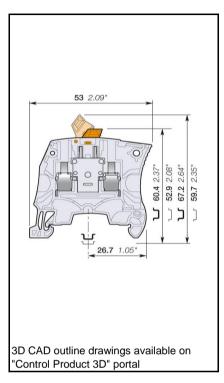
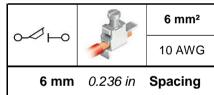
Technical Datasheet 1SNK161046D0201 Catalogue Page 1SNK161046S0201

ZS6-S Screw Clamp Terminal Blocks Disconnect with blade

- Ease your disconnect operations with the disconnect blade operated by hand or with a screwdriver,
- Same profile as ZS6 feedthrough terminal block for aligned marking and identical end section use.







Ordering Details

Color		Type	Order Code	EAN Code	Pack ^(ing)	Weight
						(1 pce) g
Grey	36 :	ZS6-S	1SNK506315R0000	3472595063154	50	8.60
Blue	8	ZS6-S-BL	1SNK506322R0000	3472595063222	50	8.60
-						

Declarations and Certificates

C €	CB	RoHS RoHS	SN USR		€ Gost R		
		BV				-	



Declarations and Certificates

	CE	1SND255112C10*
ED ME	СВ	1SND161085A02*
RoHS RoHS	RoHS	1SND230515F02*
A usa	USR	1SND161041A02*
•	CSA	1SND161070A02*
© Ole P	GOST R	1SND161005A11*
**************************************	BV	1SND161073A02*

General Information

The following information mu	st be strictly adhered	to in order to gua	rantee the termi	nal block electrica	ıl, mechanical ar	nd environmental p	erformance.	
Protection	IEC 60947-1	IP20		NEMA 1				
Rail	TH35-7.5, TH35-15	TH35-7.5, TH	35-15					
Wire stripping length		10.5 mm	0.413 in					
		Screw clamp		Screw rail cor (Maximum va		Disconnect de	evice	
Operating tool		Flat screwdriv	er					
		4 mm	0.157 in					
Torque		0.85 N.m	7.52 lb.in					
		± 0.15 N.m	± 1.33 lb.in					

Material Specifications

Insulating material		Polyamide
CTI		600 V
Flammability	UL94	V0
	NF F 16101	I2F2
	Needle flame test: C 60615-11-5	Compliant

	<u>-</u>			,	
Connecting capacity per clan	np	Screw	r clamp		
1 Rigid - Solid / Stranded conductor	Norme	IEC60947-7-1	UL1059		
Rigid - Solid / Stranded conductor	Value	0.2 6 mm²	24 10 AWG		
1 Flexible conductor	Norme	IEC60947-7-1			
I Flexible colludctol	Value	0.22 6 mm²			
1 Flexible conductor with non	Norme	Manufacturer data	Manufacturer data		
insulated ferrule	Value	0.22 6 mm ²	24 12 AWG		
1 Flexible conductor with insulated	Norme	Manufacturer data	Manufacturer data		
ferrule	Value	0.22 4 mm²	24 12 AWG		
Gauge		A4-B3	3 mm		
Gauge		IEC 60947-1	0.118 in		
Ferrule maximum outer diameter or co 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).

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 conductors	Value	0.22 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 mm²	UL1059	10 AWG
Maximum Cross section	Manufacturer data	6 mm ²	Manufacturer data	10 AWG

Electrical characteristics Current

Rated current			IEC60947-7-1	25 A	
	Field and factory wiring Cat.2		UL 1059	25 A	
	Factory wiring Cat.1		UL 1059	25 A	
			CSA-C-22.2 n°158		
Maximum Exe current			IEC/EN 60079-7		
Rated short-time withstand current 1 s (lcw)			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	30 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	
With the following configurations:			
	Suitable conductor wire range		
	Maximum voltage		
	Fuse class / Max. amp. Rating	J	
		Т	
		RK1	
		RK5	
		G	
		CC	

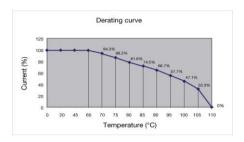
Voltage

Rated voltage	IEC 60947-1	500 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

Current Derating curve for continuous service temperature



Dissipated power

Maximum dissipated power at rated current	IEC 60947-1 0.8 W
Maximum dissipated power at maximum Exe current	IEC 60079-7

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 Compliant
	Conditions	Temperature +100 °C
		Duration of test 96 h
Cyclic damp heat		IEC 60068-2 30 Compliant
	Conditions	Temperature +55 °C
		Relative humidity
		Number of cycles (1 cycle = 24h) 2
Cold		IEC 60068-2 1 Compliant
	Conditions	Temperature -40 °C
		Duration of test 96 h
Damp heat steady state		IEC 60068-2-78
	Conditions	Temperature
		Relative humidity
		Duration of test

Corrosion

Salt mist		IEC 60068-2 11 Cor	Compliant
	Conditions	Duration of test 96 h	h
		Concentration 5 %	, 0
SO2		ISO 6988 Cor	mpliant
	Conditions	Duration of test 48 h	h
		Concentration 0.2	dm³
Flowing mixed gas corrosion test		IEC 60068-2 60	
	Conditions	Number of the test method	
		Duration of test	

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Vibrations and shocks

Sinusoidal vibrations		IEC 60068-2-6	Compliant
	Conditions	Frequency range	10 55 Hz
		Number of cycles	10
		Acceleration	10 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-S Terminal Block Accessories Compatibility Some accessories may modify the terminal block's rating. See complete information in the accessories catalog page.

	Description	Туре	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	ES4	1SNK505910R0000	20	2.18	
3	Lateral Jumper Bars	PC6-2	1SNA113546R1400	10	2.00	
	•	PC6-10	1SNA113548R2600	10	8.00	
		PC6-3	1SNA116536R0500	10	2.00	
		PC6-4	1SNA116537R0600	10	3.00	
4	Circuit Separators	CS-R1	1SNK900103R0000	20	5.20	
5	Protecting Cover Kits	ксо	1SNK900624R0000	1	47.80	
6	Shield Connectors	SHBS	1SNK900600R0000	20	3.50	
7	Protecting Covers	СО	1SNK900604R0000	1	300.00	
	-	PL6	1SNK900619R0000	10	1.84	
8	Mounting Rails	PR3.G2	1SNA164800R0300	2		
	•	PR4	1SNA168500R1200	2	915.00	
		PR5	1SNA168700R2200	2		
		PR30	1SNA173220R0500	2	328.00	
		PR3.Z2	1SNA174300R1700	2		
9	Tools	PS-3	1SNK900650R0000	1	380.00	
10	Terminal Block Markers	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	
11	Screw Clamp Terminal Bloc	ks ZS6-S	1SNK506315R0000	50	8.60	
	·					

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