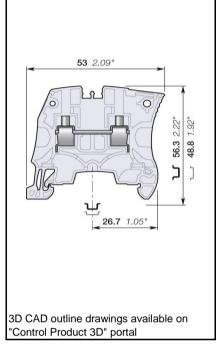
Catalogue Page 1

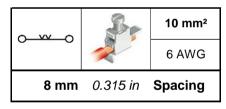
1SNK161004S0201

# ZS10 Screw Clamp Terminal Blocks Feed-through

Save space by connecting conductors up to 10 mm<sup>2</sup> (CB certified) 6 AWG in just 8 mm 0.315 in spacing.







# **Ordering Details**

Color	Туре	Order Code	EAN Code	Pack <sup>(ing)</sup>	Weight
					(1 pce) g
Grey	ZS10	1SNK508010R0000	3472595080106	50	14.10
Blue	ZS10-BL	1SNK508020R0000	3472595080205	50	14.10
Orange	ZS10-OR	1SNK508030R0000	3472595080304	50	14.10
Yellow	ZS10-YL	1SNK508060R0000	3472595080601	50	14.10
Green	ZS10-GN	1SNK508061R0000	3472595080618	50	14.10
Red	ZS10-RD	1SNK508062R0000	3472595080625	50	14.10
Purple	ZS10-PR	1SNK508063R0000	3472595080632	50	14.10
Brown	ZS10-BR	1SNK508064R0000	3472595080649	50	14.10
White	ZS10-WH	1SNK508065R0000	3472595080656	50	14.10
Black	ZS10-BK	1SNK508066R0000	3472595080663	50	14.10

# **Declarations and Certificates**

CE CE		RoHS RoHS	C <b>AU</b> us USR CNR	(SP)	Gost R	Æx ATEX	IECEx IECEx	
BR-Ex e II	<b>c RU</b> us Haz Loc	BV	Rina		ATEX Declaration			





C€ c⁻	CE	1SND225081C10*
CB	СВ	1SND161018A02*
RoHS RoHS	RoHS	1SND230491F02*
CRU #S USP ONR	USR CNR	1SND161040A02*
(f)	CSA	1SND161070A02*
Cr Gost R	GOST R	1SND161005A11*
(Ex) ATEX	ATEX	1SND162004A17*
IECEx IECEx	IECEx	1SND162005A17*
RR-Exell	BR-Ex e II	1SND161042A02*
c Ruus Haz Loc	USR CNR Haz Loc	1SND161047A02*
0 BV	BV	1SND161073A02*
8 Bina	RINA	1SND161088A02*
0NV	DNV	1SND161087A02*
Atex Declaration	Atex Declaration	1SND225085C10*

# **Explosive Atmosphere: ATEX Classification**

Group Category	Protection Method
IM2 II 2 GD Ex eb I/II/IIIC	Ex e: increased security
In the presence of explosive dust atmosphere, terminal blocks are to be i	nstalled in certified enclosure II 2D

# **General Information**

The following information must be	e strictly adhered	to in order to gua	rantee the termin	al block electrica	l, mechanical and	l 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		12 mm	0.472 in					

		Screw clamp		Screw rail con (Maximum val	Disconnect de	vice	
Operating tool		Flat screwdriv	er				
	$\bigcirc$	4 mm	0.157 in				
Torque	6	1.3 N.m	11.5 lb.in				
		± 0.3 N.m	± 2.65 lb.in				

# **Material Specifications**

Insulating material		Polyamide
CTI		600 V
Flammability	UL94	V0
	NF F 16101	12F2

Needle flame test C 60615-11-5 Compliant

Connecting capacity per clan	np	Screw	clamp		
1 Rigid - Solid / Stranded conductor	Norme	IEC60947-7-1	UL1059		
r Rigid - Solid / Stranded conductor	Value	0.5 10 mm²	24 6 AWG		
1 Flexible conductor	Norme	IEC60947-7-1			
	Value	0.5 10 mm²			
1 Flexible conductor with non	Norme	Manufacturer data	Manufacturer data		
insulated ferrule	Value	0.5 10 mm²	24 8 AWG		
1 Flexible conductor with insulated	Norme	Manufacturer data	Manufacturer data		
ferrule	Value	0.5 6 mm²	24 10 AWG		
Gauge		A5-B5	5.2 mm		
Gauge		IEC 60947-1	0.205 in		
Ferrule maximum outer diameter or con insulation maximum outer diameter	nductor	Ø Max.	Manufacturer data	7.5 mm	0.295 in
insulation maximum outer diameter					

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm<sup>2</sup>).

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	0.5 4 mm²	20 12 AWG	
2 Flexible conductors	Norme	IEC60947-7-1		
	Value	0.5 4 mm²		
2 Flexible conductors with twin	Norme	Manufacturer data	Manufacturer data	
ferrule	Value	0.5 4 mm²	20 12 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 mm<sup>2</sup>)

#### **Cross section**

Rated cross section	IEC60947-7-1	10 mm²	UL1059	6 AWG
Maximum Cross section	Manufacturer data	10 mm <sup>2</sup>	Manufacturer data	6 AWG

# **Electrical characteristics**

### Current

Rated current			IEC60947-7-1	57 A	
	Field and factory wiring Cat.2		UL 1059	42 A	
	Factory wiring Cat.1		UL 1059	42 A	
			CSA-C-22.2 n°158	42 A	
Maximum Exe current			IEC/EN 60079-7	57 A	
Rated short-time withstand current 1 s (Icw)			IEC60947-7-1	1200 A	
Short-time withstand current		0.5 s	Manufacturer data	2508 A	
		5 s	Manufacturer data	798 A	
		10 s	Manufacturer data	570 A	
		30 s	Manufacturer data	285 A	
		1 min	Manufacturer data	228 A	
Rated short-circuit withstand current			CSA-C-22.2 n°158		
Max. current (45° temperature increase) / Max	a. cross section (mm <sup>2</sup> )		Manufacturer data	57 A	10 mm <sup>2</sup>
Maximum short circuit current (1s)			Manufacturer data	1200 A	

SCCR		UL 1059	100 kA	
With the following configurations:				
	Suitable conductor wire range		14 6 AWG	
	Maximum voltage		600 V	
	Fuse class / Max. amp. Rating	J	110 A	
		Т	110 A	
		RK1	100 A	
		RK5	30 A	
		G	60 A	
		CC	30 A	

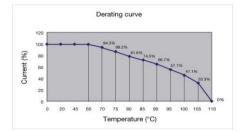
Voltage		
Rated voltage	IEC 60947-1 10	00 V
Rated voltage	UL 1059 60	0 V
Use Group	UL 1059 B,	С
Rated voltage	CSA-C-22.2 n°158 60	0 V
Rated voltage Ex e	IEC/ EN 60079-7 63	0 V
Rated impulse withstand voltage	IEC 60947-1 80	00 V
Dielectric test voltage	IEC 60947-1 22	00 V
Pollution degree	IEC 60947-1 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

Current Derating curve for continuous service temperature

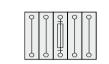


#### **Dissipated power**

Maximum dissipated power at rated current	IEC 60947-1 1.8 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



1 fuse and 4 feed-through blocks



5 fuse blocks

# 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	Compliant
	Conditions	Duration of test	96 h
		Concentration	5 %
SO2		ISO 6988	Compliant
	Conditions	Duration of test	48 h
		Concentration	0.2 dm <sup>3</sup>
Flowing mixed gas corrosion test		IEC 60068-2 60	Compliant
	Conditions	Number of the test method	3
		Duration of test	21 ј

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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 <sup>2</sup>
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	

# **ZS10 Terminal Block Accessories Compatibility**

Description	Type	Type Order Code	age. Pack <sup>(ing)</sup> 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 Jumper Bars	JB8-2	1SNK908302R0000	50	2.70	
•	JB8-3	1SNK908303R0000	50	4.10	
	JB8-4	1SNK908304R0000	50	5.60	
	JB8-5	1SNK908305R0000	40	7.00	
	JB8-10	1SNK908310R0000	20	14.20	
4 Cross Spacing Jumpers	JB85-3	1SNK900603R0000	10	2.80	
5 Circuit Separators	CS	1SNK900101R0000	20	0.20	
	CS-R1	1SNK900103R0000	20	5.20	
6 Test Adapters	TP2	1SNK900203R0000	20	1.73	
-	TP4	1SNK900205R0000	20	2.41	
7 Test Connectors	TC5	1SNK900200R0000	10	5.23	
	TC5-R1	1SNK900201R0000	10	5.23	
8 Spacers	ES-TC8	1SNK900104R0000	10	1.35	
9 Protecting Cover Kits	КСО	1SNK900624R0000	1	47.80	
10 Protecting Covers	СО	1SNK900604R0000	1	300.00	
C C	PL8	1SNK900620R0000	10	2.55	
11 Mounting Rails	PR3.G2	1SNA164800R0300	2		
C C	PR4	1SNA168500R1200	2	915.00	
	PR5	1SNA168700R2200	2		
	PR30	1SNA173220R0500	2	328.00	
	PR3.Z2	1SNA174300R1700	2		
12 Tools	PS-3	1SNK900650R0000	1	380.00	
13 Terminal Block Markers	MC812	1SNK160000R0000	22	10.00	
	MC812-YL	1SNK160004R0000	22	10.00	
	MC812PA	1SNK169999R0000	20	14.00	
	UMH	1SNK900611R0000	10	0.20	
	PROCAP8	1SNK900613R0000	20	1.00	
	SAT8	1SNK900616R0000	5	6.00	
14 Screw Clamp Terminal Blo	cks <b>ZS10</b>	1SNK508010R0000	50	14.10	

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# Contact us

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