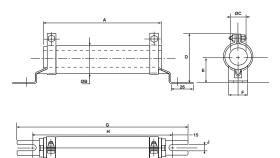


The RWST vitreous wirewound high power resistors are known for their excellent reliability which has developed out of the VISHAY SFERNICE experience over several decades in the field of high current applications.

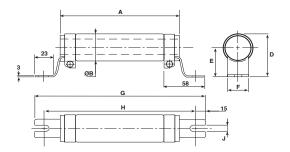
Extremely severe conditions of use are encountered in electrical traction including repeated overloads. To withstand such conditions the new RWST model is extremely rugged and is manufactured to a very carefully monitored process using the best materials

DIMENSIONS in millimeters

STAINLESS STEEL 304 L COLLARS "CS" type



STAINLESS STEEL 304 L COLLARS "CS" type



DIMENSIONS in millimeters							
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.		
E	27 ± 1	27 ± 1	30 ± 1	45 ± 1.5	51 ± 1.5		
F ± 0.5	24	24	25	30	30		
G_{-0}^{-4}	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		

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°C + 450°C
Climatic Category	– 55°C/+ 200°C/56 days

ELECTRICAL SPECIFICATIONS						
Resistance Range	2.7 Ω to 430k Ω					
	(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	CONDITIONS	REQUIREMENTS	TYPICAL VALUES AND DRIFTS					
Short Time Overload	10Pr during 5s Voltage limited at < 5000V	2% or 0.05Ω	0.5%					
Climatic Sequence	– 55°C + 200°C	2% or 0.05Ω Insulation resistance 100M Ω	0.5%					
Humidity (Steady State)	56 days 95% relative humidity	3% or 0.05Ω Insulation resistance $100M\Omega$	0.5%					
Thermal Shock	Load at 100% Pr followed by cold temperature exposure at -55°C/15'	2% or 0.05Ω	0.5%					
Shock	severity 50A 9 shocks/each side	1% or 0.05Ω	0.25%					
Vibration	severity 55B	1% or 0.05Ω	0.25%					
Terminal Strength B	Traction 40Ncm Torque 60Ncm	1% or 0.05Ω	0.5%					
Load Life	90'/30' cycle	5%	1000h 1%					
	1000h 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	IF C 93-214 –		RB 25 x 168		RB 30 x 250		_		-	
Power Rating at 25°C 95W		16	50W	280W		500W		700W		
Maximum Power P max. Rating at 25°C P max.	110W		180W		320W		600W		800W	
Ohmic Range (E12, E24 series)	2.7Ω	82kΩ	2.7Ω	$100 k\Omega$	4.7Ω	220kΩ	8.2Ω	$360 k\Omega$	12Ω	430kΩ
Limiting Element Voltage	1400V		1900V 3000V		4500V		5000V			
Critical Resistance	18	βkΩ	20	ĴkΩ	3	OkΩ	30	6kΩ	3	0kΩ

NON INDUCTIVE WINDING

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

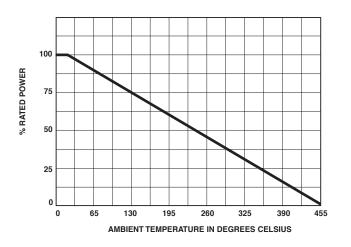
MODEL AND	RWSTNI	RWSTNI	RWSTNI	RWSTNI	RWSTNI
STYLE	25 x 138	25 x 168	30 x 250	40 x 370	50 x 373
Ohmic range	22Ω	22Ω	120Ω	120Ω	150Ω
(E12 series)	2.5kΩ	4kΩ	6.8kΩ	8.2kΩ	8.2kΩ



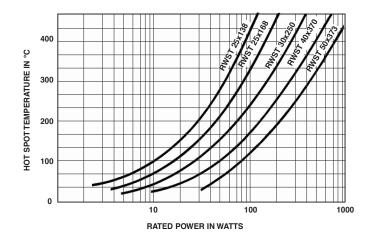
Fixed Wirewound High Power Vitreous Resistors Electrical Traction Model

Vishay Sfernice

POWER RATING CHART



TEMPERATURE RISE



MARKING

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

DRDERING INFORMATION									
RWST	30 x 250	NI		CS	6.8k Ω	± 5%			
MODEL	STYLE	NON-INDUCTIVE BOBINAGE	SPECIAL DESIGN	CONNECTIONS	OHMIC VALUE	TOLERANCE			
		Optional	Optional	to e	Custom items are subject to extra-charge and min. order. Please see price list.				
					Please see price list				



Vishay

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