



Fixed Wirewound High Power Vitreous Resistors Electrical Traction Model



FEATURES

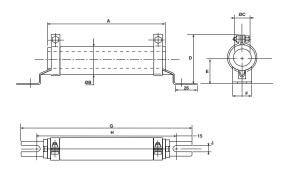
- 95 Watt to 800 Watt at 25°C
- NF C 93-214
- RB 25 x 168, RB 30 x 250
- Rugged construction for use in severe environmental conditions

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.

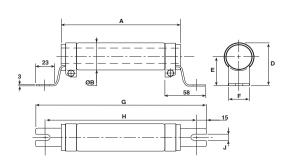
Extremely severe conditions of use are encountered in electrical traction including repeated overloads. To withstand such conditions the new RWST model is extremely rugged and is manufactured to a very carefully monitored process using the best materials

DIMENSIONS in millimeters

STAINLESS STEEL 304 L COLLARS "CS" type



STAINLESS STEEL 304 L COLLARS "CS" type



DIMENSIONS in milling	meters				
RWST STYLE	25 x 138	25 x 168	30 x 250	40 x 370	50 x 373
Connections	CS Type 1/B/AN	CS Type 1/B/AN	CS Type 1/B/AN	CS Type 2/B/AN	CS Type 2/B/AN
A ± 2	138	168	250	370	373
Ø B max.	28	28	33	45	53
Ø C min.	12	12	17	22	27.1
D	50 ± 1.5	50 ± 1	60 ± 1.5	69 max.	80 max.
Е	27 ± 1	27 ± 1	30 ± 1	45 ± 1.5	51 ± 1.5
F ± 0.5	24	24	25	30	30
G-4 -0	199	229	317	432	432
H ⁻⁴ ₋₀	169	199	287	405	405
J ± 0.5	6.5	6.5	9	9	9
Average unit weight in g (CS collars)	225	250	445	1400	2200

Document Number: 50017 Revision 13-Jan-04

RWST

Vishay Sfernice Fixed Wirewound High Power Vitreous Resistors Electrical Traction Model



MECHANICAL SPECIFICATIONS

Mechanical Protection Vitreous enamel

Resistive Element Ni-Cr wire

Connections CS supporting collars

AN Collar or B on Request
Average Unit Weight 225 to 2200g

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits $-55^{\circ}\text{C} + 450^{\circ}\text{C}$

Climatic Category – 55°C/+ 200°C/56 days

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

PERFORMANCE						
TESTS		COND	ITIONS	REQUIREMENTS	TYPICAL VALUES AN	D DRIFTS
Short Time Overload			luring 5s ed at < 5000V	2% or 0.05 Ω	0.5%	
Climatic Sequence		– 55°C	+ 200°C	2% or 0.05Ω Insulation resistance 100M Ω	0.5%	
Humidity (Steady State)			days ive humidity	3% or 0.05Ω Insulation resistance 100M Ω	0.5%	
Thermal Shock			Pr followed by cold cosure at -55°C/15'	2% or 0.05Ω	0.5%	
Shock			rity 50A s/each side	1% or 0.05Ω	0.25%	
Vibration		sevei	rity 55B	1% or 0.05Ω	0.25%	
Terminal Strength	AN B		on 40Ncm e 60Ncm	1% or 0.05Ω	0.5%	
Load Life			0' cycle	F0/	1000h	1%
LOAD LIIE		1000h a	at Pr 25°C	5%	5000h	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	5 x 168	RB 3	0 x 250			_	
Power Rating at 25°C	9	5W	16	W0	28	30W	50	WOO	70	00W
Maximum Power P max.	11	0W	18	80W	320W		600W		800W	
Ohmic Range (E12, E24 series)	2.7Ω	82kΩ	2.7Ω	100kΩ	4.7Ω	220kΩ	8.2Ω	360kΩ	12Ω	430kΩ
Limiting Element Voltage	14	00V	19	00V	30	V00V	45	500V	50	V00V
Critical Resistance	18	BkΩ	20)kΩ	30	OkΩ	3	6kΩ	3	OkΩ

NON INDUCTIVE WINDING

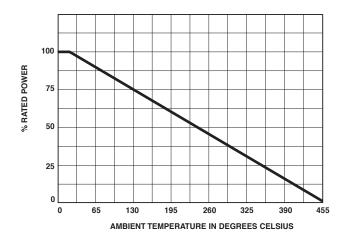
For high frequencies, low self induction resistors are available with special windings. RWSTNI designation.

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

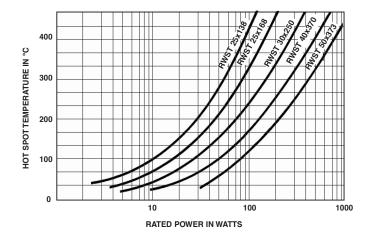
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Vishay Sfernice

POWER RATING CHART



TEMPERATURE RISE



MARKING

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

RWST	30 x 250	NI		CS	$\mathbf{6.8k}\Omega$	± 5%
MODEL	STYLE	NON-INDUCTIVE BOBINAGE	SPECIAL DESIGN	CONNECTIONS	OHMIC VALUE	TOLERANCE
		Optional	Optional	to e	Custom items are subj extra-charge and min. Please see price list	ect order. :.

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Document Number: 91000 www.vishay.com
Revision: 08-Apr-05 1