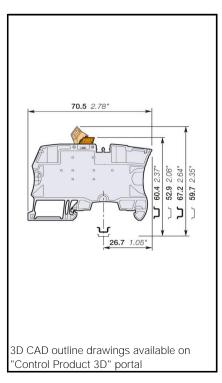
Technical Datasheet 1SNK161012D0201 Catalogue Page 1SNK161012S0201

ZS4-S-R1 Screw Clamp Terminal Blocks

- Simplify the alternated distribution thanks to the two jumper channels aligned with ZS4 feed-through terminal blocks,
- Ease your disconnect operations with the disconnect blade operated by hand or with a screwdriver.







Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight
					(1 pce) g
Grey	ZS4-S-R1	1SNK506310R0000	3472595063109	50	13.20
Blue	ZS4-S-R1-BL	1SNK506320R0000	3472595063208	50	13.20
Orange	ZS4-S-R1-OR	1SNK506330R0000	3472595063307	50	13.20

Declarations and Certificates

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



Declarations and Certificates

C€ □E	CE	1SND225099C1004
CB	СВ	1SND161077A0201
RoHS RoHS	RoHS	1SND230491F0205
c Mus USR CNR	USR CNR	1SND161040A0204
© Good R	CSA GOST R	1SND161070A0203 1SND161005A1103
BV	BV	1SND161073A0201
Eina Fina	RINA	1SND161088A0200
Ø 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 12F2
	Other colours and colours combination 12F3
	Needle flame test C 60615-11-5 Compliant

Connecting capacity per clam	np	Screw	clamp		
1 Digid Colid / Ctranded 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 Collductor -	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		
Gauge		IEC 60947-1	0.118 in		
Ferrule maximum outer diameter or cor insulation maximum outer diameter	nductor	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 colludciols	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

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

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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 60047 1	0 8 W/	
viaximum dissipated power at rated current	I	IEC 60947-1 0.8 W			
Rated power dissipation at an ambi	ent temperat	ture of 23 °C - IEC 60947-7-3			
Separate arrangement Overload and short-circuit protection					
Separate arrangement Exclusive short-circuit protection		1 fuse and 4 feed-through blocks			
Compound arrangement Overload and short-circuit protection		$ \begin{array}{c c} & & & & & & & & & & \\ \hline & & & & & & & & & \\ \hline & & & & & & & & \\ \hline & & & & & & & & \\ \hline & & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & & \\ \hline & & & & \\ \hline & & & & \\ \hline & & & & & \\ \hline & & & & & \\ \hline & & & $			
Compound arrangement Exclusive short-circuit protection					
Environmental Characteristics Additional climatic tests					
Dry heat		IEC 60068-2 2 Compliant			
	Conditions _	_	Temperature		2
2 "			Duration of test		
Cyclic damp heat	O	IEC 60068-2			ant
	Conditions Temper Duration o				
Cold			IEC 60068-2 1		ant
Cold				erature -40 °C	
	_	Duration of test 96 h			
Z/ABDM climatic sequence				-2 61 Compliant	
	Conditions	Dry heat Duration of test			+85 °C
	_	Cyclic damp heat Number of cycles	·		+55 °C
	_	Cold Duration of test	·		-25 °C
Corrosion					
Salt mist			IEC 60068-2 11 Compliant		ant
	Conditions		Duration of test		
			Concentration		
SO2			ISO 6988 Compliant		ant
	Conditions]	Duration of test	test 48 h	
		Concentration 0.2 dm ³		3	
Sulfur dioxide			EC 60068-2 42		
	Conditions		Duration of test		
Hydrogen sulfur			EC 60068-2 43		
	Conditions		Duration of test		
Flowing mixed gas corrosion test			EC 60068-2 60		
	Conditions	Number of the second se	he test method		
		-	S 11 C1 1		

Duration of test

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Vibrations

<u> </u>					
Sinusoidal vibrations		IEC 60068-2-6	Compliant		
	Conditions	Frequency range	10-55 Hz		
	-	Number of cycles	10		
	_	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-R1 Terminal Block Accessories Compatibility

Some accessories may modify the terminal block's rating.	See complete information in the accessories catalog page.
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Description	Type	Order Code	Pack ^(ing)	Weight	Accessories catalogue
			pieces		page number
1 End Stops	BAM3	1SNK900001R0000	50		1SNK160026S0201
	BAZ1	1SNK900002R0000	20		1SNK160002S0201
2 Jumper Bars	JB6-2	1SNK906302R0000	50		1SNK160029S0201
	JB6-3	1SNK906303R0000	50		1SNK160029S0201
	JB6-4	1SNK906304R0000	50		1SNK160029S0201
	JB6-5	1SNK906305R0000	50	3.60	1SNK160029S0201
	JB6-10	1SNK906310R0000	20	7.40	1SNK160029S0201
3 Lateral Jumper Bars	PC81-10	1SNA173523R1100	10	5.00	
4 Test Adapters	TP2	1SNK900203R0000	20	1.73	1SNK160036S0201
·	TP4	1SNK900205R0000	20	2.41	1SNK160036S0201
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 Marke		1SNK150000R0000	22		1SNK160006S0201
	MC612-YL	1SNK150004R0000	22		1SNK160006S0201
	MC612PA	1SNK159999R0000	20		1SNK160006S0201
	UMH	1SNK900611R0000	10		1SNK160001S0201
	PROCAP6	1SNK900612R0000	20		1SNK160013S0201
	SAT6	1SNK900615R0000	5		1SNK160013S0201
	37110	13111733313113333		0.00	10111110001000201

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