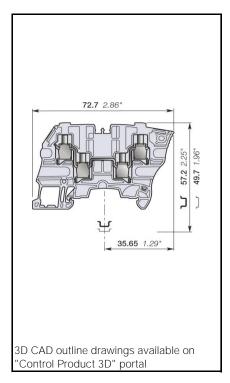
Technical Datasheet 1SNK161065D0201 Catalogue Page 1SNK161068S0201

ZS6-4S Screw Clamp Terminal Blocks Feed-through with 4 connections

- High density wiring (one potential distribution on 4 independent screw clamps) in a very low profile and just 6 mm 0.236 in spacing,
- Recommended for energy markets and highly demanding applications requiring that only one conductor be connected per clamp.







Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight
					(1 pce) g
Grey	ZS6-4S	1SNK506012R0000	3472595060122	50	15
Blue	ZS6-4S-BL	1SNK506022R0000	3472595060221	50	15
Yellow	ZS6-4S-YL	1SNK506068R0000	3472595060689	50	15

Declarations and Certificates

C€ ©E	CB	RoHS RoHS	SU USR	(F)	Gost R	€x ATEX	IECEx IECEx	
		BV			ATEX Declaration			

Declarations and Ce											
CE CE	CE				1SND225081C10*						
©B RoHS	CB RoHs				1SND161096A02* 1SND230491F02*						
RoHS	USR)23049)16104			
USR	031	USIX					IJIVL	710104	IAUZ		
®	CSA						1SNE	016107	0A02*		
Gost R	GOST	R						016100			
€x ATEX	ATEX							016200			
IECEx IECEx	IECEx						1SNE	016200	5A17*		
© BV	BV						1SNIF	016107	3Δ <u>0</u> 2*		
BV	DV						IJINL	210107	3/\UZ		
Atex Declaration	Atex D	eclaration					ISNE)22508	5C10*		
Explosive Atmos	nhoro: ATE	/ Classifi	cation								
Group Category	priere. ATL/	(Classific	Sation		Protectio	n Method					
	IIC										
IM2 II 2 GD Ex eb I/II/I						reased security					
In the presence of exp	olosive dust atm	osphere, ter	minal blocks are	to be	installed	in certified end	losure	e II 2D			
O - C											
General Information The following information must	ho strictly adhered	d to in order to	augrantos the term	inal bl	ock alactric	al machanical a	nd onv	ironmontal	Lnorforman	60	
Protection	IEC 60947-1		NEMA250		JCK EIECTIIC	ai, mechanicai a	nu env	II OI II II IEI II II	i periornari	ce.	
Rail	150 00341	TH 35-7.5,									
	T	TH 35-15									
Wire stripping length		10.5 mm	0.413 in								
		To .		1-			1				
		Screw clan	np		ew rail cor ximum val		Disc	onnect d	evice		
Operating tool		Flat screwo	driver	(1710.	arriarri va	<u> </u>					
operating too.											
		4 mm	0.157 in								
Torque	6.	0.75 N.m	6.64 lb.in								
		± 0.05 N.m	± 0.44 lb.in								
Matarial Chapificatio	ne.										
Material Specification Insulating material	ITIS							Polyamio	do		
CTI								600 V	<u></u>		
- Flammability							UL94	VO			
-		_				NF F 1	6101	I2F2			
		_									
				Ne	edle flame	test C 60615	-11-5	Complia	nt		
Connecting capacity	ı ner clamn	_		Scrov	clamp						
Connecting capacity		Norme	IEC60947-7-1		clamp i	JL1059					
1 Rigid - Solid / Stranded o	conductor —	Value	0.2 6 mm ²			. 10 AWG					
1 Floudble		Norme	IEC60947-7-1								
1 Flexible conductor		Value	0.22 6 mm ²	2							
1 Flexible conductor with n	non	Norme	Manufacturer d			acturer data					
nsulated ferrule		Value	0.22 4 mm			. 12 AWG					
1 Flexible conductor with in	nsulated	Norme	Manufacturer d			acturer data					
errule		Value	0.22 4 mm A4-B3	<u> </u>		. 12 AWG 3 mm	-				
Gauge			IEC 60947-1			O IIIIII					
Ferrule maximum outer dia	meter or conduc	ctor									
insulation maximum outer of			Ø	Max.	Manuf	acturer data		5.5 m	nm		

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

As part of its on-going product improvement, ABB reserves the right to modify the characteristics or the products described in this document. The information given is not contractual. For further details please contact the ABB company marketing these products in your country.

Multi Connecting capacity per clamp

2 Rigid - Solid / Stranded	Norme	IEC60947-7-1	UL1059	
conductors	Value	0.2 2.5 mm ²	24 14 AWG	
2 Flexible conductors	Norme	IEC60947-7-1		
2 Flexible colludctors	Value	0.2 2.5 mm ²		
2 Flexible conductors with twin	Norme	Manufacturer data	Manufacturer data	
ferrule	Value	0.22 2.5 mm ²	24 14 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	6 mm ²	Manufacturer data	10 AWG

Electrical characteristics Current

Rated current			IEC60947-7-1	32 A	
	Field and factory wiring Cat.2		UL 1059	30 A	
	Factory wiring Cat.1		UL 1059		
			CSA-C-22.2 n°158	30 A	
Maximum Exe current			IEC/EN 60079-7	29 A	
Rated short-time withstand current 1 s (Icw)			IEC60947-7-1	480 A	
Short-time withstand current		0.5 s	Manufacturer data		
		5 s	Manufacturer data		
		10 s	Manufacturer data		
		30 s	Manufacturer data		
		1 min	Manufacturer data		
Rated short-circuit withstand current			CSA-C-22.2 n°158		
Max. current (45° temperature increase) / Max. cross section (mm²)			Manufacturer data	39 A	6 mm ²
Maximum short circuit current (1s)			Manufacturer data	480 A	

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR		UL 1059	100 kA
With the following configurations:			
	Suitable conductor wire range		10 AWG
	Maximum voltage		600 V
	Fuse class / Max. amp. Rating	J	175 A
		T	175 A
		RK1	100 A
		RK5	60 A
		G	60 A
		CC	30 A

Voltage

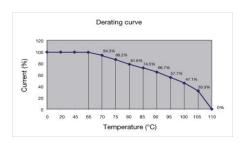
Rated voltage Use Group Rated voltage CSA-C Rated voltage Ex e Rated impulse withstand voltage	IEC 60947-1	800 V
Use GroupCSA-CRated voltageCSA-CRated voltage Ex eIEC/Rated impulse withstand voltageI	LII 1050	
Rated voltageCSA-CRated voltage Ex eIEC/Rated impulse withstand voltageI	OL 1039	600 V
Rated voltage Ex e IEC/ Rated impulse withstand voltage I	UL 1059	B, C
Rated impulse withstand voltage	C-22.2 n°158	600 V
	EN 60079-7	500 V
Dielectric test voltage	IEC 60947-1	8000 V
Diological total voltage	IEC 60947-1	2000 V
Pollution degree I	IEC 60947-1	3
Overvoltage category I	IEC 60947-1	III

3

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

Current Derating curve for continuous service temperature



Dissipated power

Maximum dissipated power at rated current	IEC 60947-1 1 W
Maximum dissipated power at maximum Exe current	IEC 60079-7 0.9 W

Rated power dissipation at an ambient temperature of 23 °C - IEC 60947-7-3

Separate arrangement / Overload and short-circuit protection	
Separate arrangement / Exclusive short-circuit protection	
Compound arrangement / Overload and short-circuit protection	
Compound arrangement / Exclusive short-circuit protection	

Environmental Characteristics Additional climatic tests

Dry heat		IEC 60068-2 2 Compliar	nt
	Conditions	Temperature 110 °C	
		Duration of test 96 h	
Cyclic damp heat		IEC 60068-2 30 Complian	nt
	Conditions	Temperature 55 °C	
		Relative humidity 95 %	
		Number of cycles (1 cycle = 24h) 2	
Cold		IEC 60068-2 1 Complian	nt
	Conditions	Temperature -55 °C	
		Duration of test 96 h	
Damp heat steady state		IEC 60068-2-78 Complian	nt
	Conditions	Temperature 40 °C	
		Relative humidity 93 %	
		Duration of test 96 h	

Corrosion

Salt mist		IEC 60068-2 11 Compliant		
	Conditions	Duration of test 96 h		
		Concentration 5 %		
SO2		ISO 6988 Compliant		
	Conditions	Duration of test 48 h		
		Concentration 0.2 dm ³		
Flowing mixed gas corrosion test		IEC 60068-2 60 Compliant		
	Conditions	Number of the test method 3		
		Duration of test 21 j		

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Vibrations and shocks

Sinusoidal vibrations		IEC 60068-2-6 Compliant
	Conditions	Frequency range 5 100 Hz
		Number of cycles 1
		Acceleration 7 m/s ²
Functional random vibrations		IEC 61373
Category 1 Class B 3 axes	Conditions	Duration of test
		Frequency range
		Acceleration
Long life testing at increased random vibrations		IEC 61373
Category 1 Class B 3 axes	Conditions	Duration of test
		Frequency range
		Acceleration
Shock		IEC 61373
Category 1 Class B 3 axes	Conditions	Duration of test
		Acceleration

ZS6-4S Terminal Block Accessories Compatibility

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

Description	Type	Order Code	Pack ^(ing)	Weight	
			pieces	g (1 pce)	
1 End Stops	BAM3	1SNK900001R0000	50	13.80	
	BAZ1	1SNK900002R0000	20	5.30	
2 End Sections	ES6-4S	1SNK505911R0000	20	3.1	
3 Jumper Bars	JB6-2	1SNK906302R0000	50	1.30	
	JB6-3	1SNK906303R0000	50	2.10	
	JB6-4	1SNK906304R0000	50	2.90	
	JB6-5	1SNK906305R0000	50	3.60	
	JB6-10	1SNK906310R0000	20	7.40	
	JB6-50	1SNK906350R0000	10	38.10	
4 Circuit Separators	CS	1SNK900101R0000	20	0.20	
	CS-R1	1SNK900103R0000	20	5.20	
Test Adapters	TP2	1SNK900203R0000	20	1.73	
•	TP4	1SNK900205R0000	20	2.41	
5 Test Connectors	TC5-R1	1SNK900201R0000	10	5.23	
7 Spacers	ES-TC6	1SNK900105R0000	10	0.80	
B Mounting Rails	PR3.G2	1SNA164800R0300	2		
3	PR4	1SNA168500R1200	2	915.00	
	PR5	1SNA168700R2200	2		
	PR30	1SNA173220R0500	2	328.00	
	PR3.Z2	1SNA174300R1700	2		
	PR50	1SNA178529R0400	2	1 288.00	
9 Tools	PS-3	1SNK900650R0000	1	380.00	
0 Terminal Block Markers	MC512	1SNK140000R0000	22	9.00	
TO TEITHING BIOCK WAIKERS	MC512-YL	1SNK140004R0000	22	9.00	
	MC512PA	1SNK149999R0000	20	10.00	
	MC612	1SNK150000R0000	22	10.00	
	MC612-YL	1SNK150004R0000	22	10.00	
	MC612PA	1SNK159999R0000	20	11.00	
	UMH	1SNK900611R0000	10	0.20	
	PROCAP6	1SNK900612R0000	20	0.78	
	SAT6	1SNK900615R0000	5	6.00	
	SAT	1SNK900623R0000	5	6.00	
	JAT	13111700023110000	3	0.00	

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