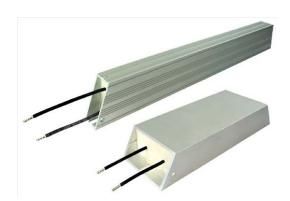




# **Aluminum Housed Compact Wirewound Resistor**



#### **FEATURES**

- Power rating up to 500 W
- · High overload capacity
- Protection IP20 or IP65
- · Enhanced humidity protection
- Complete housed construction
- Multiple construction for higher power rating
- · Heatsink mounting
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>



GREEN

(5-2008)

#### **APPLICATIONS**

- · Drive controllers
- Railway
- Frequency inverter
- Renewable energy

STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	POWER RATING W P <sub>40 °C</sub>	RESISTANCE RANGE (1) Ω	TEMPERATURE COEFFICIENT ppm/K	TOLERANCE ± %	PROTECTION	MAX. PERMISSIBLE OPERATING VOLTAGE	
VACR0500	50	3.0 to 560	50 to 150	10	IP65	UL 600 V/UL 1000 V	
VACR1000		3.0 to 560	50 to 150	10	IP65	EN 1000 V DC	
VACR1001	100	2.7 to 910	50 to 150	10	IP65	UL 600 V/UL 1000 V	
VACR1003		6.2 to 1.2K	50 to 150	10	IP65	UL 600 V/UL 1000 V	
VACR1202	120	4.7 to 1.0K	50 to 150	10	IP65	UL 600 V/UL 1000 V	
VACR1301	130	2.7 to 910	50 to 150	10	IP65	EN 1000 V DC	
VACR1501		2.7 to 910	50 to 150	10	IP20	UL 600 V/UL 1000 V	
VACR1502		4.7 to 1.0K	50 to 150	10	IP65	EN 1000 V DC	
VACR1503	150	6.2 to 1.2K	50 to 150	10	IP65	EN 1000 V DC	
VACR1504		6.2 to 1.2K	50 to 150	10	IP65	UL 600 V/UL 1000 V	
VACR1505		9.1 to 1.5K	50 to 150	10	IP65	UL 600 V/UL 1000 V	
VACR1804	180	6.2 to 1.2K	50 to 150	10	IP65	EN 1000 V DC	
VACR1806	180	8.2 to 1.8K	50 to 150	10	IP65	UL 600 V/UL 1000 V	
VACR2001	000	3.3 to 910	50 to 150	10	IP20	EN 1000 V DC	
VACR2005	200	9.1 to 1.5K	50 to 150	10	IP65	EN 1000 V DC	
VACR2502	050	4.7 to 1.0K	50 to 150	10	IP20	UL 600 V/UL 1000 V	
VACR2506	250	8.2 to 1.8K	50 to 150	10	IP65	EN 1000 V DC	
VACR3002	200	4.7 to 1.0K	50 to 150	10	IP20	EN 1000 V DC	
VACR3004	300	6.2 to 1.2K	50 to 150	10	IP20	UL 600 V/UL 1000 V	
VACR4004	400	6.2 to 1.2K	50 to 150	10	IP20	EN 1000 V DC	
VACR4006	400	8.2 to 1.8K	50 to 150	10	IP20	UL 600 V/UL 1000 V	
VACR5006	500	8.2 to 1.8K	50 to 150	10	IP20	EN 1000 V DC	

#### Notes

- VACR100 and VACR200 as special flat version on request.
- (1) Resistance value to be selected from E24 series, other values on request.



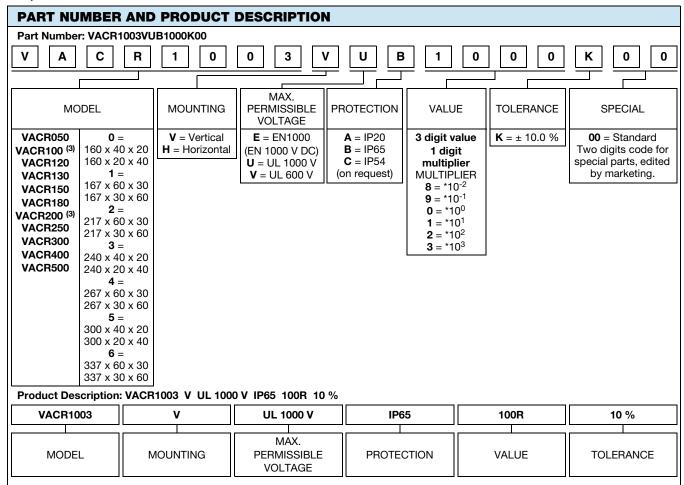
Vishay Draloric



PULSE POWER <sup>(1)</sup> in W at T <sub>a</sub> = 40 °C										
	MAX. PERMISSIBLE OPERATING VOLTAGE	SIZE: 40 mm x 20 mm			SIZE: 60 mm x 30 mm					
MODEL		PULSE TIME (2)								
		6 %	15 %	25 %	40 %	6 %	15 %	25 %	40 %	
VACR050	UL 600 V/UL 1000 V	550	200	150	100	-	-	-	-	
VACR100 (3)	UL 600 V/UL 1000 V	950	400	250	150	900	500	300	200	
	EN 1000 V DC	1600	650	400	250	-	-	-	-	
VACR120	UL 600 V/UL 1000 V	-	=	-	-	1080	600	360	240	
VACR130	EN 1000 V DC	-	=	-	-	1170	650	390	260	
VACR150	UL 600 V/UL 1000 V	1600	650	400	250	1350	750	450	300	
	EN 1000 V DC	2200	900	550	350	1350	750	450	300	
VACR180	UL 600 V/UL 1000 V	-	=	-	-	1620	900	540	360	
	EN 1000 V DC	-	-	-	-	1620	900	540	360	
VACR200 (3)	EN 1000 V DC	3200	1300	750	500	1800	1000	600	400	
VACR250	UL 600 V/UL 1000 V	-	-	-	-	2250	1250	750	500	
	EN 1000 V DC	-	-	-	-	2250	1250	750	500	
VACR300	UL 600 V/UL 1000 V	-	-	-	-	2700	1500	900	600	
	EN 1000 V DC	-	-	-	-	2700	1500	900	600	
VACR400	UL 600 V/UL 1000 V	-	-	-	-	3600	2000	1200	800	
	EN 1000 V DC	-	-	-	-	3600	2000	1200	800	
VACR500	EN 1000 V DC	-	-	-	-	4500	2500	1500	1000	

#### **Notes**

<sup>(2)</sup> Cycle duration of 120 s

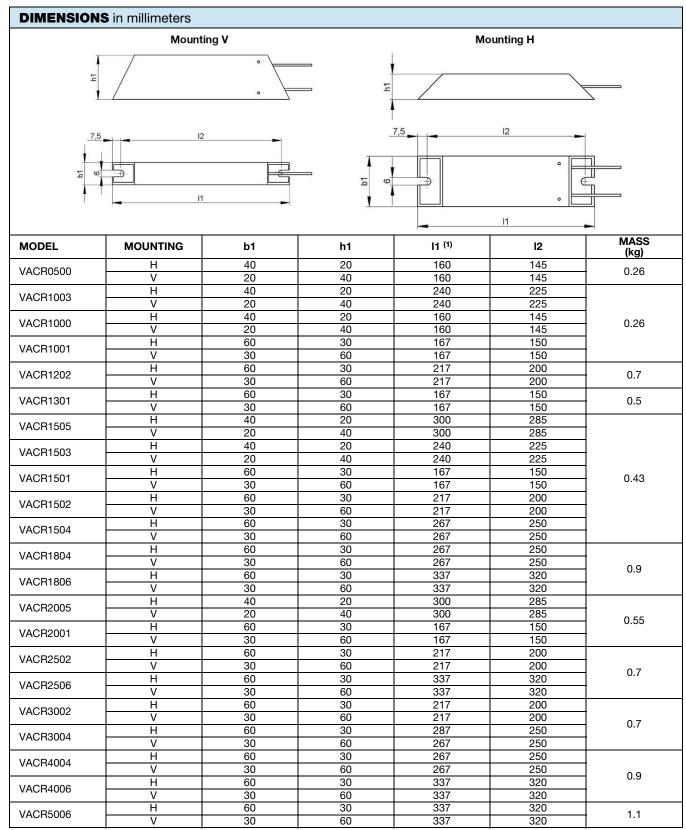


#### Note

<sup>(1)</sup> Approximate value (depending on resistance)

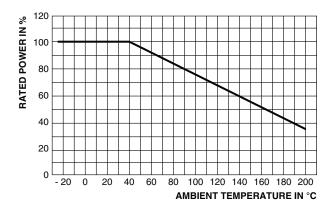
<sup>(3)</sup> Special flat version on request.





#### Notes

- VACR100 and VACR200 as special flat version on request.
- (1) Mounting note: The length I1 increases at 0.85 mm/100 mm while heating (mounting with fixed and movable bearing).



TEMPERATURE							
POWER RATING W	SURFACE TEMPERATURE at T <sub>40 °C</sub>	MAX. PERMISSIBLE OPERATING VOLTAGE V	SIZE mm				
50 to 100	180	UL 600 V/UL 1000 V	40 x 20				
100 to 200	250	EN 1000 V DC	40 x 20				
200 to 500	360	EN 1000 V DC	60 x 30				
150 to 400	340	UL 600 V/UL 1000 V	60 x 30				
130 to 250	230	EN 1000 V DC	60 x 30				
100 to 180	210	UL 600 V/UL 1000 V	60 x 30				



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