

UTWE 6-2/A7 - Plug-in test socket



3069410

<https://www.phoenixcontact.com/us/products/3069410>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug-in test socket, VDE coded type A7, nom. voltage: 400 V, nominal current: 24 A, number of connections: 14, number of positions: 7, connection method: Screw connection, Rated cross section: 6 mm², 1 level, cross section: 0.2 mm² - 10 mm², mounting type: Panel mounting, color: gray

Your advantages

- Space saving, thanks to compact, modular plug-in test sockets
- Cost-effective, thanks to the tailored, modular design and use of standardized CLIPLINE complete accessories
- Maximum safety with leading and automatic transformer short circuit
- The integrated, robust switch contact is designed for the most stringent demands, and the use of high-quality materials ensures the transmission of signal currents, even after multiple actuations

Commercial data

Item number	3069410
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BE6112
GTIN	4046356943086
Weight per piece (including packing)	271.1 g
Weight per piece (excluding packing)	271.1 g
Country of origin	PL

UTWE 6-2/A7 - Plug-in test socket



3069410

<https://www.phoenixcontact.com/us/products/3069410>

Technical data

Product properties

Product type	Test terminal strip
Product family	FAME 2
Number of positions	7
Pitch	8.2 mm
Number of connections	14
Number of rows	1
Potentials	7

Insulation characteristics

Overvoltage category	III
----------------------	-----

Electrical properties

Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	1.31 W
Test surge voltage	5 kV

Connection data

Number of connections per level	14
Nominal cross section	6 mm ²

1 level

Connection method	Screw connection
Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm
Stripping length	12 mm
Internal cylindrical gage	A5
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.2 mm ² ... 10 mm ²
Cross section AWG	24 ... 8 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm ² ... 10 mm ²
Conductor cross-section, flexible [AWG]	24 ... 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 6 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm ² ... 6 mm ²
2 conductors with same cross section, rigid	0.2 mm ² ... 2.5 mm ²
2 conductors with same cross section, flexible	0.2 mm ² ... 2.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 2.5 mm ²
Nominal cross section	6 mm ²
Nominal current	24 A
Maximum load current	30 A (with 10 mm ² conductor cross-section)

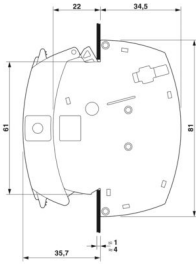
UTWE 6-2/A7 - Plug-in test socket

3069410

<https://www.phoenixcontact.com/us/products/3069410>

Nominal voltage	400 V AC/DC
-----------------	-------------

Dimensions

Dimensional drawing	
Width	90.2 mm
Height	100 mm
Depth	56.5 mm
Pitch	8.2 mm
Plate thickness	1 mm ... 4 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))	125 °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)	27,5 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

Temperature-rise test

Requirement temperature-rise test	Increase in temperature \leq 45 K
Result	Test passed
	300 A

UTWE 6-2/A7 - Plug-in test socket



3069410

<https://www.phoenixcontact.com/us/products/3069410>

Short-time withstand current 4 mm ²	500 A
	150 A
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

General

Terminal block mounting	0.8 Nm ... 1 Nm
-------------------------	-----------------

Mechanical data

Open side panel	No
-----------------	----

Mechanical tests

Mechanical strength

Result	Test passed
--------	-------------

Attachment on the carrier

Test force setpoint	5 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.2 mm ² / 0.2 kg
	6 mm ² / 1.4 kg
	10 mm ² / 2 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

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 2, bogie-mounted
Frequency	f ₁ = 5 Hz to f ₂ = 250 Hz
ASD level	6.12 (m/s ²) ² /Hz
Acceleration	3.12g

UTWE 6-2/A7 - Plug-in test socket



3069410

<https://www.phoenixcontact.com/us/products/3069410>

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	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Ambient conditions

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 (storage/transport)	30 % ... 70 %

Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
----------------------------------	---------------

Mounting

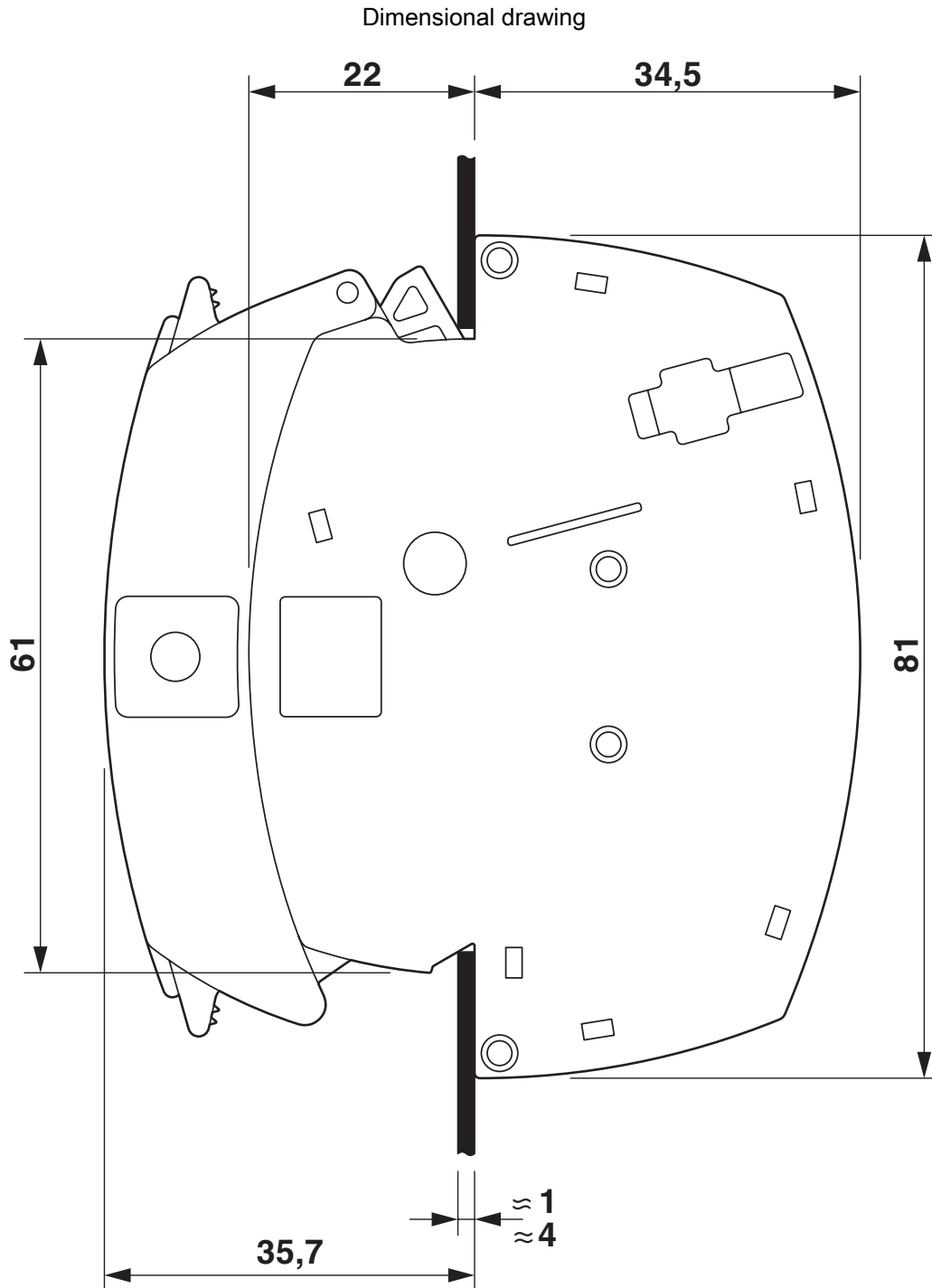
Mounting type	Panel mounting
Terminal block mounting	0.8 Nm ... 1 Nm

UTWE 6-2/A7 - Plug-in test socket

3069410

<https://www.phoenixcontact.com/us/products/3069410>

Drawings



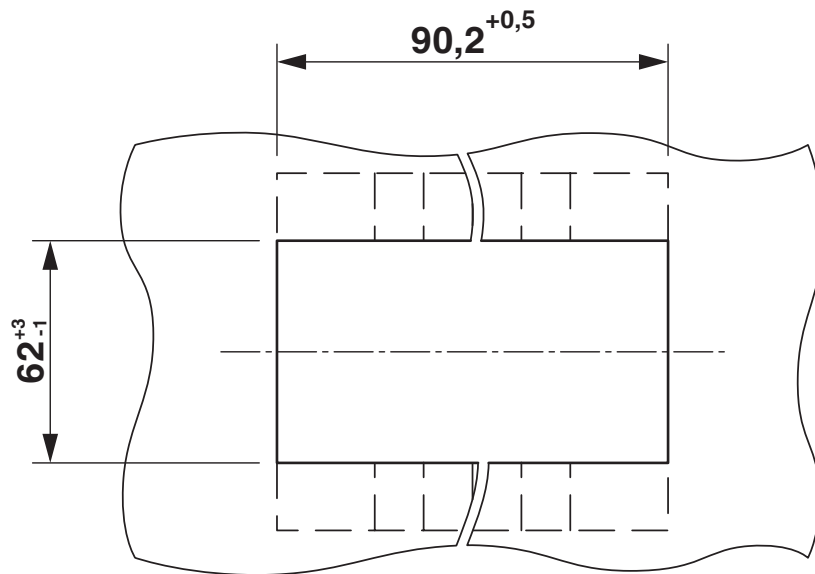
UTWE 6-2/A7 - Plug-in test socket

3069410

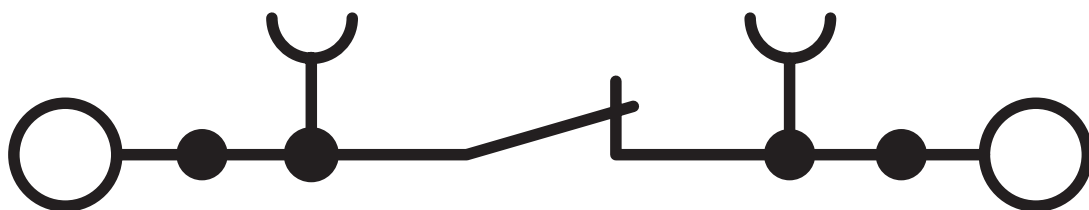
<https://www.phoenixcontact.com/us/products/3069410>



Dimensional drawing



Circuit diagram



UTWE 6-2/A7 - Plug-in test socket



3069410

<https://www.phoenixcontact.com/us/products/3069410>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3069410>



EAC

Approval ID: RU C-DE.BL08.B.00682



cULus Recognized

Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
F	690 V	30 A	24 - 8	-
C	300 V	20 A	24 - 8	-
D	600 V	5 A	24 - 8	-

UTWE 6-2/A7 - Plug-in test socket



3069410

<https://www.phoenixcontact.com/us/products/3069410>

Classifications

ECLASS

ECLASS-13.0	27250304
ECLASS-15.0	27250304

ETIM

ETIM 10.0	EC002555
-----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

UTWE 6-2/A7 - Plug-in test socket



3069410

<https://www.phoenixcontact.com/us/products/3069410>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	3c4f57f7-0af0-4ea6-a31b-ababde0b7d76

EF3.1 Climate Change

CO2e kg	1.063 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com