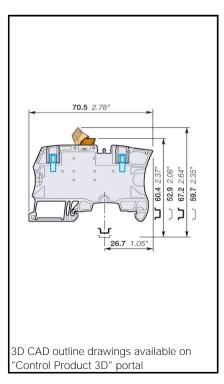
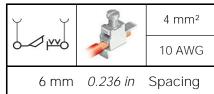
Technical Datasheet 1SNK161045D0201 Catalogue Page 1SNK161045S0201

ZS4-S-T-R1 Screw Clamp Terminal Blocks

- Ease your test operations with the 2 built-in test sockets,
- Screwdriver or hand operated disconnect blade,
- Simplify the alternated distribution thanks to the two jumper channels aligned with ZS4 feed-through terminal blocks.







Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight
					(1 pce) g
Grey	ZS4-S-T2-R1	1SNK506311R0000	3472595063116	50	14.20
Blue	ZS4-S-T2-R1-BL	1SNK506321R0000	3472595063215	50	14.20
Orange	ZS4-S-T2-R1-OR	1SNK506331R0000	3472595063314	50	14.20

Declarations and Certificates

CE CE	CB	RoHS RoHS	C FLL US USR CNR		(P	Gost R		
		BV	Rina	DNV			-	



Declarations and Certificates

C€ ○E	CE	1SND225099C1004
CB	СВ	1SND161077A0201
RoHS RoHS	RoHS	1SND230491F0205
c Al us USR CNR	USR CNR	1SND161040A0204
®	CSA	1SND161070A0203
Gost R	GOST R	1SND161005A1103
BV	BV	1SND161073A0201
∰© Bna	RINA	1SND161088A0200
® DNV	DNV	1SND161087A0200

General Information

General Information								
The following information must b	e strictly adhered	to in order to gu	arantee the termi	nal block electric	al, mechanical ai	nd environmental	performance.	
Protection	IEC 60947-1	IP20	NEMA250					
Rail	~	TH 35-7.5,						
	T	TH 35-15						
Wire stripping length		10.5 mm	0.413 in					
-								
		Screw clamp		Screw rail contact		Disconnect device		
				(Maximum val	lue)			
Operating tool		Flat screwdriv	er er					
		3.5 mm	0.138 in			3.5 mm		
Torque	6	0.6 N.m	5.31 lb.in					
		± 0.1 N.m	± 0.885 lb.in					

Material Specifications

Insulating material		Polyamide
CTI		600 V
Flammability	UL94	VO
	Grey and Dark grey color only NF F 16101	I2F2
	Other colours and colours combination	I2F3
	Needle flame test C 60615-11-5	Compliant

Connecting capacity per clam	ıp	Screw	clamp		
1 Digid Colid / Stronded conductor	Norme	IEC60947-7-1	UL1059		
1 Rigid - Solid / Stranded conductor -	Value	0.2-4 mm ²	24-10 AWG		
1 Flexible conductor -	Norme	IEC60947-7-1			
- Flexible colludctol	Value	0.22-4 mm ²			
1 Flexible conductor with non	Norme	Manufacturer data	Manufacturer data		
insulated ferrule	Value	0.22-4 mm ²	24-12 AWG		
1 Flexible conductor with insulated	Norme	Manufacturer data	Manufacturer data		
ferrule	Value	0.22-4 mm ²	24-12 AWG		
Gauge		A3-B3	3 mm		
		IEC 60947-1	0.118 in		
Ferrule maximum outer diameter or cor insulation maximum outer diameter	ductor	Ø Max.	Manufacturer data	5.5 mm	0.216 in

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm²).

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Multi Connecting capacity per clamp

2 Rigid - Solid / Stranded	Norme	IEC60947-7-1	UL1059	
conductors	Value	0.2-1.5 mm ²	24-16 AWG	
2 Flexible conductors	Norme	IEC60947-7-1		
2 Flexible conductors	Value	0.2-1.5 mm ²		
2 Flexible conductors with twin	Norme	Manufacturer data	Manufacturer data	
ferrule	Value	0.22-1.5 mm ²	24-16 AWG	

Don't mix solid and flexible conductors in the same clamp

Don't mix solid or flexible conductors of different sizes in the same clamp

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm²)

Cross section

Rated cross section	IEC60947-7-1	4 mm ²	UL1059	10 AWG
Maximum Cross section	Manufacturer data	4 mm ²	Manufacturer data	10 AWG

Electrical characteristics Current

Rated current		IEC60947-7-1	26 A	
	Field and factory wiring Cat.2	UL 1059	26 A	
	Factory wiring Cat.1	UL 1059	26 A	
		CSA-C-22.2 n°158		
Rated short-time withstand current 1 s (Icw)		IEC60947-7-1	480 A	
Short-time withstand current		Manufacturer data		
		Manufacturer data		
Rated short-circuit withstand current		CSA-C-22.2 n°158		
Max. current (45° temperature increase) / Max. cross section (mm²)		Manufacturer data	26 A	4 mm ²
Maximum short circuit current (1s)		Manufacturer data	480 A	•

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR		UL 1059	
With the following configurations:			
	Suitable conductor wire range		
	Maximum voltage		
	Fuse type / Fuse rating	J	
		Т	
		RK1	
		RK5	
		G	
		CC	

Voltage

voltago		
Rated voltage	IEC 60947-1	400 V
Rated voltage	UL 1059	150 V
Use Group	UL 1059	B, C
Rated voltage	CSA-C-22.2 n°158	150 V
Rated voltage Ex e	IEC/ EN 60079-7	
Rated impulse withstand voltage	IEC 60947-1	6000 V
Dielectric test voltage	IEC 60947-1	1890 V
Pollution degree	IEC 60947-1	3
Overvoltage category	IEC 60947-1	III

Temperature range

Ambient temperature min/max	Storage	-55 +110 °C	-67 +230 °F
	Installing	-5 +40 °C	-23 +104 °F
	Service	-55 +110 °C	-67 +230 °F

Dissipated power						
Maximum dissipated power at rated current	IEC 60947	IEC 60947-1 0.8 W				
Rated power dissipation at an ambi	ent temners	ature of 23 °C - IEC 60947-7-3				
·	·	Stare of 25 C 1EC 00747 7 5				
Separate arrangement		99999				
Overload and short-circuit protection	1					
	-					
Separate arrangement						
Exclusive short-circuit protection	1	1 fuse and 4 feed-through blocks				
Compound arrangement	,					
Compound arrangement Overload and short-circuit protection						
Overload and short-circuit protection						
Compound arrangement.	,	[8]8]8]8]				
Exclusive short-circuit protection		5 fuse blocks				
Exclusive short ellegit protection	<u> </u>	3 Tuse blocks				
F						
Environmental Characteristics						
Additional climatic tests		IEO (00(0)	200	- !! - :- 4		
Dry heat			o8-2 2 Compliant rature +100 °C			
	Conditions	Temperatu Duration of te		-(
Cyclic damp heat				aliant		
Cyclic damp neat	Conditions IEC 60068-2 30 Compliant Temperature +55 °C					
	Conditions	Duration of test 2				
Cold		IEC 60068-2		nliant		
Oold						
	Conditions		Temperature -40 °C Duration of test 96 h			
Z/ABDM climatic sequence		IEC 60068-2		oliant		
2,7,122 0	Conditions	Dry heat Duration of test / Temperatu		+85 °C		
	oonanione .	Cyclic damp heat Number of cycles / Temperatu		+55 °C		
		Cold Duration of test / Temperatu		-25 °C		
	-			l		
Corrosion						
Salt mist			IEC 60068-2 11 Compliant			
	Conditions	Duration of te				
		Concentrati				
S02	-		ISO 6988 Compliant			
	Conditions	Duration of te				
		Concentrati		m³		
Sulfur dioxide		IEC 60068-2				
	Conditions	Duration of te				
Hydrogen sulfur		IEC 60068-2				
	Conditions	Duration of to				
Flowing mixed gas corrosion test		IEC 60068-2	60			
	0 1111	Ni. 100 lo o o o f +1 + + +1-	11			

Number of the test method

Duration of test

Conditions

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Vibrations

- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Sinusoidal vibrations		IEC 60068-2-6	Compliant	
	Conditions	Frequency range	10	
	-	Number of cycles		
	_	Amplitude		
	_	Acceleration	10 m/s ²	
Random vibrations and climatic sequence		IEC 60068-2-4		
	Conditions	Duration of test		
	_	Frequency range		
	_	Acceleration		
	_	Climatic cycles		
	_	Step 1-> Temperature / Duration of test		
	_	Step 2-> Temperature / Duration of test		
	=	Temperature variation per minute		

ZS4-S-T-R1 Terminal Block Accessories Compatibility

Some accessories may modify the terminal block's rating.	See complete information in the accessories catalog page.

Description	Type	Order Code	Pack ^(ing)	Weight	Accessories catalogue
			pieces		page number
1 End Stops	BAM3	1SNK900001R0000	50		1SNK160026S0201
	BAZ1	1SNK900002R0000	20	5.30	1SNK160002S0201
2 Jumper Bars	JB6-2	1SNK906302R0000	50	1.30	1SNK160029S0201
	JB6-3	1SNK906303R0000	50	2.10	1SNK160029S0201
	JB6-4	1SNK906304R0000	50	2.90	1SNK160029S0201
	JB6-5	1SNK906305R0000	50	3.60	1SNK160029S0201
	JB6-10	1SNK906310R0000	20	7.40	1SNK160029S0201
3 Test Adapters	TP2	1SNK900203R0000	20	1.73	1SNK160036S0201
	TP4	1SNK900205R0000	20	2.41	1SNK160036S0201
4 Test Plugs	FC2.MC	1SNA107239R0300	20	1.00	
5 Test Connectors	TC5-R1	1SNK900201R0000	10	5.23	1SNK160042S0201
6 Spacers	ES-TC6	1SNK900105R0000	10	0.80	
7 Mounting Rails	PR3.G2	1SNA164800R0300	2		1SNK160040S0201
	PR4	1SNA168500R1200	2	915.00	1SNK160041S0201
	PR5	1SNA168700R2200	2		1SNK160041S0201
	PR30	1SNA173220R0500	2	328.00	1SNK160017S0201
	PR3.Z2	1SNA174300R1700	2		1SNK160017S0201
8 Tools	PS-3	1SNK900650R0000	1	380.00	1SNK160028S0201
9 Terminal Block Markers	MC612	1SNK150000R0000	22		1SNK160006S0201
	MC612-YL	1SNK150004R0000	22	10.00	1SNK160006S0201
	MC612PA	1SNK159999R0000	20		1SNK160006S0201
	UMH	1SNK900611R0000	10		1SNK160001S0201
	PROCAP6	1SNK900612R0000	20		1SNK160013S0201
	SAT6	1SNK900615R0000	5		1SNK160013S0201
	37110	13111700010100000		0.00	1011110001000201

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