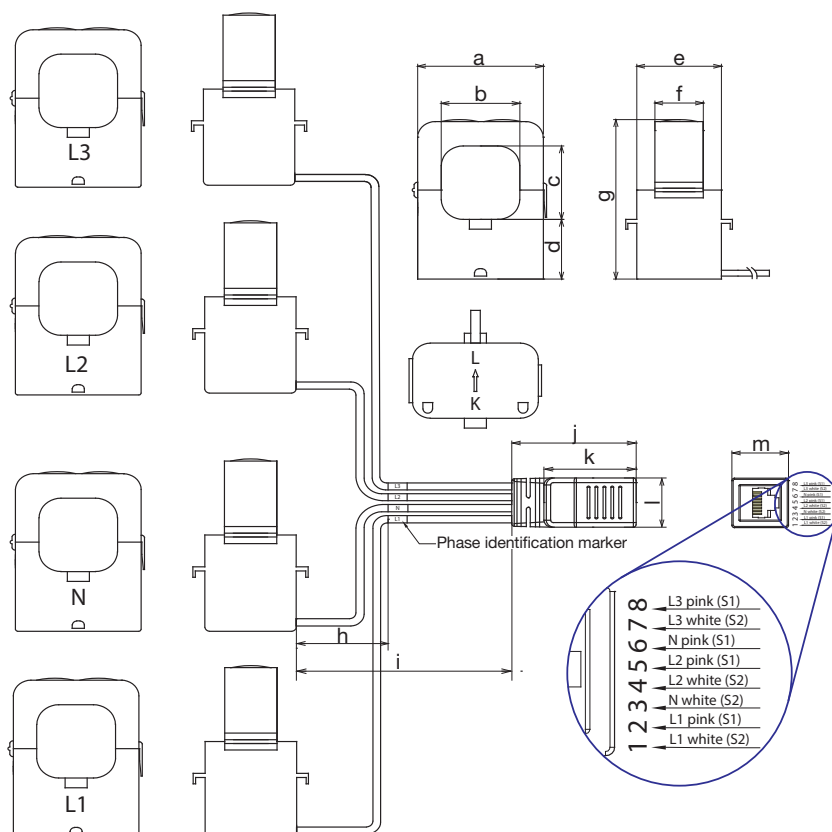


SET-RJ45-CT-SC-036-40-xxx-P3+N



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)

Janitza

Janitza electronics GmbH
Vor dem Polstück 6 | 35633 Lahnau
Germany

Tel. +49 6441 9642-0
info@janitza.com | www.janitza.com