

Flame Proof (Enameled Glass) Wire Wound Variable Resistors

RGY-Type (RoHS-compliant products)

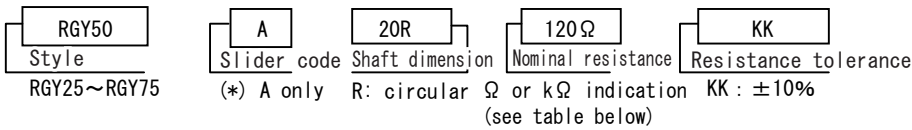
Introduction

Standard type of power variable resistors. Manufactured in accordance with JIS-C-6450 standard; resistors of up to 75W power are coated with flame proof coating, improving protection against fire and melting.

Features

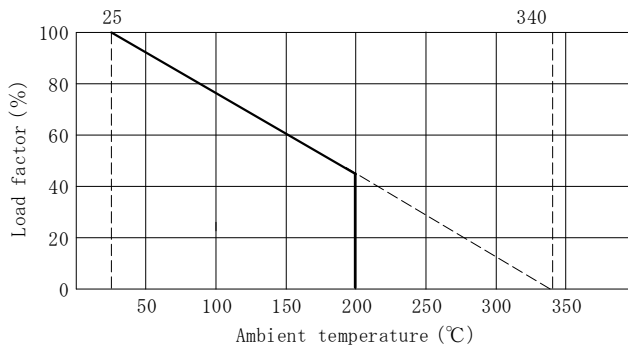
1. Large capacity variable resistor ···· Produced in wide range of power from 25W to 75W
2. Flame proof finish ···· (RGY type) Improved protection against fire and melting during overload at low cost.

Type descriptions



Standard nominal resistance values						
2	2.5	3	4	5	6	7.5
10	12	15	20	30	50	75
100	150	200	250	300	500	750
1000	1500	2000	3000			

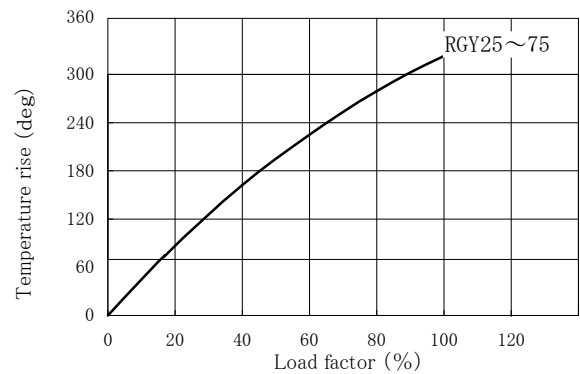
Load derating curve



Characteristic

Test items	Test method	Specified value
Remain resistance		0.2Ω or lower or 0.2% or lower
Insulation resistance	DC 500V megger	100MΩ or higher
Withstanding voltage	AC1500V for 1 min.	No breakdown
Rated load	Rated voltage for 45 min.	340°C MAX
Terminal strength	45N	±(1%+0.05Ω)
Vibration	10 - 55 - 10Hz for 1 min. 1.5mm in 2 directions for 4 hrs in total	±(2%+0.05Ω)
Moisture resistance	40°C 90-95% for 150 hrs. DC 120V applied	±(10%+0.05Ω)
Load life of rotation	Rated power applied 500 sliding movements	±(5%+0.05Ω)
Load life	Rated power for 500 hrs 1.5 hrs ON - 0.5 hrs OFF	±2%MAX

Temperature rise curve (reference)



Dimensions & Resistance range

Style	Power (W)		Resistance Range (Ω)	Dimensions (mm)							Mechanical rotation angle (°) ±10	Weight (g)	Low Limit (mm) R
	Rating	Working		A ±0.5	B	C	D ±0.1	E (*1)	F ±3	d			
RGY25	25	15	2~1.5K	25	42±3	34±3	6	20±1	32	M3	280	70	20
RGY50	50	30	2~3.0K	25	55±5	43±3	6	20±1	40	M3	290	120	20
RGY75	75	45	2~3.0K	25	55±5	44±3	6	20±1	40	M3	280	140	20

(*1)E is the length of the standard shaft.

