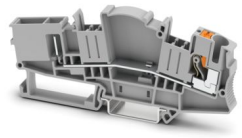
PTMED 6-CT/1P - Feed-through terminal block

3212301

https://www.phoenixcontact.com/ae/products/3212301

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Feed-through terminal block, nom. voltage: 500 V, nominal current: 30 A, connection method: Push-in connection, 1 level, Rated cross section: 6 mm^2, cross section: 0.5 mm^2 - 10 mm^2 , color: gray

Product description

Test disconnect terminal block with plug-in zone for current transformer short circuit plug PPCT 6/...

Your advantages

- Time-saving conductor connection thanks to tool-free direct-connection technology
- Convenient plugging with lower insertion force
- High conductor pull-out forces due to the spring design
- Vibration-resistant and maintenance-free conductor connection
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Optimized for manual and automated wiring

Commercial data

Item number	3212301
Packing unit	50 pc
Minimum order quantity	1 pc
Sales key	BE2
Product key	BE2233
GTIN	4046356623186
Weight per piece (including packing)	19.885 g
Weight per piece (excluding packing)	19 g
Customs tariff number	85369010
Country of origin	PL

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Technical data

Product properties

Product type	Test disconnect terminal block
Product family	PTME
Number of connections	2
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.31 W

Connection data

Number of connections per level	2
Nominal cross section	6 mm²

1 level

Connection method	Push-in connection
Stripping length	12 mm
Internal cylindrical gage	A5
Connection in acc. with standard	IEC 61984
Conductor cross-section rigid	0.5 mm² ... 10 mm²
Cross section AWG	20 ... 8 (converted acc. to IEC)
Conductor cross-section flexible	0.5 mm² ... 6 mm²
Conductor cross-section, flexible [AWG]	20 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² ... 6 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.5 mm² ... 6 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm² ... 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 1.5 mm²
Nominal current	30 A
Maximum load current	30 A (with 10 mm² conductor cross-section)
Nominal voltage	500 V
Nominal cross section	6 mm²

1 level Connection cross sections directly pluggable

Conductor cross-section rigid	1 mm² ... 10 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	1 mm² ... 6 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	1 mm² ... 6 mm²

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Dimensions

Width	8.2 mm
End cover width	2.2 mm
Height	114.9 mm
Depth on NS 35/7,5	49.6 mm
Depth on NS 35/15	57.1 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Electrical tests

Surge voltage test

Test voltage setpoint	4.8 kV
Result	Test passed
Short-time withstand current 4 mm²	0.5 kA
	0.15 kA
	1.25 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.21 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes

Mechanical tests

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Attachment on the carrier

DIN rail/fixing support	NS 35
Test force setpoint	5 N
Result	Test passed

Environmental and real-life conditions

Service life

Insertion/withdrawal cycles	100

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Long life test category 1, class B, body mounted
Frequency	f_1 = 5 Hz to f_2 = 150 Hz
ASD level	1.857 $(m/s^2)^2/Hz$
Acceleration	0.8g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

Connection in acc. with standard	IEC 61984

Mounting

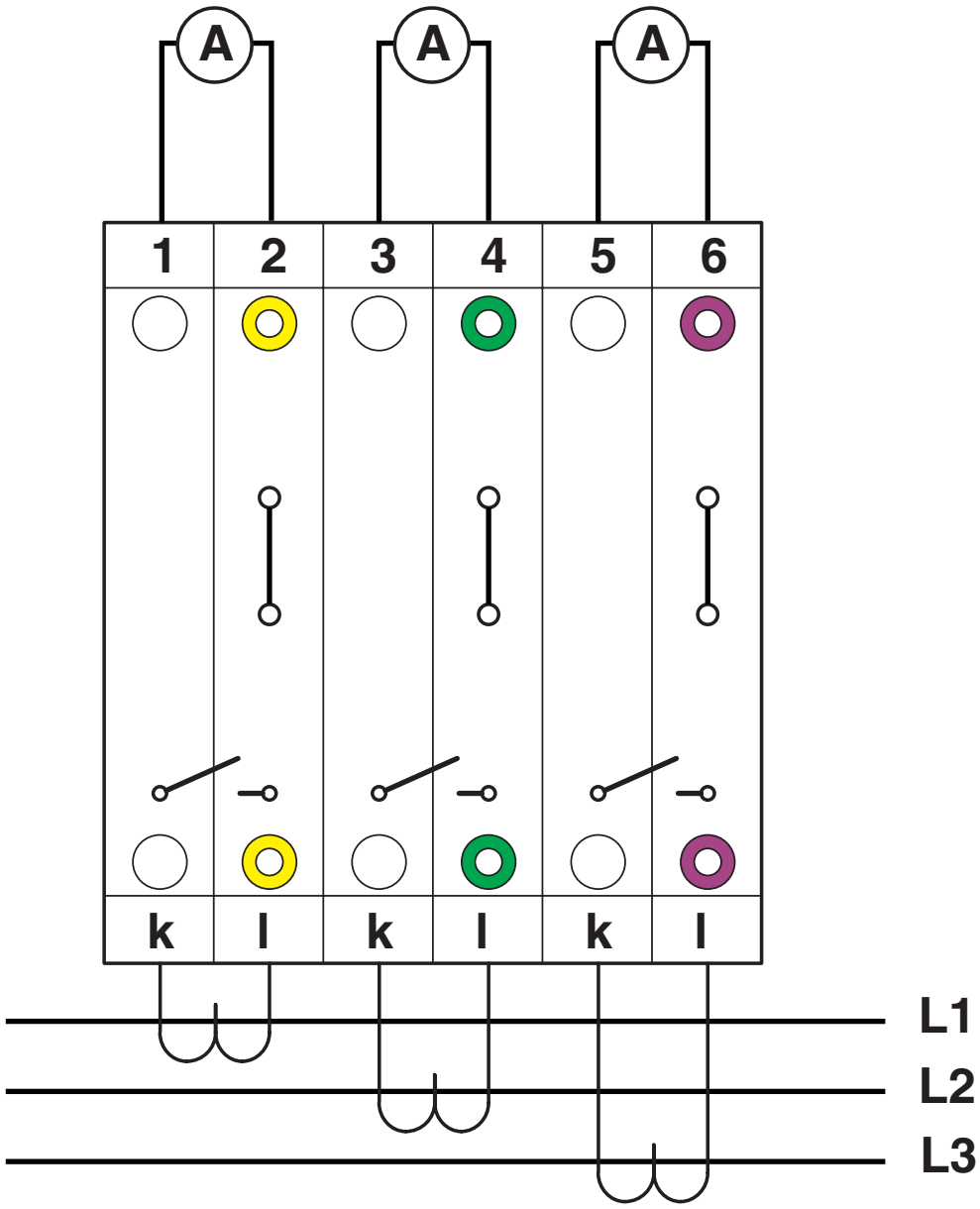
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Mounting type	NS 35/7,5
	NS 35/15

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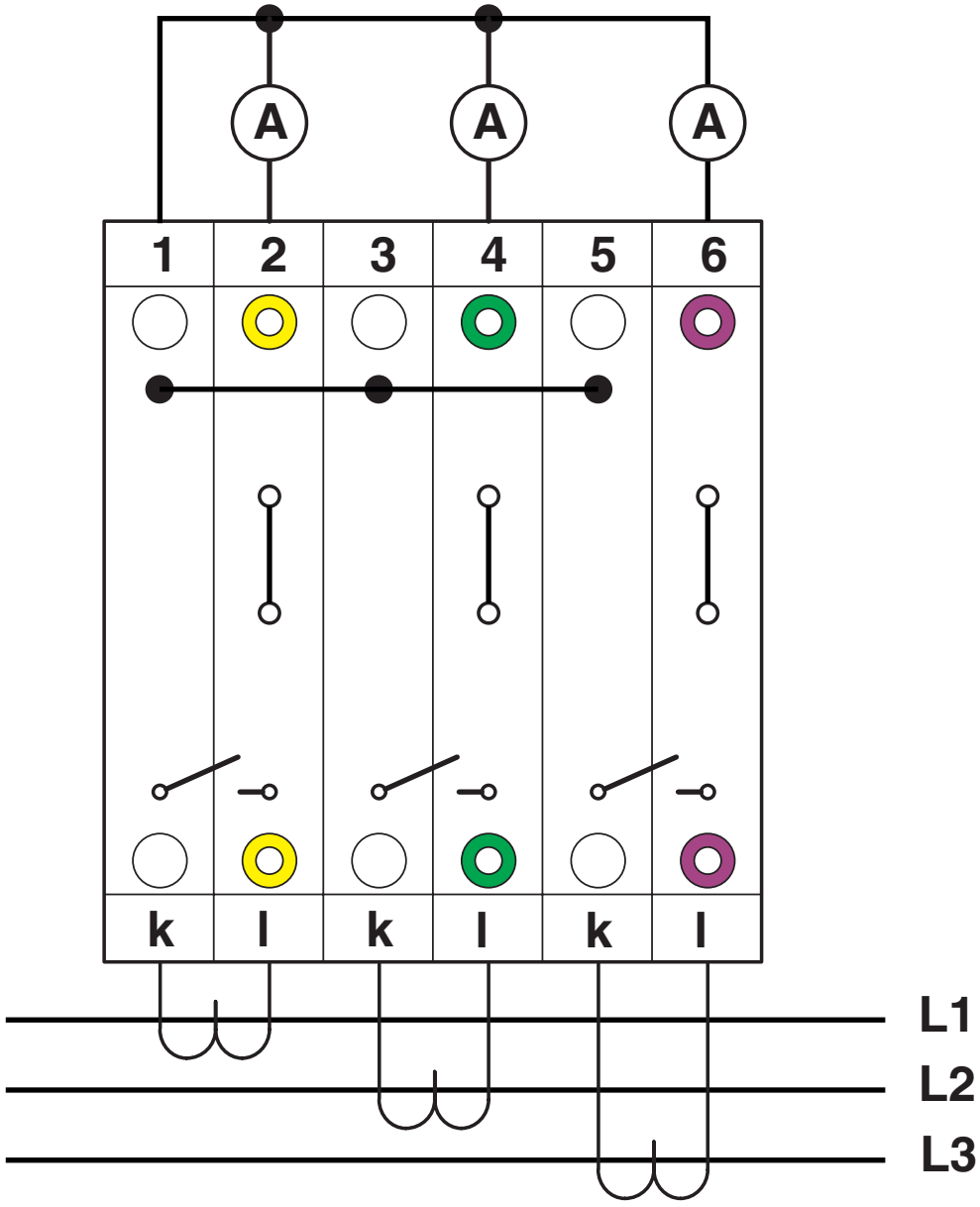
Drawings

Connection diagram



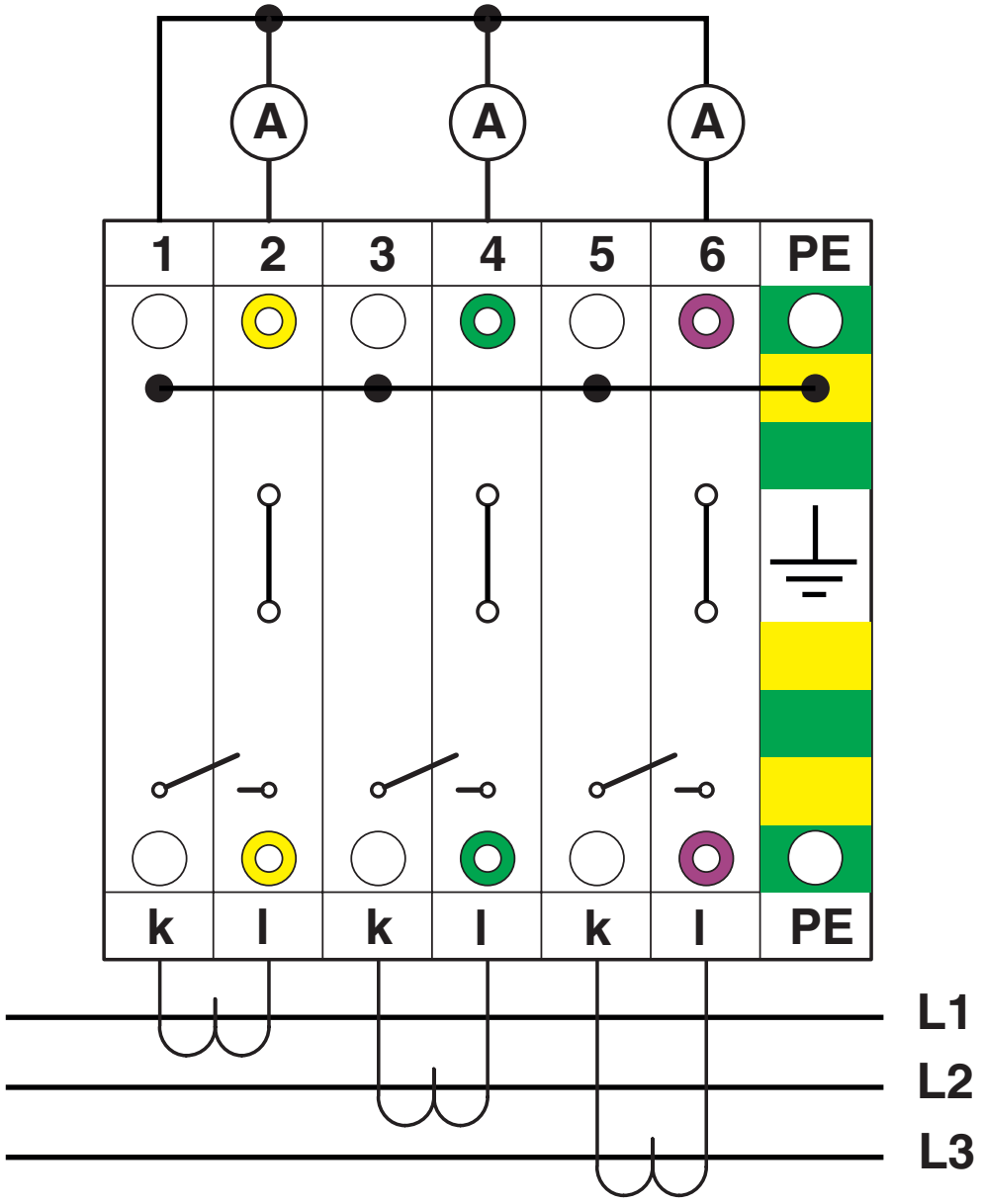
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Connection diagram



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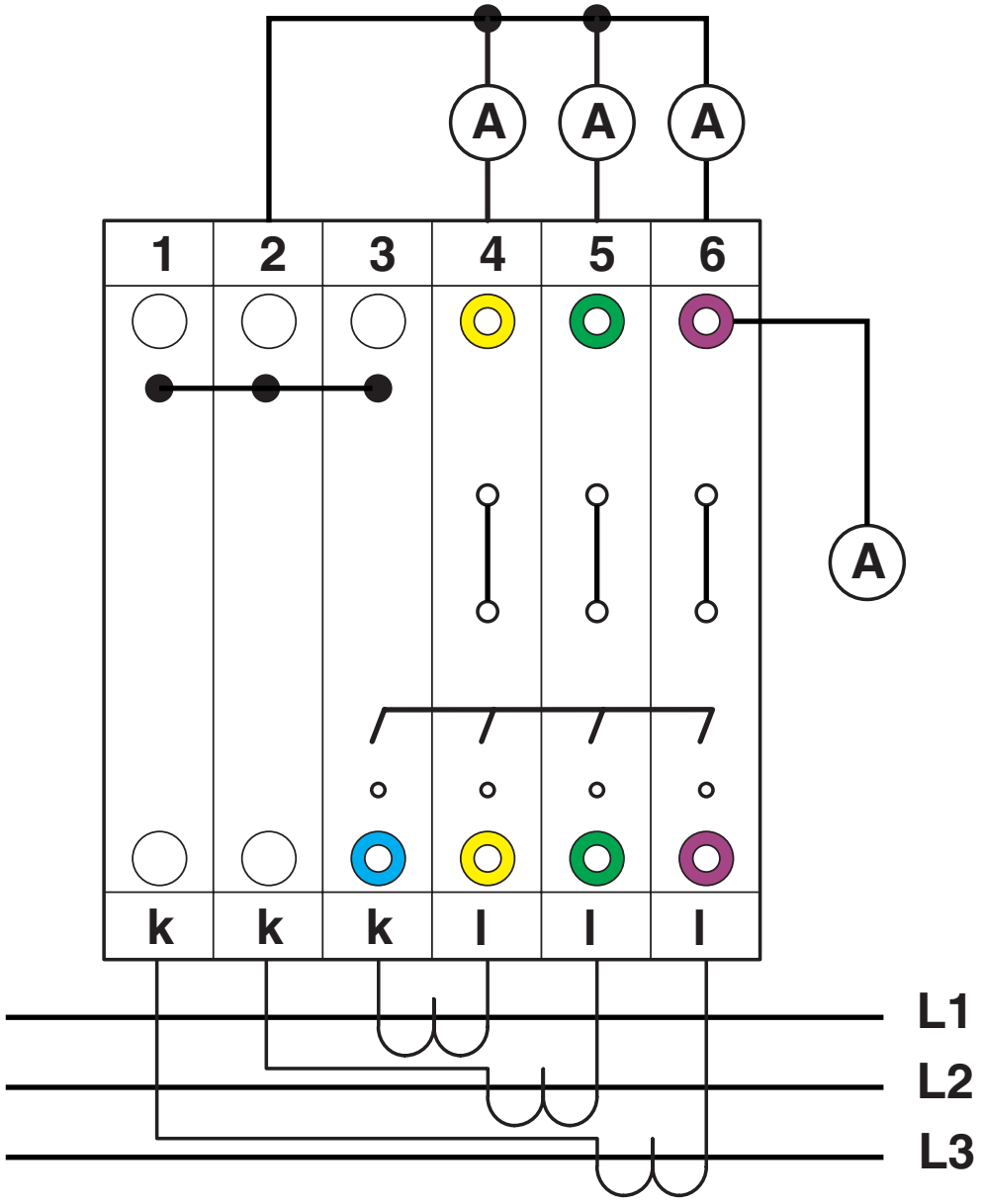
Connection diagram



with PE terminals having the same contours

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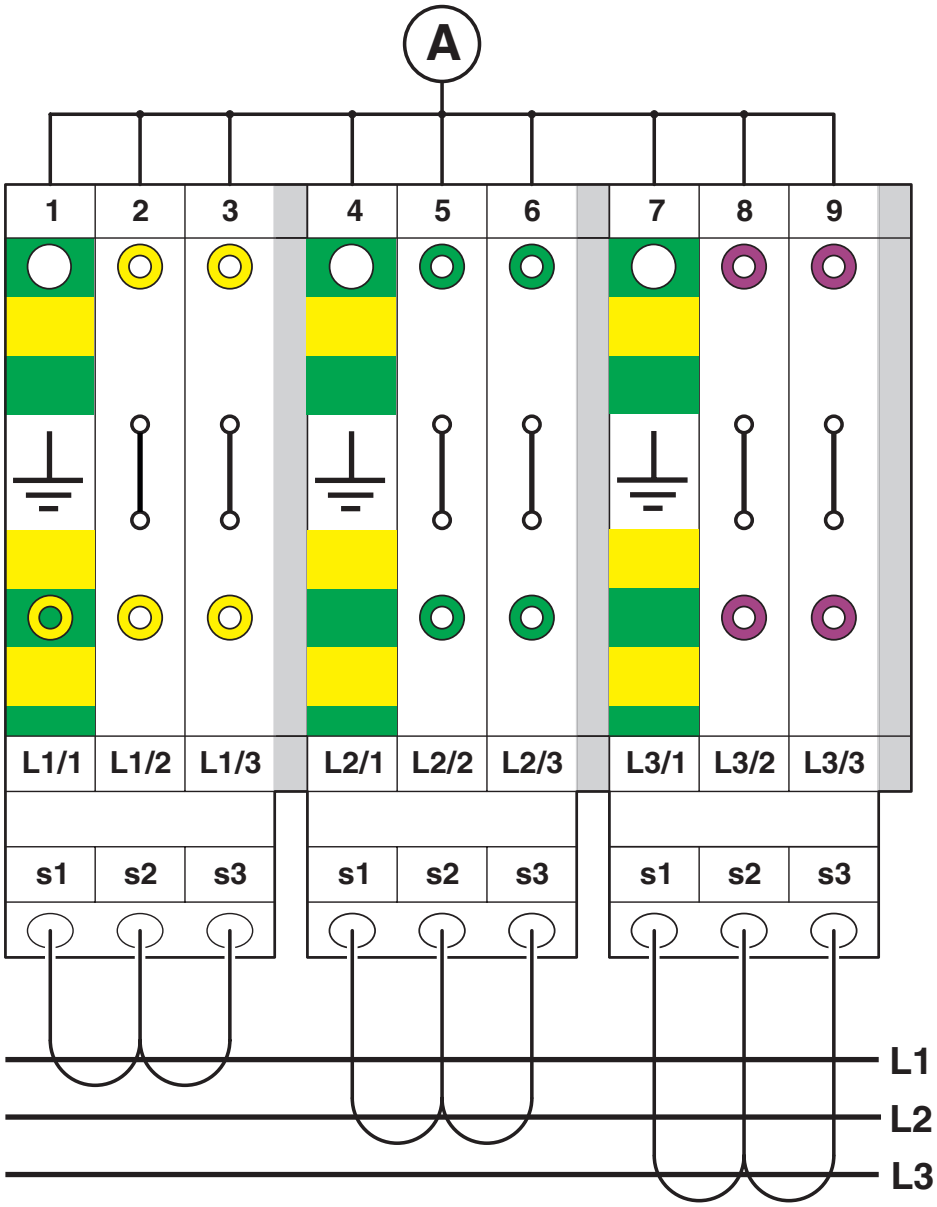
Connection diagram



phase to phase

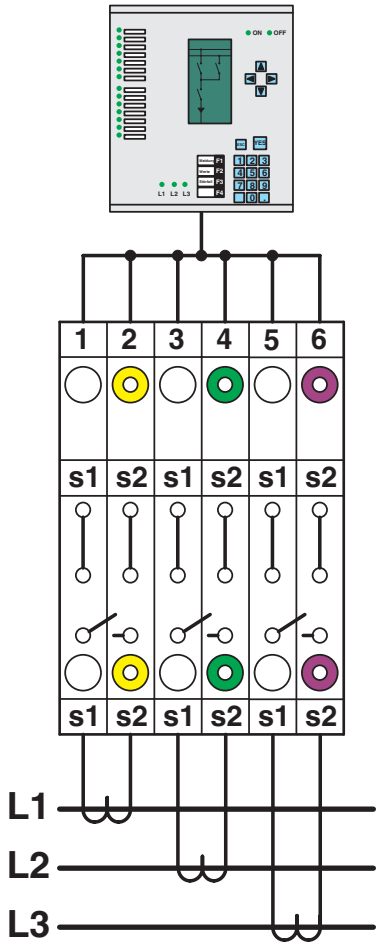
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Connection diagram



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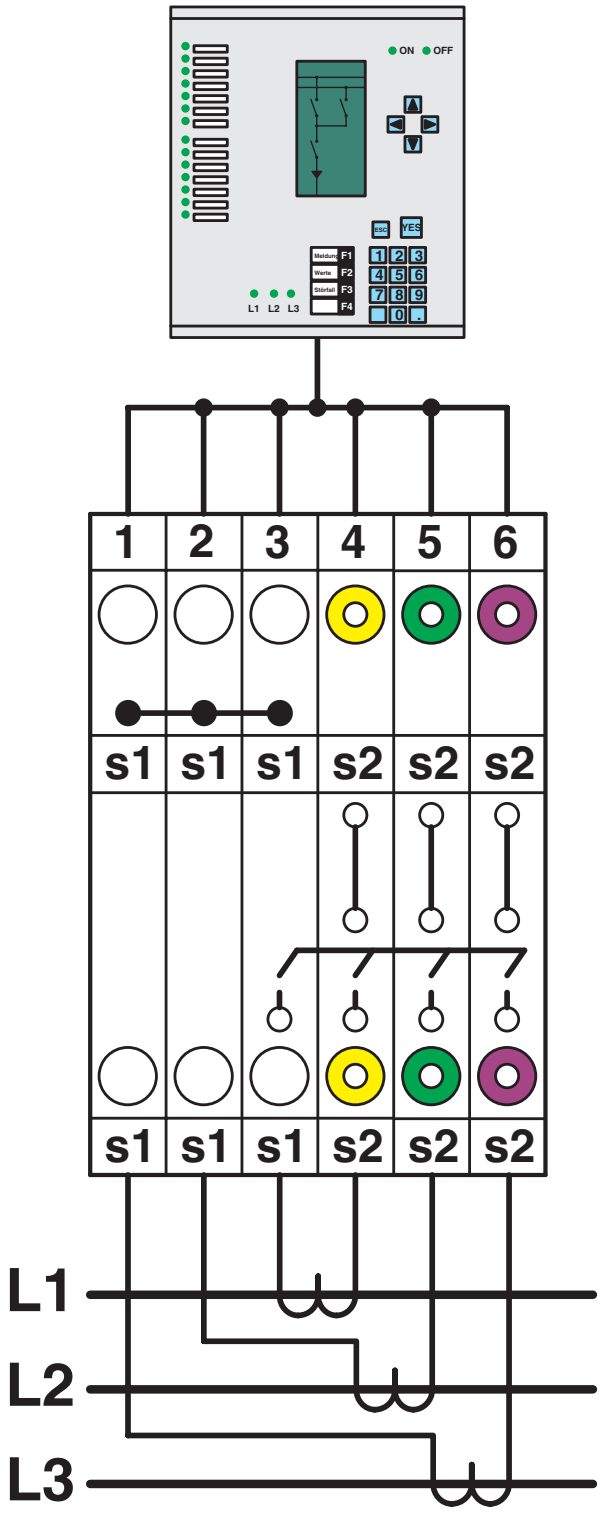
Schematic diagram



Simple three-phase current transformer set

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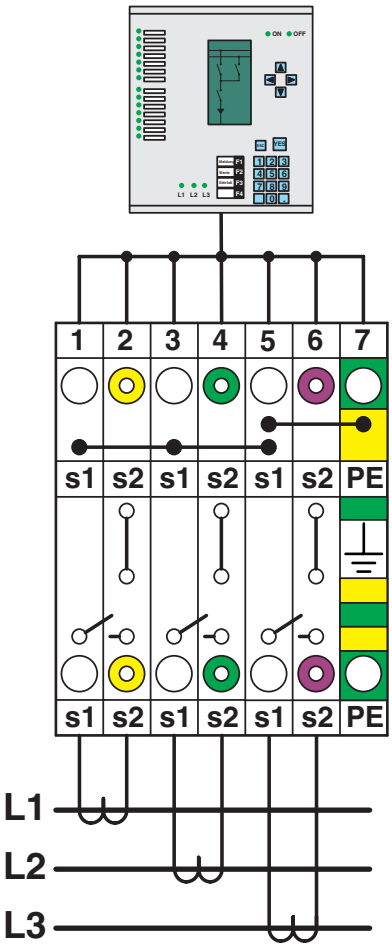
Schematic diagram



Interlinked three-phase current transformer set

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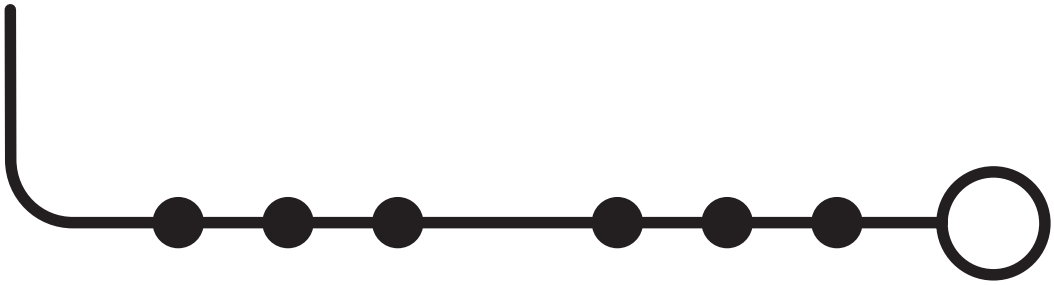
Schematic diagram



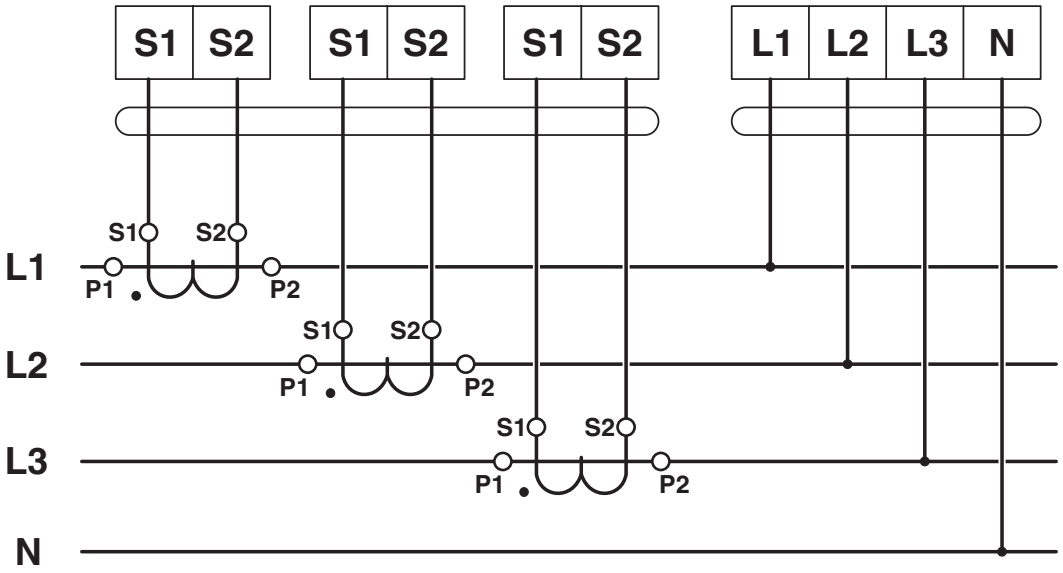
Interlinked three-phase current transformer set with grounded star point

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Circuit diagram

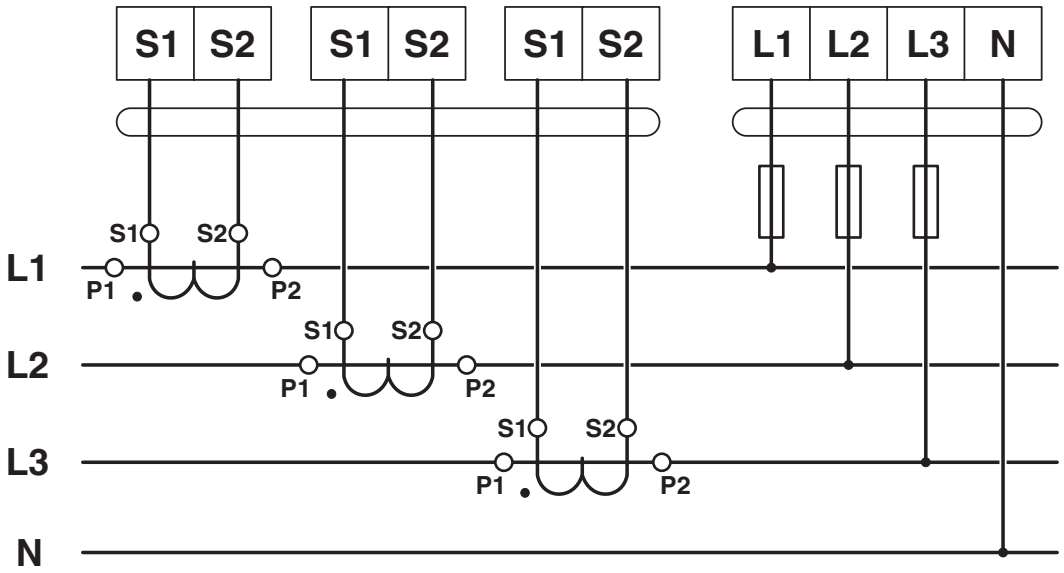


Circuit diagram



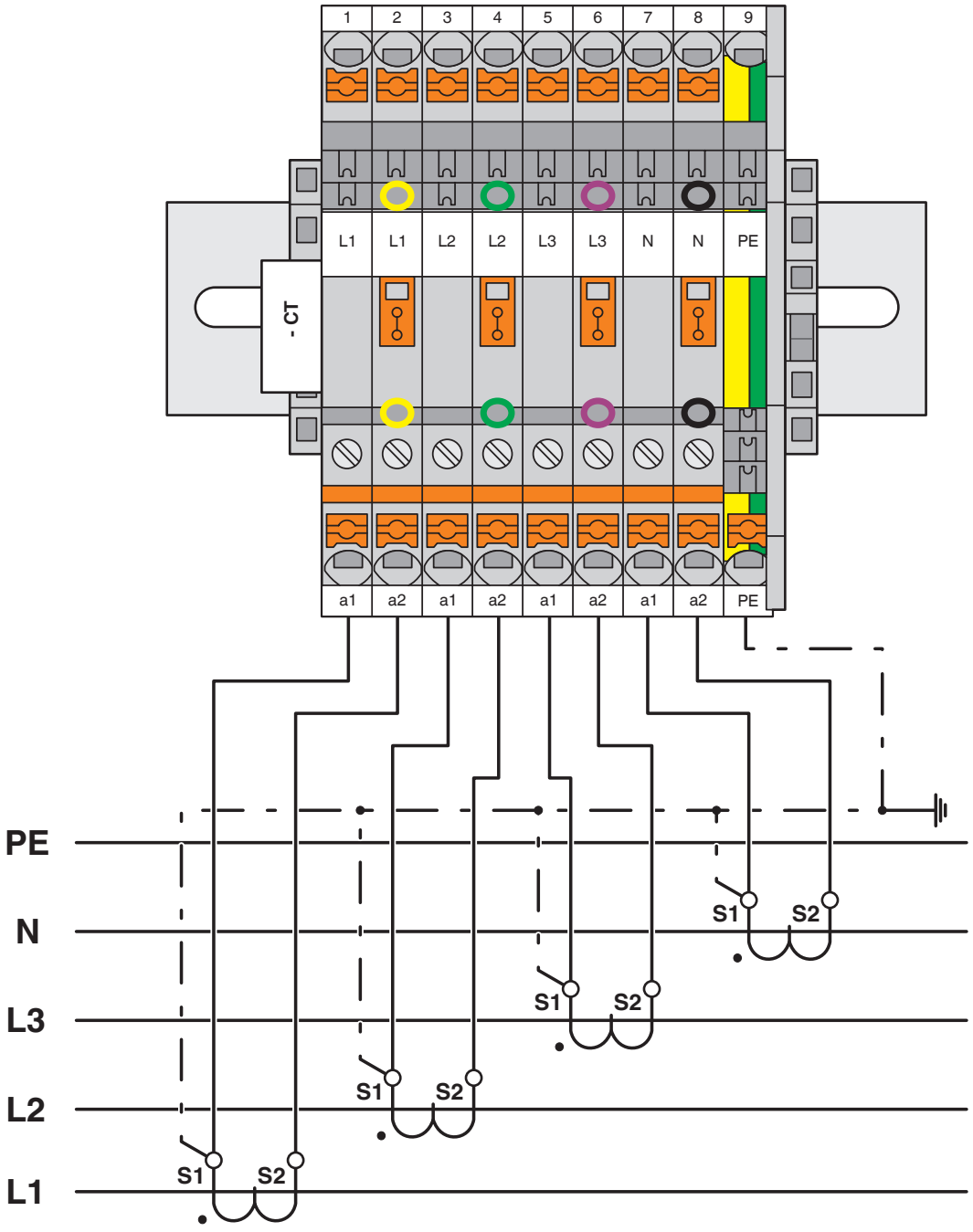
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Circuit diagram



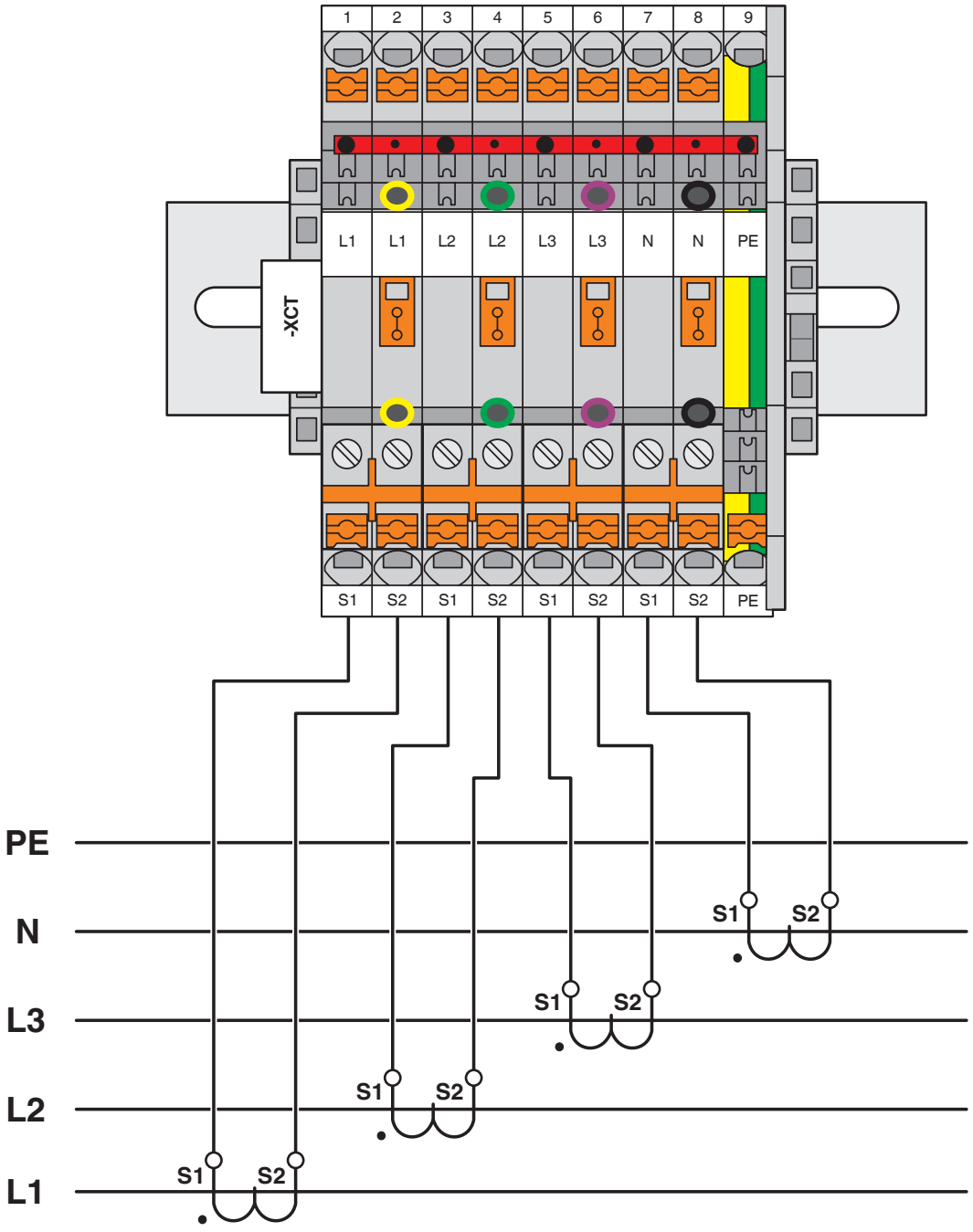
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Circuit diagram



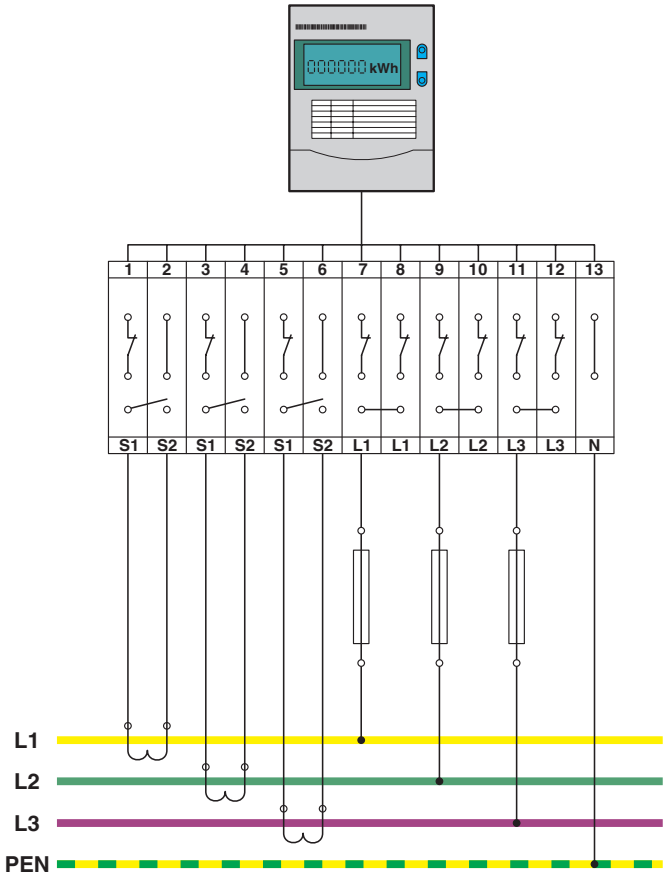
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Circuit diagram



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Approvals

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CSA
Approval ID: 2030668

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	300 V	30 A	20 - 8	-
C				
	300 V	30 A	20 - 8	-
D				
	600 V	5 A	20 - 8	-

EAC
Approval ID: RU C-DE.BL08.B.00644

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	300 V	30 A	20 - 8	-
C				
	300 V	30 A	20 - 8	-
D				
	600 V	5 A	20 - 8	-

EAC
Approval ID: KZ7500651131219505

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Classifications

ECLASS

ECLASS-13.0	27250109
ECLASS-15.0	27250109

ETIM

ETIM 9.0	EC000902

UNSPSC

UNSPSC 21.0	39121400

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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PHOENIX CONTACT Middle East FZ LLC
1201N-1206N, Dubai Science Park Towers – North
P.O. Box 345002, Dubai, United Arab Emirates
(+971) 4 437-0324
info-me@phoenixcontact.com

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