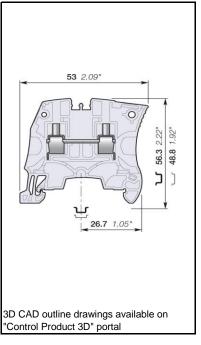
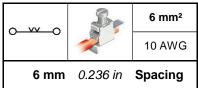
ZS6 Screw Clamp Terminal Blocks Feed-through

Save space by connecting conductors up to 6 mm² (without insulated ferrule, CB certified) 10 AWG in just 6 mm 0.236 in spacing,

- Perfectly adapted to solar applications: voltage is rated 1000 V AC / DC IEC.







Ordering Details

Color		Type	Order Code	EAN Code	Pack ^(ing)	Weight
						(1 pce) g
Grey		ZS6	1SNK506010R0000	3472595060108	50	10.60
Blue	20 20	ZS6-BL	1SNK506020R0000	3472595060207	50	10.60
Orange		ZS6-OR	1SNK506030R0000	3472595060306	50	10.60
Yellow		ZS6-YL	1SNK506060R0000	3472595060603	50	10.60
Green		ZS6-GN	1SNK506061R0000	3472595060610	50	10.60
Red		ZS6-RD	1SNK506062R0000	3472595060627	50	10.60
Purple	8	ZS6-PR	1SNK506063R0000	3472595060634	50	10.60
Brown	3	ZS6-BR	1SNK506064R0000	3472595060641	50	10.60
White		ZS6-WH	1SNK506065R0000	3472595060658	50	10.60
Black		ZS6-BK	1SNK506066R0000	3472595060665	50	10.60

Declarations and Certificates

C€	IEC IECH	RoHS	c FU us	(3)	EHLEx	ξx	<u>IECE×</u>	
CE	CB	RoHS	USR CNR		EAC Ex	ATEX	IECEX	





C€	rtificates CE				1SND225100U10*					
in w	CB				1SND161025A02*					
RoHS	RoHS				1SND161025A02* 1SND230491F02*					
RoHS c Fl is	USR CI	VR						0161040		
USTOND	001(01	VI V					10141	210104	57102	
(f)	CSA	CSA					1SNE	016107	DA02*	
ENCE	EAC Ex	(
(E)	ATEX						1SNI	0162004	4A17*	
ICCC:	IECEx							016200		
₹	BR-Ex	e II						0161042		
c 71 us Ha7 l cc	USR CI	NR Haz Lo	C				1SNI	016104	7A02*	
BV	BV						1SNI	016107	3A02*	
Art. Pins.	RINA						1SNI	016108	3A02*	
DW.	DNV						1SNI	016108	7A02*	
Atex Declaration	Atex De	eclaration					1SNE)22508	5C10*	
Explosive Atmos	phere: ATEX	Classific	ation							
Group Category					Protection	n Method				
IM2 II 2 GD Ex eb I/II/III	IC				Ex e: incr	eased secu	rity			
In the presence of explo								0.0		
General Information the following information must be Protection	oe strictly adhered		uarantee the termi	inal blo		I, mechanical	and envi	ronmental _l	performance	e.
Rail	120 000 11 1	20		112.00	,,,,					
· Can	T	TH 35-7.5, T	H 35-15							
Wire stripping length		10.5 mm	0.412 in							
					crew rail contact				Disconnect device	
		Screw clamp)				Disc	onnect de	evice	
Operating tool		Screw clamp					Disc	onnect de	evice	
Operating tool							Disc	onnect de	evice	
		Flat screwdri	ver				Disc	onnect de	evice	
		Flat screwdri 4 mm	ver 0.157 in				Disc	onnect de	evice	
Forque		Flat screwdri 4 mm 0.85 N.m	0.157 in 7.52 N.m				Disc	onnect de	evice	
orque Material Specification		Flat screwdri 4 mm 0.85 N.m	0.157 in 7.52 N.m				Disc			
Torque Material Specification insulating material		Flat screwdri 4 mm 0.85 N.m	0.157 in 7.52 N.m					Polyamic		
Torque Material Specification insulating material CTI		Flat screwdri 4 mm 0.85 N.m	0.157 in 7.52 N.m					Polyamic 600 V		
Torque Material Specification insulating material CTI		Flat screwdri 4 mm 0.85 N.m	0.157 in 7.52 N.m			ue)	UL94	Polyamic 600 V V0		
Torque Material Specification insulating material CTI		Flat screwdri 4 mm 0.85 N.m	0.157 in 7.52 N.m			ue)		Polyamic 600 V V0		
Torque Material Specification insulating material CTI		Flat screwdri 4 mm 0.85 N.m	0.157 in 7.52 N.m	(Max	kimum val	ue)	UL94 = 16101	Polyamic 600 V V0 I2F2	le	
Torque Material Specification insulating material CTI		Flat screwdri 4 mm 0.85 N.m	0.157 in 7.52 N.m	(Max	kimum val	ue)	UL94 = 16101	Polyamic 600 V V0 I2F2	le	
Torque Material Specification insulating material STI Flammability	ns	Flat screwdri 4 mm 0.85 N.m	ver 0.157 in 7.52 N.m ± 1.33 N.m	Nee	kimum val	ue)	UL94 = 16101	Polyamic 600 V V0 I2F2	le	
Operating tool Torque Material Specification Insulating material CTI Flammability Connecting capacity	per clamp	Flat screwdri 4 mm 0.85 N.m	ver 0.157 in 7.52 N.m ± 1.33 N.m	Nee	kimum val	ue)	UL94 = 16101	Polyamic 600 V V0 I2F2	le	
Forque Material Specification insulating material CTI Flammability	per clamp	Flat screwdri 4 mm 0.85 N.m ± 0.15 N.m	ver 0.157 in 7.52 N.m ± 1.33 N.m	Nee	edle flame	ue)	UL94 = 16101	Polyamic 600 V V0 I2F2	le	

Connecting capacity per clan	np	Screw	clamp		
1 Digid Colid / Stranded conductor	Norme				
1 Rigid - Solid / Stranded conductor	Value	0.2 6 mm²	24 10 AWG		
1 Flexible conductor	Norme				
Flexible conductor	Value	0.2 6 mm²			
1 Flexible conductor with non insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 4 mm²	24 12 AWG		
1 Flexible conductor with insulated	Norme	Manufacturer data	Manufacturer data		
ferrule	Value	0.22 4 mm ²	24 12 AWG		
Cours		A4-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).

Multi Connecting capacity per clamp

2 Rigid - Solid / Stranded	Norme			
conductors	Value	0.2 2.5 mm ²	24 14 AWG	
2 Flexible conductors	Norme			
2 Flexible Colluctors	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		6 mm ²		10 AWG
Maximum Cross section	Manufacturer data	6 mm ²	Manufacturer data	10 AWG

Electrical characteristics Current

Rated current				41 A	
	Field and factory wiring Cat.2		UL 1059	30 A	
	Factory wiring Cat.1		UL 1059	30 A	
			CSA-C-22.2 n°158	30 A	
Maximum Exe current			IEC/EN 60079-7	41 A	
Rated short-time withstand current 1 s (Icw)				720 A	
Short-time withstand current		0.5 s	Manufacturer data	1845 A	
		5 s	Manufacturer data	574 A	
		10 s	Manufacturer data	410 A	
		30 s	Manufacturer data	205 A	
		1 min	Manufacturer data	164 A	
Rated short-circuit withstand current			UL 1059		
Max. current (45° temperature increase) / Max	. cross section (mm²)		Manufacturer data	41 A	6 mm ²
Maximum short circuit current (1s)			Manufacturer data	720 A	•

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR		UL 1059	100 kA
With the following configurations:			
	Suitable conductor wire range		14 10 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

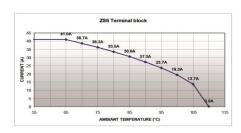
Voltage

Rated voltage	IEC 60947-1	1000 V
Rated voltage	UL 1059	600 V
Use Group	UL 1059	B, C
Rated voltage	CSA-C-22.2 n°158	600 V
Rated voltage Ex e	IEC/ EN 60079-7	693 V
Rated impulse withstand voltage	IEC 60947-1	8000 V
Dielectric test voltage	IEC 60947-1	2200 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 1.3 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	1	
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	<u> </u>
		Duration of test 96 h	
Damp heat steady state		IEC 60068-2-78	
	Conditions	Temperature	
		Relative humidity	
		Duration of test	

Corrosion

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

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 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 Terminal Block Markers	MG-CPM 13	1SNB041791R0612	1680	0.273	
	MC612	1SNK150000R0000	22	10.00	
	MC612-YL	1SNK150004R0000	22	10.00	
	MC612PA	1SNK159999R0000	20	11.00	
	UMH	1SNK900611R0000	10	0.20	
	PROCAP6	1SNK900612R0000	20	0.80	
	SAT6	1SNK900615R0000	5	6.00	
2 Mounting Rails	PR3.G2	1SNA164800R0300	2	718.00	
	PR4	1SNA168500R1200	2	915.00	
	PR5	1SNA168700R2200	2	700	
	PR30	1SNA173220R0500	2	328.00	
	PR3.Z2	1SNA174300R1700	2	718.00	
3 End Sections	ES4	1SNK505910R0000	20	2.20	
4 End Stops	BAM4	1SNK900001R0000	50	14.00	
	BAZ1	1SNK900002R0000	50	5.30	
5 Circuit Separators	CS	1SNK900101R0000	20	0.20	
	CS-R1	1SNK900103R0000	20	5.20	
6 Test Connectors	TC5-R1	1SNK900201R0000	10	5.20	
7 Test Adapters	TP2	1SNK900203R0000	20	1.70	
	TP4	1SNK900205R0000	20	2.40	
8 Shield Connectors	SHBS	1SNK900600R0000	20	3.50	
9 Cross Spacing Jumpers	JB85-3	1SNK900603R0000	10	2.80	
10 Protecting Covers	СО	1SNK900604R0000	1	300.00	
	PL6	1SNK900619R0000	10	1.80	
11 Protecting Cover Kits	ксо	1SNK900624R0000	1	47.80	
I2 Tools	PS-3	1SNK900650R0000	1	380.00	
13 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	
14 Spacers	ES-TC6	1SNK900105R0000	10	0.80	
11 000000					
		+			
		+			