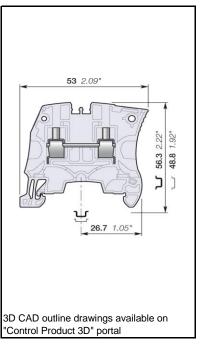
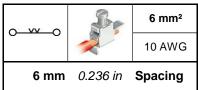
ZS6 Screw Clamp Terminal Blocks Feed-through

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	50	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		ZS6-PR	1SNK506063R0000	3472595060634	50	10.60
Brown	2	ZS6-BR	1SNK506064R0000	3472595060641	50	10.60
White	8	ZS6-WH	1SNK506065R0000	3472595060658	50	10.60
Black		ZS6-BK	1SNK506066R0000	3472595060665	50	10.60

Declarations and Cortificates

CE	IEC IEE	RoHS	c FLI us	(A)	EHLEx	⟨£x⟩	IECE ×	
CE	СВ	RoHS	USR CNR	U	EAC Ex	ATEX	IECEx	





Declarations and Cert											
(€	CE							022510			
RoHS	СВ				1SND161025A02* 1SND230491F02*						
RoHS	RoHS										
USYOND	USR	USR CNR					ISNI	D16104	0A02*		
@	CSA						ISNI	D16107	0A02*		
ENC EX		EAC Ex									
(Ea) STEX	ATEX							016200			
IECEx ITOEx	IECE						_	016200	-		
THE CALL	BR-E							016104			
e PA us Haziles		CNR Haz L	-OC					016104			
BV	BV							016107			
Fine.	RINA							016108			
(36)	DNV						ISINI	D16108	7AU2"		
Atex Declaration	Atex [Declaration	1				ISNE	022508	5C10*		
Explosive Atmosp	here: ATF	X Classifi	ication								
Group Category		-71 GIGGOIII			Protection	Method					
IM2 II 2 GD Ex eb I/II/III0	<u> </u>					eased security	,				
In the presence of explos	sive dust atm	osphere, tern	ninal blocks are to	be in	stalled in c	ertified enclo	sure II	2D			
General Information											
he following information must be			guarantee the term			, mechanical ar	nd envi	ronmental	performanc	e.	
Protection	IEC 60947-	1 IP20		NEN	1A 1						
Rail	٦	TH 35-7.5,	TH 35-15								
Vire stripping length		10.5 mm	0.412 in								
		Screw clan	nn	Scre	w rail cont	act	Disc	onnect d	evice		
		Coron cian			kimum valu				01.00		
Operating tool		Flat screw	driver	1							
. •		4 mm	0.157 in								
Forque		0.85 N.m	7.52 N.m								
orque		± 0.15 N.m									
Matarial On !!! !!	_	•		•	Ų.		•				
Material Specification nsulating material	5							Polyami	de		
CTI								600 V	<u> </u>		
Flammability							UL94				
iaiabiity		_				NF F 1					
		_									
				Ne	edle flame	test EC 60615	-11-5	Complia	nt		
Connecting capacity (per clamp	_		Screw	clamp						
		Norme								T	
Rigid - Solid / Stranded con	uuctor —	Value	0.2 6 mm ²	2	24	10 AWG					
Flexible conductor		Norme									
I IEXIDIE CONQUEIOI		Value	0.2 6 mm	2							
		Mormo	Manufacturer d	lata	Manufa	acturer data				T	
Flexible conductor with non			Maridiacidiei	lata	iviariur	iotaror data	1				
		Norme Value	0.22 4 mm			12 AWG					
Flexible conductor with non nsulated ferrule Flexible conductor with insu	lated) ²	24						

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

0.22 ... 4 mm²

A4-B3

IEC 60947-1

Ø Max.

24 ... 12 AWG

3 mm

0.118 in

Manufacturer data

5.5 mm

0.216 in

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Value

Ferrule maximum outer diameter or conductor

insulation maximum outer diameter

ferrule

Gauge

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 conductors	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 mm²		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 10			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	

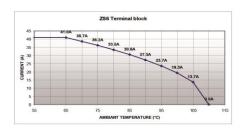
Voltage

IEC 60947-1	1000 V
UL 1059	600 V
UL 1059	B, C
CSA-C-22.2 n°158	600 V
IEC/ EN 60079-7	693 V
IEC 60947-1	8000 V
IEC 60947-1	2200 V
IEC 60947-1	3
IEC 60947-1	III
	IEC 60947-1 UL 1059 UL 1059 CSA-C-22.2 n°158 IEC/ EN 60079-7 IEC 60947-1 IEC 60947-1 IEC 60947-1 IEC 60947-1

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

rated power discipation at an ambient temperature of 20 0 120 00041 1 0					
Separate arrangement / Overload and short-circuit protection					
Separate arrangement / Exclusive short-circuit protection					
Compound arrangement / Overload and short-circuit protection	17171717171				
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	

Corresion

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 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	
12 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	

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Contact us

ABB France Electrification Products Division PG Connection 3, rue Jean Perrin F-69687 Chassieu cedex / France Tel. +33 (0)4 7222 1722

Fax +33 (0)4 7222 1935

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