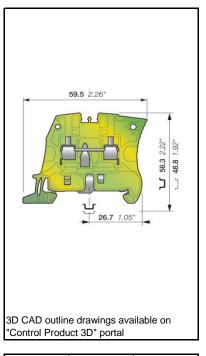
ZS6-PE Screw Clamp Terminal Blocks Ground

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 	Br	6 mm²
÷		10 AWG
6 mm	0.236 in	Spacing

Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight
					(1 pce) g
Green-Yellow	ZS6-PE	1SNK506150R0000	3472595061501	20	13.70

Declarations and Certificates

CE	IEC TECH	RoHS	c FU us	(1)	EHLEx	(Ex)	IECE ×	
CE	CB	RoHS	USR CNR		EAC Ex	ATEX	IECEX	





Declarations and Certi	ficatos										
CE CELLING	CE						ICNI	022510	11110*		
	CB				1SND161020A02*						
RoHS	RoHS	<u> </u>			1SND230491F02*						
RoHS c PL es		USR CNR						016104			
UAS FAU	Joon	OIVIX					1011	210101	107102		
®	CSA					•	1SN[D16107	'0A02*		
ENC DA	EAC										
(Ex) 4TFX	ATEX							D16200			
IECE: IFOTX	IECE						_	D16200	-		
FIRE CX (C)	BR-E							016104			
e Alu s Haz Loc		CNR Haz L	_OC					016104			
By S	BV							016107			
Rins.	RINA							016108			
DW DW	DNV						1SNI	D16108	37A02*		
Atex Declaration	Atex I	Declaration	1				1SN[022508	5C10*		
Explosive Atmosph	oro: ATE	EY Classif	ication		•						
Group Category	IGIG. AIL	_A Olassii	isation		Protection	n Method					
IM2 II 2 GD Ex eb I/II/IIIC					Ex e: incre	eased security	/				
In the presence of explosi	ve dust atm	osphere, tern	ninal blocks are to	be in	nstalled in c	ertified enclos	sure II	2D			
General Information											
The following information must be s	strictly adhere	ed to in order to	quarantee the termi	inal blo	ock electrical	l, mechanical ar	nd envi	ronmental	performano	е.	-
	IEC 60947-				MA 1	·					
Rail		TH 35-7.5,	TH 35-15								
Alina atriamina lanath											
Vire stripping length	-	10.5 mm	0.412 in								l
		Screw clan	nn	Scre	ew rail cont	act	Disc	onnect d	evice		
		OCIEW Clair	пр		ximum valu		Disc	orineet a	evice		
Operating tool		Flat screw	driver	<u> </u>		,					
-											
		4 mm	0.157 in								
orque		0.85 N.m	7.52 N.m								
		± 0.15 N.m	± 1.33 N.m								
			I	1	l		1				-
Material Specifications	<u> </u>										
nsulating material								Polyami	de		
TI								600 V			
Flammability	<u> </u>				<u> </u>		UL94	V0			
		_			·	NF F 1	6101	I2F3			
		_									
				Ne	edle flame	test : C 60615	-11-5	Complia	ınt		
Connecting capacity p	er clamn	_		Screw	v clamp						
		Norme		J016W	Jamp		1			1	
Rigid - Solid / Stranded cond	uctor —	Value	0.2 6 mm²	2	24	10 AWG	1			1	
		Norme	J.Z J IIIII		27					1	
Flexible conductor		Value	0.2 6 mm²	2			1			+	
Flexible conductor with non		Norme	Manufacturer d		Manufa	acturer data	1			1	
nsulated ferrule		Value	0.22 4 mm			12 AWG				1	
Flexible conductor with insula	ated	Norme	Manufacturer d			acturer data	1			1	
i Flexible conductor with insula		Volue	0.22 4.55			12 11/0	1			1	

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

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		
2 Flexible conductors	Norme		
	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		6 mm²		10 AWG
Maximum Cross section	Manufacturer data	6 mm ²	Manufacturer data	10 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 (lcw)				720 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	636 A	
Max. current (45° temperature increase) / Max	. cross section (mm²)		Manufacturer data		6 mm ²
Maximum short circuit current (1s)			Manufacturer data	720 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	
		Т	
		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

Transaction and an arrangement		
Separate arrangement / Overload and short-circuit protection		
Separate arrangement / Exclusive short-circuit protection		
Compound arrangement / Overload and short-circuit protection	171717171	
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

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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-PE Terminal Block Accessories Compatibility

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	1SNK900200R0000	10	5.20	
	TC5-R1	1SNK900201R0000	10	5.20	
7 Test Adapters	TP2	1SNK900203R0000	20	1.70	
·	TP4	1SNK900205R0000	20	2.40	
8 Cross Spacing Jumpers	JB85-3	1SNK900603R0000	10	2.80	
9 Protecting Covers	СО	1SNK900604R0000	1	300.00	
10 Protecting Cover Kits	ксо	1SNK900624R0000	1	47.80	
11 Tools	PS-3	1SNK900650R0000	1	380.00	
12 Spacers	ES-TC6	1SNK900105R0000	10	0.80	
·					
		+			
part of its on-going product improvement. ABB rese					

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Note

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