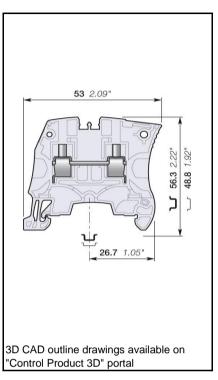
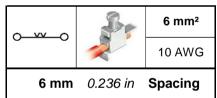
ZS6 Screw Clamp Terminal Blocks Feed-through

Save space by connecting conductors up to 6 mm² (CB certified) 10 AWG in just 6 mm 0.236 in spacing.







Ordering Details

Color		Type	Order Code	EAN Code	Pack ^(ing)	Weight
						(1 pce) g
Grey		ZS6	1SNK506010R0000	3472595060108	50	10.64
Blue		ZS6-BL	1SNK506020R0000	3472595060207	50	10.64
Orange		ZS6-OR	1SNK506030R0000	3472595060306	50	10.64
Yellow		ZS6-YL	1SNK506060R0000	3472595060603	50	10.64
Green		ZS6-GN	1SNK506061R0000	3472595060610	50	10.64
Red		ZS6-RD	1SNK506062R0000	3472595060627	50	10.64
Purple		ZS6-PR	1SNK506063R0000	3472595060634	50	10.64
Brown		ZS6-BR	1SNK506064R0000	3472595060641	50	10.64
White		ZS6-WH	1SNK506065R0000	3472595060658	50	10.64
Black		ZS6-BK	1SNK506066R0000	3472595060665	50	10.64

Declarations and Certificates

C €	CB	RoHS RoHS	c FLL us USR CNR		(P	P Gr Gost R	⟨ξχ⟩ ATEX	IECE _X	
BR-Ex e II	c AL °us Haz Loc	BV	Rina	(DNV		ATEX Declaration	-		



Declarations and Certificates

ζ	CE	1SND225081C10*
CB	СВ	1SND161025A02*
RoHS RoHS	RoHS	1SND230491F02*
¢ ™ ⊌s USR ONR	USR CNR	1SND161040A02*
©	CSA	1SND161070A02*
€Gr Gost R	GOST R	1SND161005A11*
(X) ATEX	ATEX	1SND162004A17*
IECEx IECEx	IECEx	1SND162005A17*
RR-Exe∥	BR-Ex e II	1SND161042A02*
c SUus Haz Loc	USR CNR Haz Loc	1SND161047A02*
By	BV	1SND161073A02*
∰ Bina	RINA	1SND161088A02*
DNV	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 installed in certified enclosure II 2D

General Information

The following information mu	st be strictly adhered	to in order to gua	arantee the termi	nal block electrica	al, mechanical	and environmental p	erformance.	
Protection	IEC 60947-1	IP20		NEMA 1				
Rail	TH35-7.5, TH35-15	TH35-7.5, TH	135-15					
Wire stripping length		10.5 mm	0.413 in					
		Screw clamp		Screw rail co (Maximum va		Disconnect de	evice	
Operating tool		Flat screwdriv	/or	(Waxiiii ve				
Operating tool		i lat sciewuii	761 T				1	
		4 mm	0.157 in					
Torque	Č	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

Connecting capacity per clan	np	Screw	clamp		
4 Divid Calid / Chanded and divides	Norme	IEC60947-7-1	UL1059		
1 Rigid - Solid / Stranded conductor	Value	0.2 6 mm²	24 10 AWG		
1 Flexible conductor	Norme	IEC60947-7-1			
	Value	0.2 6 mm ²			
1 Flexible conductor with non	Norme	Manufacturer data	Manufacturer data		
insulated ferrule	Value	0.22 4 mm²	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 colluctors	Value	0.2 2.5 mm²		
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	6 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	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)			IEC60947-7-1	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			CSA-C-22.2 n°158		
Max. current (45° temperature increase) / Max	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

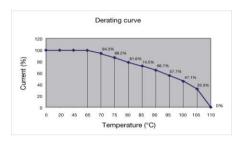
Voltage

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	630 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

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	Compliant
	Conditions	Duration of test	96 h
		Concentration	5 %
SO2		ISO 6988	Compliant
	Conditions	Duration of test	48 h
		Concentration	0.2 dm³
Flowing mixed gas corrosion test		IEC 60068-2 60	Compliant
	Conditions	Number of the test method	3
		Duration of test	21 j

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.

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	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	ES4	1SNK505910R0000	20	2.18	
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	
5 Test Adapters	TP2	1SNK900203R0000	20	1.73	
	TP4	1SNK900205R0000	20	2.41	
6 Test Connectors	TC5-R1	1SNK900201R0000	10	5.23	
7 Spacers	ES-TC6	1SNK900105R0000	10	0.80	
8 Protecting Cover Kits	KCO	1SNK900624R0000	1	47.80	
9 Shield Connectors	SHBS	1SNK900600R0000	20	3.50	
0 Protecting Covers	СО	1SNK900604R0000	1	300.00	
	PL6	1SNK900619R0000	10	1.84	
11 Mounting Rails	PR3.G2	1SNA164800R0300	2		
	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	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	
14 Screw Clamp Terminal Blo	cks ZS6	1SNK506010R0000	50	10.64	

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.

5

1SNK161008D0201 - PDF

Contact us

ABB France Low Voltage Products Division Export Department 10, rue Ampère Z.I. - B.P. 114 F-69685 Chassieu cedex / France Tel. +33 (0)4 7222 1722

Fax +33 (0)4 7222 1935

Note

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB.

Copyright© 2011 ABB All rights reserved