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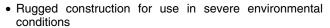


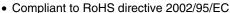
Fixed Wirewound High Power Vitreous Resistors Electrical Traction Model



FEATURES

- 95 W to 800 W at 25 °C
- NF C 93-214
- RB 25 x 168, RB 30 x 250





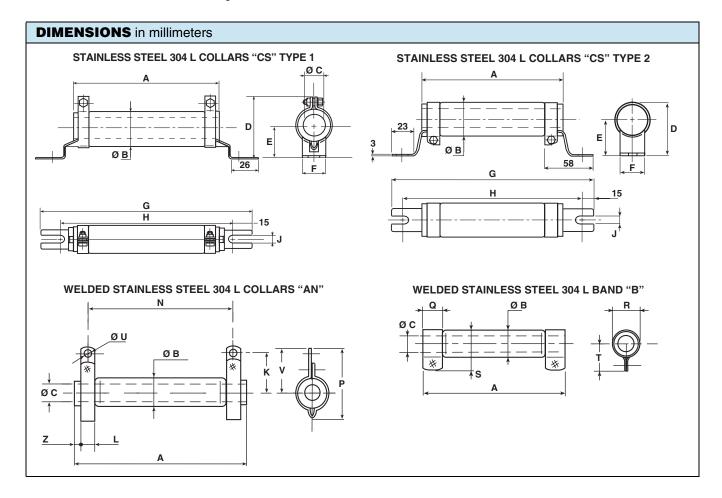


Compilant to Florio directive 2002/33/20

The RWST vitreous wirewound high power resistors are known for their excellent reliability which has developed out of the Vishay Sfernice experience over several decades in the field of high current applications.

Extremely severe conditions of use are encountered in electrical traction including repeated overloads. To withstand such conditions the new RWST model is extremely rugged and is manufactured to a very carefully monitored process using the best materials.

NF F 16101, 10/1988 and 16102, 04/1992: Not applicable (our parts are made of metallic and refractory materials). NF C 93-214. Performances according to NF C 93-214.



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DIMENSIONS in millimeters												
SERIES	CONNECTIONS	A ± 2	Ø B MAX.	Ø C MIN.	D	E	F ± 0.5	G - 4/+ 0	H - 4/+ 0	J ± 0.5	К	L + 0.5 + 0
RWST 25 x 138	AN-B CS type 1	138	28	12	50 ± 1.5	27 ± 1	24	199	169	6.5	28.5 ± 1	9
RWST 25 x 168	AN-B CS type 1	168	28	12	50 ± 1.5	27 ± 1	24	229	199	6.5	28.5 ± 1	9
RWST 30 x 250	AN-B CS type 1	250	33	17	60 ± 1.5	30 ± 1	25	317	287	9	31± 1	13
RWST 40 x 370	AN CS type 2	370	45	22	69 max.	45 ± 1.5	30	432	405	9	45 ± 1.5	18
RWST 50 x 373	AN CS type 2	373	53	27.1	80 max.	51 ± 1.5	30	432	405	9	51 ± 1.5	18
SERIES	CONNECTIONS	N ± 2	Р	Q - 0/+ 5	R - 0.3/+ 0.9	S MAX.	T ± 1	Øυ	V	Z	AVERAGE UNIT WEIGHT IN g (CS collars)	
RWST 25 x 138	AN-B CS type 1	117 ± 2	51.5 ± 1.5	15	26	38.5	23.5	5.7	33.5 ± 1	6	225	
RWST 25 x 168	AN-B CS type 1	147 ± 2	50 ± 1.5	15	26	38.5	23.5	5.7	33.5 ± 1	6	250	
RWST 30 x 250	AN-B CS type 1	227 ± 2	55 ± 1.5	18	31	43.5	26	5.7	36 ± 1	5	445	
RWST 40 x 370	AN CS type 2	332 ± 3	81.5 max.	ı	-	-	-	9.2	57 ± 1.5	10	1400	
RWST 50 x 373	AN CS type 2	332 ± 3	92.5 max.	-	-	-	-	9.2	63 ± 1.5	11.5	22	00

MECHANICAL SPECIFICATIONS

Mechanical Protection Vitreous enamel **Resistive Element** Ni-Cr wire

CS supporting collars Connections on request

AN Collar or B **Average Unit Weight** 225 g to 2200 g

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits - 55 °C + 450 °C - 55 °C/+ 200 °C/56 days **Climatic Category**

ELECTRICAL SPECIFICATIONS							
Resistance Range	2.7 Ω to 430 k Ω (E12, E24 preferred series values)						
Resistance Tolerance							
Standard	± 5 %						
Power Rating	95 W to 800 W at 25 °C						
Temperature Coefficient	75 ppm/°C (typical)						
Shelf Life	0.1 % year (typical)						

PERFORMANCE										
TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES AND DRIFTS							
Short Time Overload	10 $P_{\rm r}$ during 5 s Voltage limited at < 5000 V	2 % or 0.05 Ω	0.5 %							
Climatic Sequence	- 55 °C + 200 °C	2 % or 0.05 Ω Insulation resistance 100 M Ω	0.5 %							
Humidity (Steady State)	56 days 95 % relative humidity	3 % or 0.05 Ω Insulation resistance 100 M Ω	0.5 %							
Thermal Shock	Load at 100 % P_r followed by cold temperature exposure at - 55 °C/15'	2 % or 0.05 Ω	0.5 %							
Shock	Severity 50 A 9 shocks/each side	1 % or 0.05 Ω	0.25 %							
Vibration	Severity 55B	1 % or 0.05 Ω	0.25 %							
Terminal Strength AN B	Traction 40 Ncm Torque 60 Ncm	1 % or 0.05 Ω	0.5 %							
Load Life	90'/30' cycle	5 %	1000 h 1 %							
Load Life	1000 h at <i>P</i> r 25 °C	3 /6	5000 h 2 %							

SPECIAL FEATURES										
RWST STYLE	25 x	138	25	x 168	30	x 250	40	x 370	50	x 373
Designation NF C 93-214	=		RB 25 x 168		RB 30 x 250		=		-	
Power Rating at 25 °C	95 W		160 W		280 W		500 W		700 W	
Maximum Power Rating at 25 °C	110 W		180 W		320 W		600 W		800 W	
Ohmic Range (E12, E24 series)	2.7 Ω	82 kΩ	2.7 Ω	100 kΩ	4.7 Ω	220 kΩ	8.2 Ω	360 k Ω	12 Ω	430 kΩ
Limiting Element Voltage	1400 V		1900 V		3000 V		4500 V		5000 V	
Critical Resistance	18	kΩ	20) kΩ	30) kΩ	36	6 kΩ	30) kΩ

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For technical questions, contact: sfer@vishay.com

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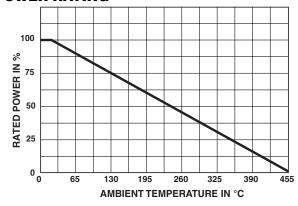


NON INDUCTIVE WINDING

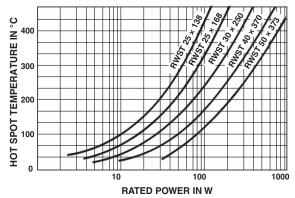
For high frequencies, low self induction resistors are available with special windings. RWSTNI designation.

MODEL AND STYLE	RWSTNI	RWSTNI	RWSTNI	RWSTNI	RWSTNI	
	25 x 138	25 x 168	30 x 250	40 x 370	50 x 373	
OHMIC RANGE	22 Ω	22 Ω	120 Ω	120 Ω	150 Ω	
(E12 SERIES)	2.5 kΩ	4 kΩ	6.8 kΩ	8.2 kΩ	8.2 kΩ	

POWER RATING



TEMPERATURE RISE



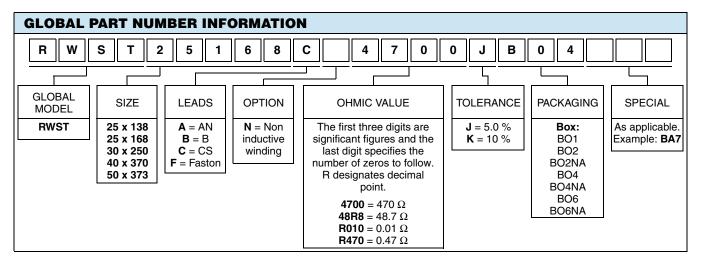
MARKING

Vishay Sfernice trademark, model, style, nominal resistance (in Ω), tolerance (in %), manufacturing date.

PACKAGING

Box: Fixed quantity depending on size and connections

ORDE	ORDERING INFORMATION												
RWST	25 x 138			В	56U	± 5 %	B06	е					
MODEL	STYLE	NON-INDUCTIVE WINDING	SPECIAL DESIGN	CONNECTIONS	OHMIC VALUE	TOLERANCE	PACKAGING	LEAD (Pb)-FREE					
		Optional	Optional		Custom items are subject to extra-charge and min. order. Please see price list.								



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