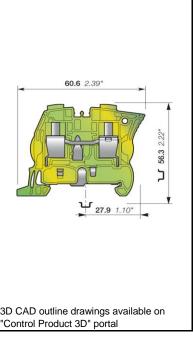
ZS16-PE Screw Clamp Terminal Blocks Ground

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,
- PE.N function available by combining ZS16-PE with ZS16-BL and 2 poles jumper bar JB10-2.





0 4 0	Be	16 mm²
÷		4 AWG
10 mm	0.394 in	Spacing

Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight
					(1 pce) g
Green-Yellow	ZS16-PE	1SNK510150R0000	3472595101504	20	32.00

Declarations and Certificates

	EC TECEF	RoHS	c FW us	(SB)	EHLEx	⟨£x⟩	<u>IECE×</u>	
CE	CB	RoHS	USR CNR	OF.	EAC Ex	ATEX	IECEX	





Declarations and Co											
C€	CE)22510°			
III III	СВ				1SND161022A02*						
RoHS RoHS	RoHS							023049			
USROVII	USR	CNR					1SNE	016104	0A02*		
(f)	CSA						1SNE	016107	0A02*		
EAC Ex	EAC										
(Ex) attex	ATEX)16200			
IECEs IECEs	IECE							016200			
TR Cx c l	BR-E							0161042			
c Alus Haz I oc		CNR Haz Lo	oc					016104			
Por Service Control of the Control o	BV							016107			
Pins.	RINA							016108			
(100)	DNV						TSINL	016108	/AU2"		
Atex Declaration	n Atex I	Declaration					1SNE	022508	5C10*		
Explosive Atmo	sphere: ATI	EX Classific	cation								
Group Category				Pi	rotection	Method					
IM2 II 2 GD Ex eb I/II/	IIIC			E	x e: incr	eased securi	ty				
In the presence of exp	olocivo duet atm	ocoboro tormi	nal blocks are to	o ho ineta	allod in c	ortified and	scuro II	3D			
<u> </u>	<u>'</u>										
General Information The following information must				inal blank	-1						
Protection	IEC 60947-		juarantee the term	NEMA		, mechanicai a	Tid envi	ronmentar	periormano	— Т	
Rail	IEC 00947-			INEIVIA	. 1						
IXali		TH 35-7.5, 1	ΓH 35-15								
Wire stripping length		13.5 mm	0.531 in								
		Screw clamp	0		rail cont		Disc	onnect de	evice		
Operating tool		Flat screwdr	iver								
		5.5 mm	0.217 in								
Torque		1.8 N.m	15.9 N.m								
		± 0.2 N.m	± 1.77 N.m								
Material Specification	ons										
Insulating material								Polyamic	le		
СТІ								600 V			
Flammability							UL94	V0			
						NF F	16101	I2F3			
				Need	le flame	test EC 6061	5-11-5	Compliar	nt		
Connecting conseit	v por elemn			Corcus -1	0000			<u> </u>	<u> </u>		
Connecting capacit	y per ciamp			Screw cl	апр					1	
1 Rigid - Solid / Stranded of	conductor —	Norme Value	0.5 16 mm	2	24	. 4 AWG				1	
		Norme	0.5 10 11111	<u>'</u>	24	. + ٨٧٧ Θ				+	
1 Flexible conductor	_	Value	0.5 16 mm	2						+	
		value	0.5 10 11111	1			1			i i	

Connecting capacity per clamp	•	Screw	clamp		
1 Rigid - Solid / Stranded conductor —	Norme				
- Trigid - Solid / Stranded conductor —	Value	0.5 16 mm ²	24 4 AWG		
1 Flexible conductor —	Norme				
- Flexible colladictor	Value	0.5 16 mm ²			
1 Flexible conductor with non	Norme	Manufacturer data	Manufacturer data		
insulated ferrule	Value	0.5 16 mm²	24 4 AWG		
1 Flexible conductor with insulated	Norme	Manufacturer data	Manufacturer data		
ferrule	Value	0.5 10 mm²	24 8 AWG		
Gauge		A6-B6	6.4 mm		
Gauge		IEC 60947-1	0.252 in		
Ferrule maximum outer diameter or condition insulation maximum outer diameter	uctor	Ø Max.	Manufacturer data	8.2 mm	0.323 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		
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		16 mm ²		4 AWG
Maximum Cross section	Manufacturer data	16 mm ²	Manufacturer data	4 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)				1920 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	2544 A	
Max. current (45° temperature increase) / Max	cross section (mm²)		Manufacturer data		16 mm²
Maximum short circuit current (1s)			Manufacturer data	1920 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

IEC 60947-1	
UL 1059	
UL 1059	B, C
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

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

That the point of the control of the			
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

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 vib	rations	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

ZS16-PE Terminal Block Accessories Compatibility

Some accessories may modify the terminal block	ck's rating. See complete inf	ormation in the accessories catalog pa	-		
Description	Туре	Order Code	Pack ^(ing)	Weight	
			pieces	g (1 pce)	
1 Terminal Block Markers	MG-CPM 13	1SNB041791R0612	1680	0.273	
	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	
2 Mounting Rails	PR3.G2	1SNA164800R0300	2	718.00	
	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 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 Jumper Bars	JB10-2	1SNK910302R0000	50	4.60	
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