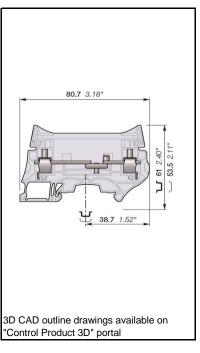
ZS10-ST-1 Screw Clamp Terminal Blocks

Test disconnect with sliding link for Potential Transformer circuits

Test terminal blocks especially designed for Potential Transformers circuits:

- low profile voltage measurement thanks to the two compact built-in test sockets compatible with DIA 4 mm 0.157 in test plugs,
- Installed with our aligned feedthrough and ground terminal blocks, you benefit of a complete and compact solution for your PT circuits.





. + - -	B	10 mm²
o <u>, </u>		6 AWG
8 mm	0.315 in	Spacing

Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight
					(1 pce) g
Grey	ZS10-ST-1	1SNK508312R0000	3472595083121	25	27.00

Declarations and Certificates

C €	CB	RoHS RoHS	c FU us USR CNR		1	EAC		
		® BV		DNV			-	

_			A 41.61
Dec	larations	and	Certificates

C€ ∷r	CE	1SND225102U10*
III 200 30	СВ	1SND161091A02*
RoHS RoHS	RoHS	1SND230516F02*
e PCs akotau	USR CNR	1SND161041A02*
®	CSA	1SND161070A02*
EAC	EAC	1SND161009A11*
BV	BV	1SND161073A02*
	DNV	1SND161087A02*

General Information

The following information mu	st be strictly adhered	to in order to g	uarantee the term	inal block electrical, me	chanical and environmenta	al performance.	
Protection	IEC 60947-1	IP10		NEMA 1			
Rail	7	TH 35-7.5, 1	TH 35-15				
Wire stripping length		13 mm	0.512 in				
		Screw clamp)	Screw rail contact (Maximum value)	Disconnect	device	
Operating tool		Flat screwdr	iver	(**************************************			
. •							
		3.5 mm	0.138 in		3.5 mm	0.138 in	
Torque		3.5 mm 1.3 N.m	0.138 in 11.5 N.m		3.5 mm 0.4 N.m	0.138 in 3.5 lb.in	

Material Specifications

Insulating material		Polyamide
CTI		600 V
Flammability	UL94	V0
	NF F 16101	I2F2
	Needle flame test EC 60615-11-5	Compliant

Connecting capacity per clar	np	Screw	clamp		
1 Rigid - Solid / Stranded conductor	Norme				
Rigid - Solid / Stranded conductor	Value	0.5 10 mm ²	24 6 AWG		
1 Flexible conductor	Norme				
r riexible conductor	Value	0.5 10 mm²			
1 Flexible conductor with non	Norme	Manufacturer data	Manufacturer data		
insulated ferrule	Value	0.5 10 mm²	24 8 AWG		
1 Flexible conductor with insulated	Norme	Manufacturer data	Manufacturer data		
ferrule	Value	0.5 6 mm²	24 10 AWG		
Cauga		A5-B5	5.2 mm		
Gauge		IEC 60947-1	0.205 in		
Ferrule maximum outer diameter or cor insulation maximum outer diameter	nductor	Ø Max.	Manufacturer data	7.5 mm	0.295 in

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

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Multi Connecting capacity per clamp

2 Rigid - Solid / Stranded	Norme			
conductors	Value	0.5 4 mm²	20 12 AWG	
2 Flexible conductors	Norme			
2 Flexible colluctors	Value	0.5 4 mm²		
2 Flexible conductors with twin	Norme	Manufacturer data	Manufacturer data	
ferrule	Value	0.5 4 mm²	20 12 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	10	0 mm²		6 AWG
Maximum Cross section	Manufacturer data 10	0 mm ²	Manufacturer data	6 AWG

Electrical characteristics Current

Rated current				50 A	
	Field and factory wiring Cat.2		UL 1059	53 A	
	Factory wiring Cat.1		UL 1059	53 A	
			CSA-C-22.2 n°158	53 A	
Maximum Exe current			IEC/EN 60079-7		
Rated short-time withstand current 1 s (Icw)				1200 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		
Max. current (45° temperature increase) / Max	. cross section (mm²)		Manufacturer data		10 mm ²
Maximum short circuit current (1s)			Manufacturer data	1200 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

reitage		
Rated voltage	IEC 60947-1	630 V
Rated voltage	UL 1059	300 V
Use Group	UL 1059	B,C
Rated voltage	CSA-C-22.2 n°158	300 V
Rated voltage Ex e	IEC/ EN 60079-7	
Rated impulse withstand voltage	IEC 60947-1	8000 V
Dielectric test voltage	IEC 60947-1	2000 V
Pollution degree	IEC 60947-1	3
Overvoltage category	IEC 60947-1	III
	•	

3

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	2.6 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

- tarea perior area particular area area area area area area area a				
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				

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	

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	
	Conditions	Number of the test method	
		Duration of test	

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Vibrations and shocks

Sinusoidal vibrations		IEC 60068-2-6		
	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		

ZS10-ST-1 Terminal Block Accessories Compatibility

	Description	Туре	Order Code	Pack ^(ing)	Weight	
				pieces	g (1 pce)	
١	Terminal Block Markers	MG-CPM 13	1SNB041791R0612	1680	0.273	
		MC812	1SNK160000R0000	22	10.00	
		MC812PA	1SNK160011R0000	1	14.00	
		MC812PA	1SNK169999R0000	20	14.00	
		UMH	1SNK900611R0000	10	0.20	
		SAT8	1SNK900616R0000	5	6.00	
	End Sections	ES10-ST	1SNK508910R0000	20	3.5	
3	End Stops	BAM4	1SNK900001R0000	50	14.00	
		BAZ1	1SNK900002R0000	50	5.30	
		BAZH1	1SNK900102R0000	20	24.00	
	Circuit Separators	CS-R3	1SNK900107R0000	20	6.40	
	Protecting Covers	СО	1SNK900604R0000	1	300.00	
	Protecting Cover Kits	KCO	1SNK900624R0000	1	47.80	
7	Lateral Jumper Bars	PC8-2	1SNA116538R1700	10	3.00	
		PC8-3	1SNA116539R1000	10	4.00	
		PC8-4	1SNA116540R2500	10	6.00	
		PC8-10	1SNA163313R2400	10	14.00	
		PC8-R1	1SNA400711R0600	10	6.60	
		PC8-R2	1SNA400712R0700	10	7.80	
		PC8-R3	1SNA400713R0000	10	9.00	
		PC8-R4	1SNA400724R0300	10	4.50	
			1SNA400842R0000			
			1SNA400843R0000			
			1SNA400849R0000			
			1SNA400850R0000			
8	Short Circuit Plugs	BP8.A4	1SNA173888R2000	10		

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