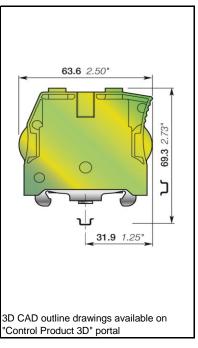
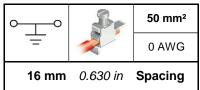
ZS50-PE Screw Clamp Terminal Blocks Ground

Reliable electrical and mechanical contact with the rail that exceeds the requirements of the IEC 60947-7-2 terminal block standard.







Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight
					(1 pce) g
Green-Yellow	ZS50-PE	1SNK516151R0000	3472595161515	20	83

Declarations and Certificates

C €	CB	RoHS RoHS	SI USR		(P	EAC Ex	€x ATEX	IECEx IECEx	
BR-Ex e II	FU Haz Loc	® BV		DNV		ATEX Declaration	•		



C€	ificates CE					1	SNI	022510	1U10*		
in and	CB										
RoHS	RoHS	<u> </u>			1SND161104A02* 1SND230491F02*						
RoHS SI LISH	USR	<u>'</u>						D16104			
1631											
(1)	CSA					1	ISNE	D16107	0A02*		
EACE EAG Ex	EAC I										
⟨Ex⟩ ≤π≠x		ATEX					016200				
icct _× For	IECE							016200			
Z === GR (x ₀)	BR-E							016104			
Haz Loc		Haz Loc						016104			
8 7	BV					1	SNL	D16107	3A02*		
₩ DV	DNV						SNI	D16108	7402*		
กัพ	DIV						OIVE	210100	7702		
Atex Declaration	Atex [Declaration	1			1	SNE	022508	5C10*		
Explosive Atmosp	here: ATF	EX Classif	ication								
Group Category					Protection	n Method					
IM2 II 2 GD Ex eb I/II/IIIC	·				Fx e. incr	eased security	,				
						•					
In the presence of explos	sive dust atm	osphere, teri	minal blocks are to	be in	stalled in	certified enclos	sure II	2D			
0 1 1 - 6 6											
General Information	and all and large	. I to to content			.1		4				
he following information must be Protection	IEC 60947-		guarantee the termi	NEN		i, mecnanicai an	ia envi	ronmentai	performand	æ.	1
Rail	1EC 60947-	1 1110		INEI	IA I						
Kall	ר כ	TH 35-7.5	, TH 35-15								
Nire stripping length		17 mm	0.669 in								
The empling longer	+ +	17 111111	0.000 111								
		Screw clar	mp	Scre	w rail con	tact	Disc	onnect d	evice		
				(Max	laximum value)						
Operating tool		Flat screw	driver								
		6.5 mm	0.256 in	6.5 r	nm	0.256 in					
_											
Torque		3 N.m	26,6 N.m	3 N.	m	26,553 lb.in					
		± 0.50 N.n	± 4.43 N.m								
Material Specification	S										
nsulating material								Polyami	de		
CTI								1000 V			
Flammability							UL94				
,		-				NF F 1					
		=									
		-		Ne	edle flame	test : C 60615	-11-5	Complia	nt		
Connecting capacity	per clamp)			clamp						
Rigid - Solid / Stranded con	ductor —	Norme	IEC60947-7-2			JL1059					
g.a cona, chandod oon		Value	1 50 mm²		18 .	0 AWG					
Flexible conductor		Norme	IEC60947-7-2				1				
		Value	1 50 mm²				1			1	
Flexible conductor with non		Norme	Manufacturer da			acturer data	1			1	
nsulated ferrule		Value	1 50 mm²			0 AWG					
Flexible conductor with insu	lated	Norme	Manufacturer da			acturer data					
errule		Value	1 50 mm²		18.	0 AWG	-			-	
			Dia.11				1				

 $The \ "Connecting \ capacity \ with \ ferrule" \ data \ is \ guaranteed \ with \ ABB \ crimping \ tool \ PS-3 \ (crimping \ capacity \ up \ to \ 10 \ mm^2).$

IEC 60947-1

Ø Max.

Manufacturer data

15.7 mm

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insulation maximum outer diameter

Ferrule maximum outer diameter or conductor

Multi Connecting capacity per clamp

2 Rigid - Solid / Stranded	Norme		
conductors	Value		
2 Flexible conductors	Norme		
2 Flexible colluctors	Value		
2 Flexible conductors with twin	Norme		
ferrule	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	IEC60947-7-2 50 mm ²	UL1059	0 AWG
Maximum Cross section	Manufacturer data 50 mm ²	Manufacturer data	0 AWG

Electrical characteristics Current

Rated current			IEC60947-7-2		
	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)			IEC60947-7-2	6000 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	6420 A	
Max. current (45° temperature increase) / Max	cross section (mm²)		Manufacturer data		50 mm ²
Maximum short circuit current (1s)			Manufacturer data	6000 A	

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR		UL 1059	100 kA
With the following configurations:			
	Suitable conductor wire range		
	Maximum voltage		
	Fuse class / Max. amp. Rating	J	
		Т	
		RK1	
		RK5	
		G	
		CC	

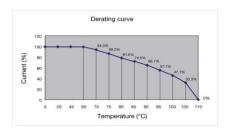
Voltage

IEC 60947-1	
UL 1059	
UL 1059	E
CSA-C-22.2 n°158	
IEC/ EN 60079-7	
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	
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 of 120 coop 10				
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	110 °C
		Duration of test	96 h
Cyclic damp heat		IEC 60068-2 30	Compliant
	Conditions	Temperature	55 °C
		Relative humidity	95 %
		Number of cycles (1 cycle = 24h)	2
Cold		IEC 60068-2 1	Compliant
	Conditions	Temperature	-55 °C
		Duration of test	96 h
Damp heat steady state		IEC 60068-2-78	Compliant
	Conditions	Temperature	40 °C
		Relative humidity	93 %
		Duration of test	96 h

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

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Vibrations and shocks

Sinusoidal vibrations		IEC 60068-2-6	Compliant
	Conditions	Frequency range	
		Number of cycles	
		Acceleration	7 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	

ZS50-PE 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	
	MC512	1SNK140000R0000	22	9.00	
	MC512-YL	1SNK140004R0000	22	9.00	
	MC512PA	1SNK149999R0000	20	10.00	
	MC612	1SNK150000R0000	22	10.00	
	MC612-YL	1SNK150004R0000	22	10.00	
	MC612PA	1SNK159999R0000	20	11.00	
	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	
	SAT	1SNK900623R0000	5	6.00	
2 Mounting Rails	PR4	1SNA168500R1200	2	915.00	
	PR5	1SNA168700R2200	2	700	
	PR50	1SNA178529R0400	2	1288.00	
3 End Stops	BAZH1	1SNK900102R0000	20	24.00	
4 Tools	PS-3	1SNK900650R0000	1	380.00	
5 Jumper Bars	JB16-2	1SNK916302R0000	10	10.00	
	JB16-3	1SNK916303R0000	10	16.00	
	JB16-4	1SNK916304R0000	10	22.00	
	JB16-5	1SNK916305R0000	10	28.00	
	JB16-10	1SNK916310R0000	10	56.60	

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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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