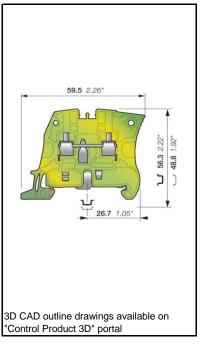
ZS4-PE Screw Clamp Terminal Blocks Ground

Improve the safety of your installation in the event of a short-circuit thanks to our screwless rail contact:

- Rail contact non operator dependent,
- Performances above the requirements of IEC 60947-7-2 terminal block standard,
- Secured snap on or remove from the rail.





0 4 0	B	4 mm²
÷		12 AWG
5.2 mm	0.205 in	Spacing

Ordering Details

Color	Туре	Order Code	EAN Code	Pack ^(ing)	Weight
					(1 pce) g
Green-Yellow	ZS4-PE	1SNK505150R0000	3472595051502	20	12.10

Declarations and Certificates

€	IEC IECEE	RoHS	c SAL us	EHLEx	(Ex)	<u>IECE×</u>	
CE	CB	RoHS	USR CNR	EAC Ex	ATEX	IECEX	





Declarations and Cer					1		1 CNIF	722540	41140*		
ात <u>क</u>	CE CB				1SND225101U10* 1SND161024A02*						
RoHS		RoHS						023049			
RoHS		USR CNR						D23049 D16104			
บลาเดิงก	USK	USK CINK					IOINL	710104	UAUZ		
•	CSA					,	1SN[D16107	0A02*		
ERC DA EAG DA	EAC E										
(Ex) 4TFX	ATEX							016200			
IECE _X Forx	IECEx							016200			
T CE	BR-Ex							016104			
c ™ us Ha7 Loc		CNR Haz I	Loc					016104			
₩ RV	BV							016107			
Fine.	RINA							016108			
DVv	DNV						1SNE	D16108	7A02*		
Atex Declaration	Atex D	Declaration	า			1	1SNE	022508	5C10*		
Explosive Atmosp	ohere: ATE	X Classif	ication		In:	N. d. I					
Group Category					Protection	ı ıvıetnoa					
IM2 II 2 GD Ex eb I/II/III	С				Ex e: incr	eased security	/				
In the presence of explo	sive dust atm	osphere, terr	minal blocks are	to be ir	nstalled in o	certified enclos	sure II	2D			
On and Information											
General Information											
The following information must b			guarantee the terr			I, mechanical ar	nd envi	ronmental	performanc	e	T
Protection	IEC 60947-1	I IP20		NEI	MA 1						
Rail	7	TH 35-7.5	, TH 35-15								
Wire stripping length		10.5 mm	0.412 in								
		Screw clar	тр		ew rail cont		Disc	onnect de	evice		
Operating tool		Flat screw	driver	<u> </u>		*					
		3.5 mm	0.138 in								
Torque	>	0.6 N.m	5.31 N.m	+			1				
. 5.440		± 0.1 N.m		,							
Material Consideration											
Material Specification Insulating material	13							Polyamio	de		
CTI								600 V			
Flammability							UL94				
. iaaziy		=				NF F 1					
		-		Na	معالم فامسم	tt-0 0004E	11.5	Complia	-1		
				INE	eule Hame	test:C 60615	- I I-5	Compila	III		
Connecting capacity	per clamp			Screv	v clamp						
1 Rigid - Solid / Stranded con	nductor —	Norme	0.2 4 ====	2	24	12 000				ऻ	
		Value Norme	0.2 4 mm	1*	24	. 12 AWG				+-	
1 Flexible conductor		Value	0.22 4 mr	m²	+		1			+-	
1 Elevible conductor with a con-		Norme	Manufacturer		Manuf	acturer data	1			+-	
1 Flexible conductor with nor insulated ferrule		Value	0.22 4 mr			. 12 AWG	1			+	
	ulotod	Norme	Manufacturer			acturer data				+	
1 Flexible conductor with ins	uiated	Norme	Manufacturer			14 AVAC				+-	

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

0.22 ... 2.5 mm²

A3-B3

IEC 60947-1

Ø Max.

24 ... 14 AWG

3 mm

0.118 in

Manufacturer data

4.7 mm

0.185 in

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.

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		
2 Flexible conductors	Norme		
	Value		
2 Flexible conductors with twin ferrule	Norme		
	Value		

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		4 mm²		12 AWG
Maximum Cross section	Manufacturer data	4 mm ²	Manufacturer data	12 AWG

Electrical characteristics Current

Rated current					
	Field and factory wiring Cat.2		UL 1059		
	Factory wiring Cat.1		UL 1059		
			CSA-C-22.2 n°158		
Maximum Exe current			IEC/EN 60079-7		
Rated short-time withstand current 1 s (Icw)				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			UL 1059	396 A	
Max. current (45° temperature increase) / Max	. cross section (mm²)		Manufacturer data		4 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	
		T	
		RK1	
		RK5	
		G	
		CC	

Voltage

Rated voltage	IEC 60947-1	
Rated voltage	UL 1059	
Use Group	UL 1059	B, C
Rated voltage	CSA-C-22.2 n°158	
Rated voltage Ex e	IEC/ EN 60079-7	
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

Dissipated power

Maximum dissipated power at rated current	IEC 60947-1	
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	\$\begin{align*} \begin{align*} \begin	

Environmental Characteristics Additional climatic tests

Dry heat		IEC 60068-2 2 Compli	
	Conditions	Temperature +100 °C	+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	

Correcion

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

ZS4-PE Terminal Block Accessories Compatibility

Description	Туре	Order Code	Pack ^(ing)	Weight	
			pieces	g (1 pce)	
1 Terminal Block Markers	MG-CPM 13	1SNB041790R0512	1960	0.236	
	MC512	1SNK140000R0000	22	9.00	
	MC512-YL	1SNK140004R0000	22	9.00	
	MC512PA	1SNK149999R0000	20	10.00	
	PROCAP5	1SNK900609R0000	20	0.70	
	UMH	1SNK900611R0000	10	0.20	
	SAT5	1SNK900614R0000	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	
End Sections	ES4	1SNK505910R0000	20	2.20	
End Stops	BAM4	1SNK900001R0000	50	14.00	
	BAZ1	1SNK900002R0000	50	5.30	
Circuit Separators	cs	1SNK900101R0000	20	0.20	
	CS-R1	1SNK900103R0000	20	5.20	
Test Connectors	TC5	1SNK900200R0000	10	5.20	
	TC5-R1	1SNK900201R0000	10	5.20	
7 Test Adapters	TP2	1SNK900203R0000	20	1.70	
	TP4	1SNK900205R0000	20	2.40	
Protecting Covers	СО	1SNK900604R0000	1	300.00	
Protecting Cover Kits	ксо	1SNK900624R0000	1	47.80	
) Tools	PS-3	1SNK900650R0000	1	380.00	
				+	
				+	
				+	
				+	
				1	

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Note

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