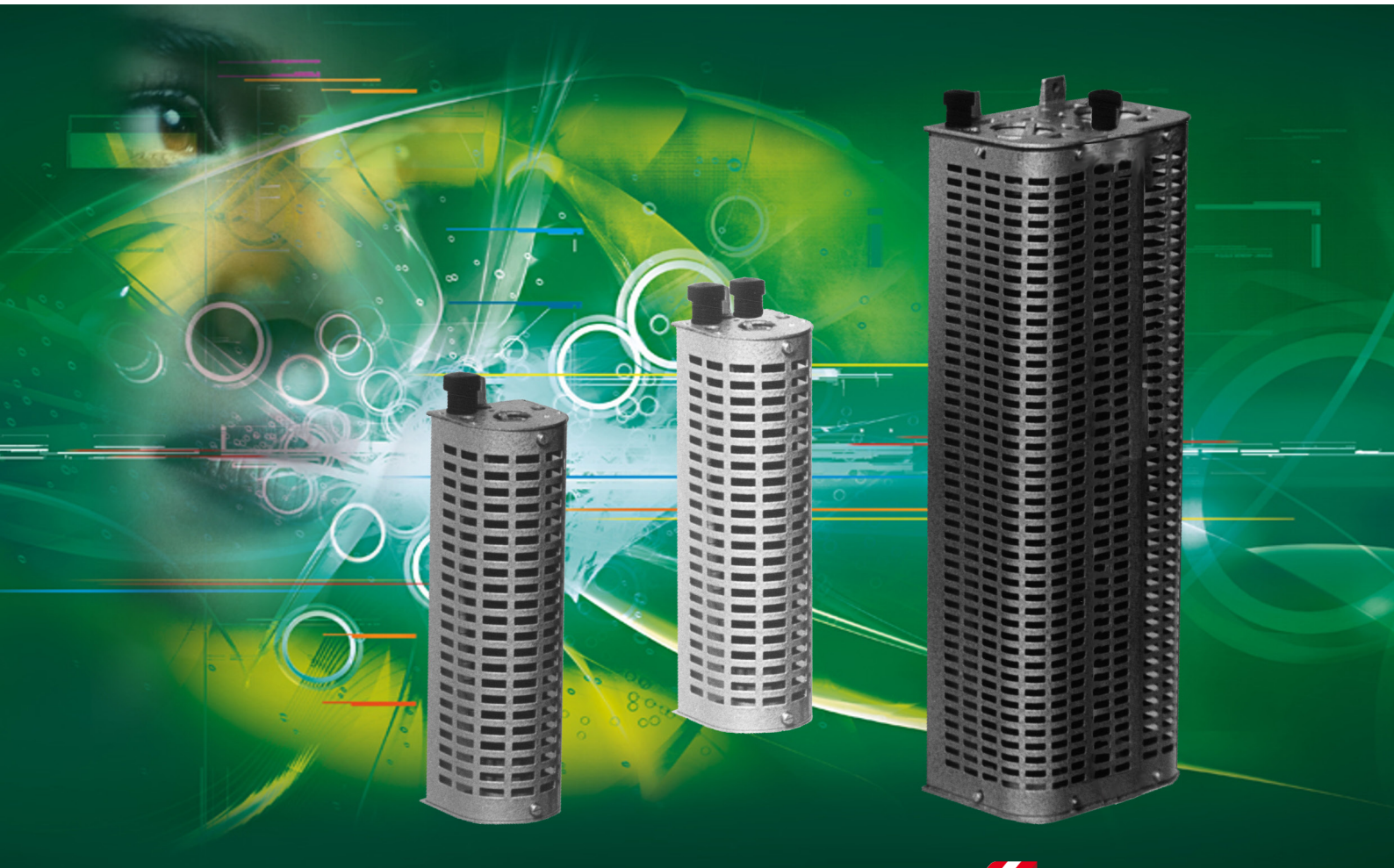


# Variable Resistors



Quality made in 

D669E209

 **BENEDICT**  
GMBH  
[www.benedict.at](http://www.benedict.at)



Complete Assortment  
Technical Datas  
Dimensions  
Applicationen  
Distributors

Catalogue **D946E..**



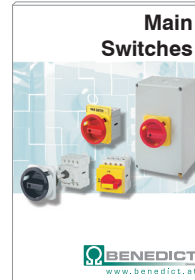
M4-32T.. up to 32A  
M4-32R.. up to 32A  
M4-63R.. up to 63A  
M4-100R.. up to 100A

Catalogue **D795E..**



On-Off-Switches  
Changeover Switches  
Motor Switches  
Step Switches  
Main Switches  
Modular Switches  
Key Operated Switches

Catalogue **D371E..**



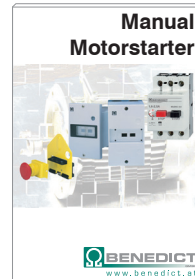
Emergency Off  
Main Switches  
On-Off-Switches  
Add-On-Module

Catalogue **D656E..**



Contactors for reactive and non reactive capacitor banks

Catalogue **D385E..**



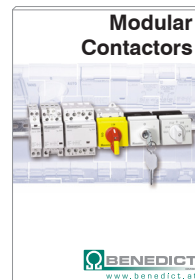
MU25A up to 32A  
Auxiliary Contact Blocks  
Trip Alarm Auxiliary Switches  
Busbar Connectors  
Enclosure

Catalogue **D509E..**



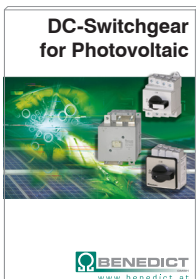
Push Buttons  
Emergency Stop  
Key Operated Rotary Switches  
Rotary Knobs  
Illuminated Push Buttons  
Assembled Stations

Catalogue **D580E..**



Modular Contactors  
Accessories  
Emergency Off Switches  
Main Switches  
On-Off Switches  
Control Switches

Catalogue **D681E..**



Main Switches  
On-Off-Switches  
Contactors for DC-Switching

Catalogue **D911E..**



Mini-Contactors  
Contactors  
Overload Relays  
Capacitor Switching  
Contactors  
Motor-Starters  
Modular Contactors

Catalogue **D677E..**

## Content

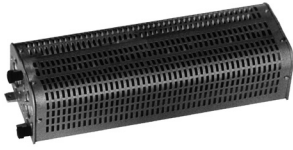
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Single tube variable resistors, Types JW.. and JW..A  
Technical data and Dimensions

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Twin tube variable resistors, Types JWII..S and JWII..P  
Technical data and Dimensions

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**Single tube variable resistors, types JW.. and JW.. A,** tolerance  $\pm 10\%$  (special version  $\pm 5\%$ )

JW.. standard performance with 2 terminals on one end

ordering example: JW15/3 0,2A

JW.. A with axial terminals (on both ends)

ordering example: JW15/3A 0,2A

JW..	15/3	15/5	25/5	35/5	50/5	50/8	80/8
A	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm
0,2	1560	2600	5200	7800	11500	18500	31000
0,3	750	1250	2500	3750	5600	9050	15000
0,4	400	640	1300	1950	2900	4650	7700
0,6	225	370	740	1100	1650	2700	4400
0,7	140	240	470	700	1050	1700	2800
0,9	95	160	320	480	700	1150	1900
1,1	67	110	220	330	500	800	1300
1,3	49	80	160	240	360	580	970
1,5	36	60	120	180	270	430	720
1,7	28	47	95	140	210	340	560
1,8	22	37	75	110	165	260	440
2,0	18	30	60	90	135	215	355
2,3	14,5	24	48	72	110	170	290
2,5	12	20	40	60	90	140	240
3,0	8,5	14	28	42	63	100	165
3,5	6,2	10	20	30	46	73	120
4,0	4,6	7,7	15,5	23	34	54	90
4,6	3,6	6	12	18	27	42	70
5,2	2,8	4,6	9,2	14	21	33	55
5,8	2,3	3,7	7,5	11	17	27	45
6,4	1,9	3,1	6	9,2	13,5	22	36
7,0	1,55	2,5	5	7,6	11,5	18	30
8,5	1,1	1,75	3,5	5,3	8	12,5	21
10,0	0,8	1,3	2,6	3,9	5,8	9,2	15,5
11,5	0,61	1	2	3	4,4	7	11,5
13,0	0,47	0,75	1,5	2,3	3,4	5,4	9
15,0	0,33	0,54	1,05	1,6	2,4	3,8	6,3
18,0	0,24	0,39	0,78	1,15	1,75	2,75	4,6
app. kg	0,3-0,6	0,6-0,9	0,8-1,5	1,0-2,0	1,3-2,9	3,2-5,3	5,0-8,2

**Rated continuous power acc. DIN41480:**  
Standard performance

Type	Watt
JW15/3	81
JW15/5	133
JW25/5	265
JW35/5	400
JW50/5	600
JW50/8	965
JW80/8	1570

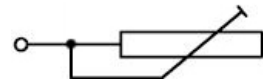
Ratings are for resistors with cover, horizontal wall mounting and max. ambient temperature of 35°C

**Max. available number of terminals:**

Type JW15/3	up to 6,4A	3
	over 6,4A	2
all other types		4

As single device an earth terminal is necessary. Not available for type JW15/3

**Wiring diagram:**



**Dimensions:**

Standard performance:

Type	A	B	C	D	E
JW15/3	150	57	63	170	192
JW15/5	150	69	82	170	195
JW25/5	250	69	82	270	295
JW35/5	350	69	82	370	395
JW50/5	500	69	82	520	545
JW50/8	500	120	148	533	550
JW80/8	800	120	148	833	850

**Weight decrease for types without cover**

app. kg	0,1	0,15	0,25	0,35	0,5	0,9	1,2
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**Accessories**

- Special version with tolerance  $\pm 5\%$
- Additional terminal
- Earth terminal (not for JW15/3)

**Power ratings acc. DIN41480**

Ratings are for resistors with cover, horizontal wall mounting and max. ambient temperature of 35°C

For ambient temperatures higher than 35°C the ratings decrease according the diagram on the right side.

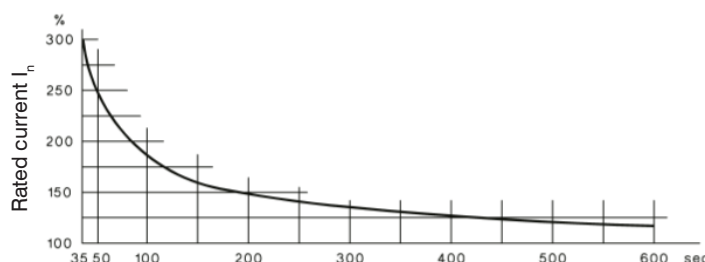
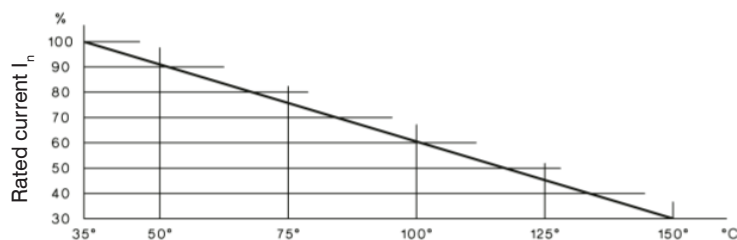
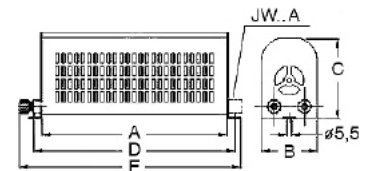
Resistors without cover ratings increase +10%.

Mounted in enclosure the power ratings decrease approx. -20%

**Overload**

The resistors could be overloaded for a short time. They can be used in applications with short time higher currents (peak-current) see diagram (curve is an average value of typical device)

Rated insulation voltage: 500V



## Twin tube variable resistor, types JWII..S and JWII..P

Standard performance with 2 terminals on one end, tolerance  $\pm 10\%$  (special version  $\pm 5\%$ )

JWII.. A	15/5S Ohm	25/5S Ohm	35/5S Ohm	50/5S Ohm
0,2	5200	10500	15500	23500
0,3	2500	5000	7500	11000
0,4	1300	2600	3850	5800
0,6	740	1500	2200	3300
0,7	480	940	1400	2100
0,9	320	630	950	1400
1,1	220	440	660	1000
1,3	160	320	480	730
1,5	120	240	360	540
1,7	95	190	280	420
1,8	75	150	220	330
2,0	60	120	180	270
2,3	48	95	145	215
2,5	40	80	120	180
3,0	28	55	83	125
3,5	20	40	60	90
4,0	15,5	31	46	70
4,6	12	24	36	55
5,2	9,2	18,5	28	42
5,8	7,5	15	22	34
6,4	6	12	18,5	27
7,0	5	10	15	23
8,5	3,5	7	10,5	16
10,0	2,6	5,2	7,8	11,5
11,5	2	4	6	9
13,0	1,5	3	4,5	6,8
15,0	1,05	2,15	3,2	4,8
18,0	0,78	1,55	2,3	3,5

Parallel connected, 2 terminals, tolerance  $\pm 10\%$  (special version  $\pm 5\%$ )

JWII.. A	15/5P Ohm	25/5P Ohm	35/5P Ohm	50/5P Ohm
0,4	1300	2630	3880	5880
0,6	625	1250	1880	2750
0,8	325	640	963	1450
1,2	185	375	550	825
1,4	120	235	350	525
1,8	80	158	238	350
2,2	55	110	165	250
2,6	40	80	120	183
3,0	30	60	90	135
3,4	23,8	47,5	70	105
3,6	18,75	37,5	55	82,5
4,0	15	30	45	67,5
4,6	12	23,8	36,3	53,8
5,0	10	20	30	45
6,0	7	13,8	20,8	31,3
7,0	5	10	15	22,5
8,0	3,88	7,75	11,5	17,5
9,2	3	6	9	13,8
10,4	2,3	4,63	7	10,5
11,6	1,88	3,75	5,5	8,5
12,8	1,5	3	4,63	6,7
14,0	1,25	2,5	3,75	5,75
17,0	0,875	1,75	2,63	4
20,0	0,65	1,3	1,95	2,88
23,0	0,5	1	1,5	2,25
26,0	0,375	0,75	1,13	1,7
30,0	0,263	0,538	0,8	1,2
36,0	0,195	0,388	0,575	0,875
app. kg	1,2-2,0	1,6-2,9	2,0-4,0	2,6-5,7

Weight decrease for types without cover

app. kg	0,2	0,3	0,5	0,75
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**Rated continous power acc. DIN 41480:**  
Standard performance

Type	Watt
JWII15/5.	250
JWII25/5.	500
JWII35/5.	750
JWII50/5.	1120

Ratings are for resistors with cover, horizontal wall mounting and max. ambient temperature of 35°C  
Further informations see page 1.

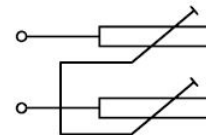
**Max. available number of terminals:**

Type JWII..	8
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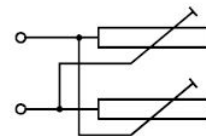
Used as single devices additionally an earth terminal is required.

**Wiring diagrams:**

Series connected JWII..S



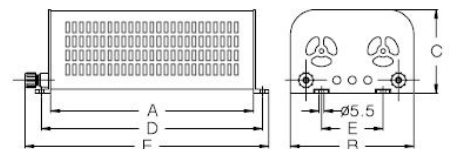
Parallel connected JWII..P



**Dimensions:**

Standard performance

Type	A	B	C	D	E	F
JWII15/5.	150	140	82	175	70	200
JWII25/5.	250	140	82	275	70	300
JWII35/5.	350	140	82	375	70	400
JWII50/5.	500	140	82	525	70	550





**Notice:**



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