

VSSC
VSSC6 RS485 DP**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



Data surge protection

- for RS 422 and RS 485 signals
- Can also be connected as T branch with K21 wall-mounted housing

General ordering data

Type	VSSC6 RS485 DP
Order No.	1065010000
Version	Surge protection for instrumentation and control, 12 V, 500 mA, IEC 61643-21
GTIN (EAN)	4032248830244
Qty.	10 pc(s).

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Technical data
Dimensions and weights

Width	6.2 mm	Width (inches)	0.244 inch
Height	88.5 mm	Height (inches)	3.484 inch
Depth	81 mm	Depth (inches)	3.189 inch
Net weight	42 g		

Temperatures

Humidity	5...96 %	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...80 °C		

Probability of failure

λges	60	MTTF	1,903 Jahre
PFH in 1*10 ⁻⁹ per hour	3.25	SFF	94.58 %
SIL in compliance with IEC 61508	3		

CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I _I	500 mA
Input voltage, max. U _i	15 V	Internal capacity, max. C _I	7 nF
Internal inductance, max. L _i	0 μH		

General data

Colour	Black	Design	Terminal
Isolating function	No	Mounting rail	TS 35
Optical function display	No	Protection degree	IP20
Segment	Instrumentation and Control	UL 94 flammability rating	V-0

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Rated data IEC / EN

Discharge current I _{max} (8/20μs) wire-PE	10 kA	Discharge current I _{max} (8/20μs) wire-wire	10 kA
Discharge current I _n (8/20μs) wire-PE	2.5 kA	Discharge current I _n (8/20μs) wire-wire	2.5 kA
Discharge current, max. (8/20 μs)	20 kA	Insertion loss	113.7 MHz
Lightning test current I _{imp} (10/350 μs)	0.5 kA	Lightning test current, I _{imp} (10/350 μs)	0.5 kA
Max. continuous voltage, U _c (DC)	15 V	Wire-PE	0.5 kA
Protection level U _p (typ.)	≤ 100 V	Overload - failure mode	Modus 2
Rated current I _N	500 mA	Pulse-reset capacity	≤ 15 ms
Requirements category acc. to IEC 61643-21	C2, C3, D1	Rated voltage (DC)	12 V
Standards	IEC 61643-21	Signal transmission properties (-3 dB)	113.6 MHz
Surge current-carrying capacity C3	10 A 10/1000 μs	Surge current-carrying capacity C2	2.5 kA 8/20 μs 5 kV 1.2/50 μs
Voltage type	AC	Surge current-carrying capacity D1	0.5 kA 10/350 μs
		Volume resistance	1.8 Ω 10 %

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Technical data

Further details of approvals

GOST certificate GOST-Zertifikat

Connection data

Type of connection	Screw connection, Torx® T15, Slotted 0.8 x 4	Tightening torque, min.	0.5 Nm
Tightening torque, max.	0.8 Nm	Clamping range, min.	0.5 mm²
Clamping range, max.	4 mm²	Wire cross-section, solid, min.	0.5 mm²
Wire cross-section, solid, max.	6 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm²	Connection cross-section, stranded, min.	0.5 mm²
Connection cross-section, stranded, max.	4 mm²		

Rated data UL

Certificate No. (UL) E311081 UL certificate UL Zertifikat

Ratings IECEx/ATEX/cUL

cUL certificate cUL Certificate

Classifications

ETIM 3.0	EC000943	ETIM 4.0	EC000943
ETIM 5.0	EC000943	ETIM 6.0	EC000943
UNSPSC	30-21-19-21	eClass 5.1	27-13-08-01
eClass 6.2	27-13-08-05	eClass 7.1	27-13-08-09
eClass 8.1	27-13-08-11	eClass 9.0	27-13-08-11
eClass 9.1	27-13-08-07		

Product information

Descriptive text ordering data End plate AP VSSC6 1063110000
 Descriptive text accessories Screwdrivers: Torx® 9009170000 Slot 0.8x4.0 9008340000 EMC Set: 1067470000 Marker: WS10/6 1818400000; DEK 6 0468560000; DEK 5 1768260000; SNAPMARK 1805880000

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of Conformity	SIL Paper CE PAPER
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet VSSC

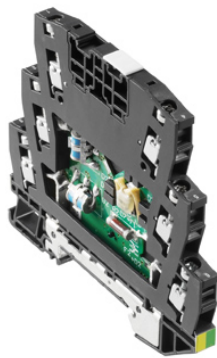
Creation date 14 February 2018 16:58:13 CET

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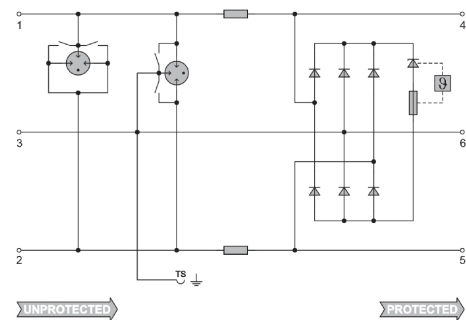
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Drawings



Similar to illustration



Circuit diagram

