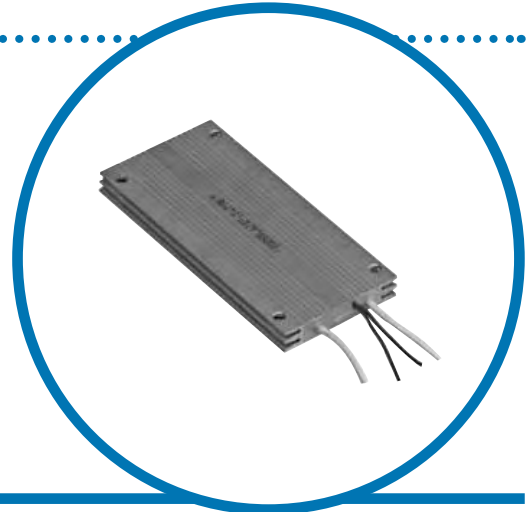


Low Profile Aluminium Housed Power Resistors

WCCHB / WCDH Series

OBSOLETE

- Low profile aluminium casing
- Up to 1.8kW rating on heatsink
- Up to 900W rating without heatsink
- Excellent pulse load performance
- Ideal for dynamic braking in 2 - 30kW drives
- High isolation voltage of 3.5kV
- RoHS compliant, non-flammable construction

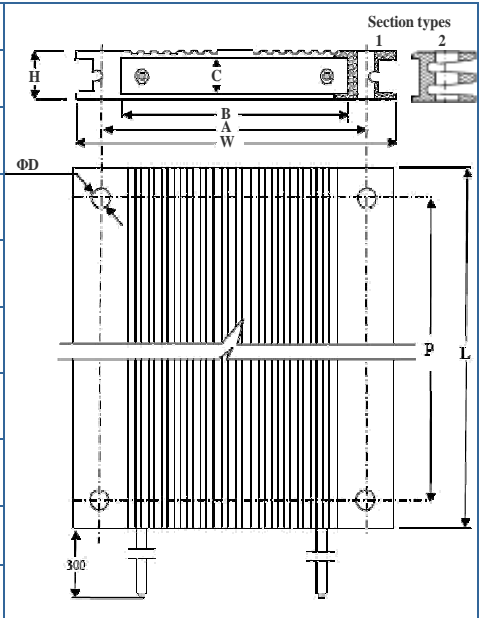


Electrical Data

		WCDH600	WCCHB110	WCDH900	WCCHB166	WCDH1300	WCCHB216	WCCHB270	WCCHB320
Power rating (on $\leq 0.5^{\circ}\text{C/W}$ heatsink)	watts	600	650	900	950	1300	1400	1600	1800
Power rating (in free air)	watts	250	300	400	480	550	600	770	900
Overload rating (5s, non-repetitive)	watts	5,000	4,000	8,000	5,500	10,000	8,000	10,000	12,000
Resistance range	ohms	2R2 - 200R		3R3 - 250R		3R3 - 300R		4R7 - 390R	5R1 - 470R
TCR	ppm/ $^{\circ}\text{C}$	100							
Resistance tolerance	%	5, 10							
Dielectric withstand (50Hz AC, 60s)	kV rms	3.5							
Insulation resistance (1kV)	ohms	>1G							
Ambient temperature range	$^{\circ}\text{C}$	-40 to +90							

Physical Data

Dimensions in mm, weight in g										
	L ± 1	P ± 1	H nom	W nom	A nom	B nom	C nom	ΦD nom	Section type	Wt. nom
WCDH600	102	81	12.5	68	57	45	9	5.5	2	195
WCCHB110	110	98	15	76	60	53	10.5	4.8	1	220
WCDH900	145	124	12.5	68	57	45	9	5.5	2	270
WCCHB166	166	154	15	76	60	53	10.5	4.8	1	350
WCDH1300	195	174	12.5	68	57	45	9	5.5	2	365
WCCHB216	216	204	15	76	60	53	10.5	4.8	1	480
WCCHB270	270	258	15	76	60	53	10.5	4.8	1	620
WCCHB320	320	2 x 154	15	76	60	53	10.5	4.8	1	790



Construction

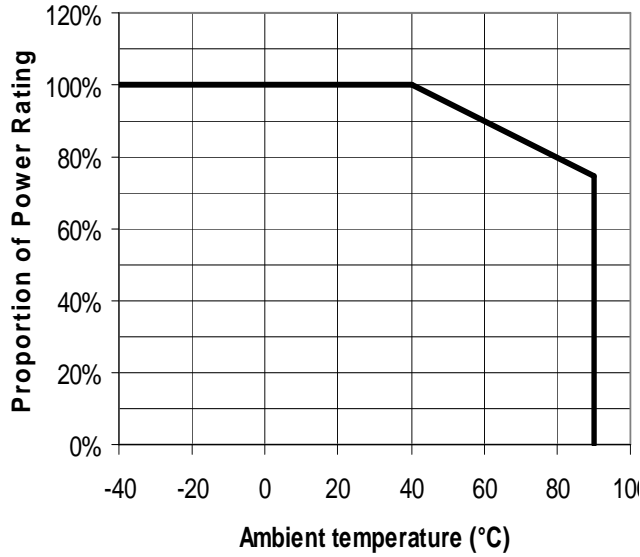
A wirewound element on an insulating support is held in the aluminium profile in a symmetrical manner to allow for thermal expansion during high loads. An optional internal thermostat is fitted. The housing is then filled with quartz sand, MgO or Al_2O_3 to spread the heat effectively and minimise surface temperature rise. The termination wires are 300mm long style 1659 PTFE cables, AWG18/16/14 in natural colour. Standard protection is IP45; IP56 is optional.

General Note

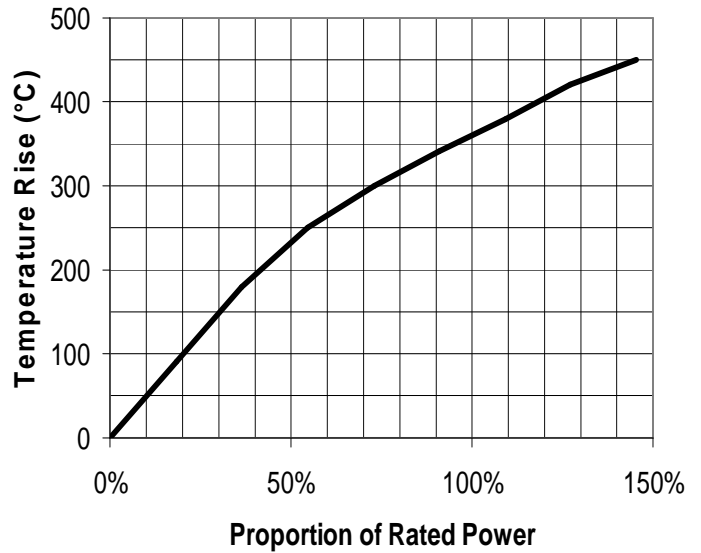
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Thermal and Overload Data

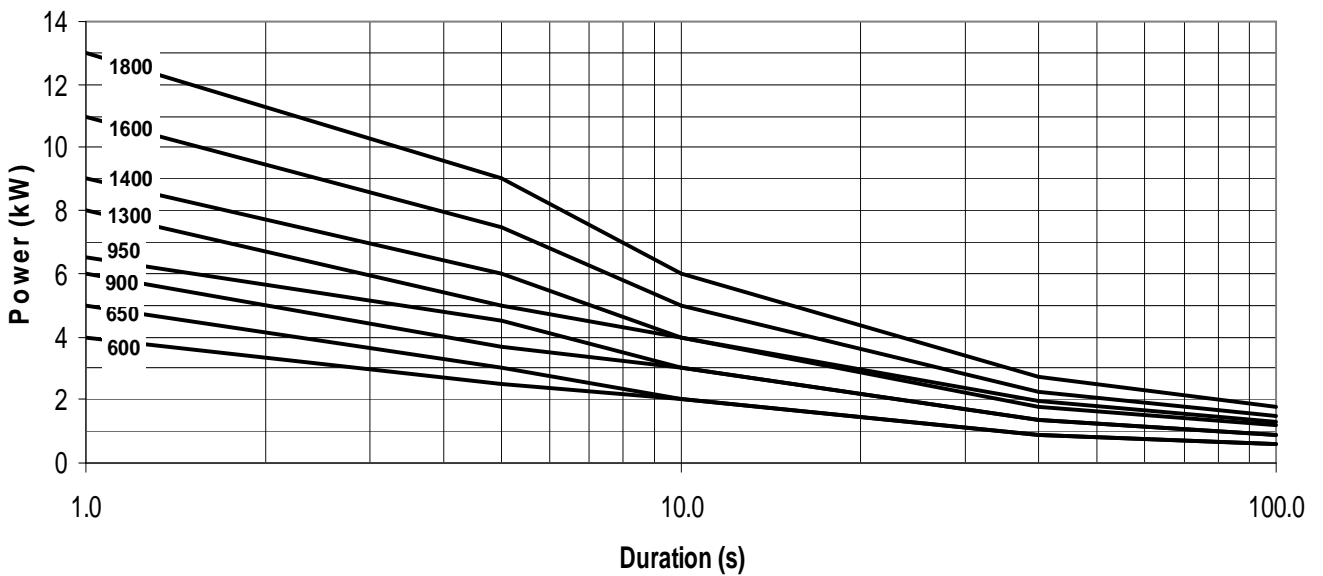
Temperature Derating



Surface Temperature Rise



Repetitive Overload (120s cycle, heatsink mounted)



General Note

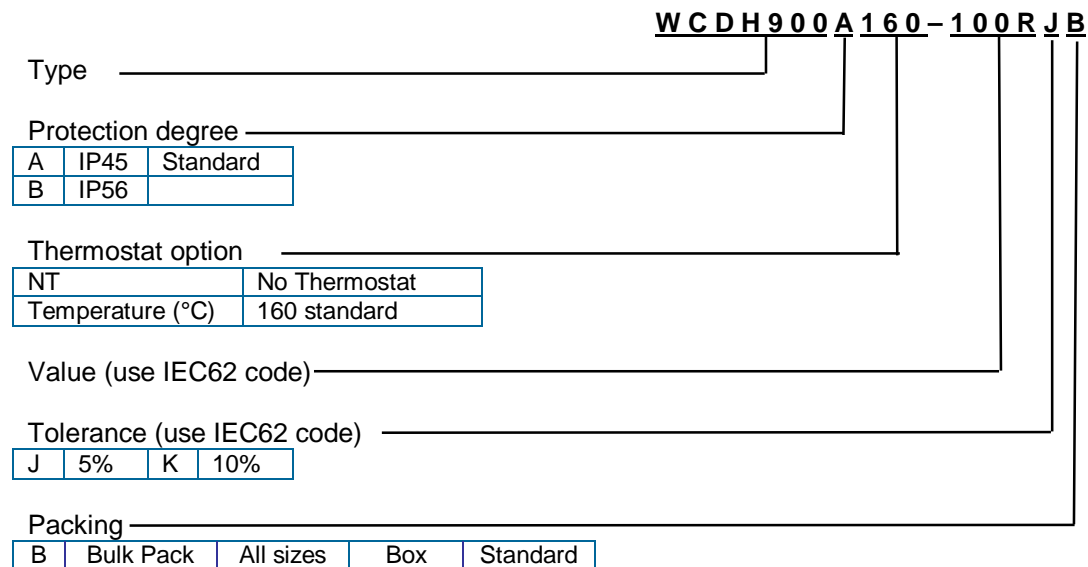
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Ordering Procedure

Example: WCDH900 with IP45 protection and a 160°C thermostat at 100 ohms and 5% tolerance:



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