

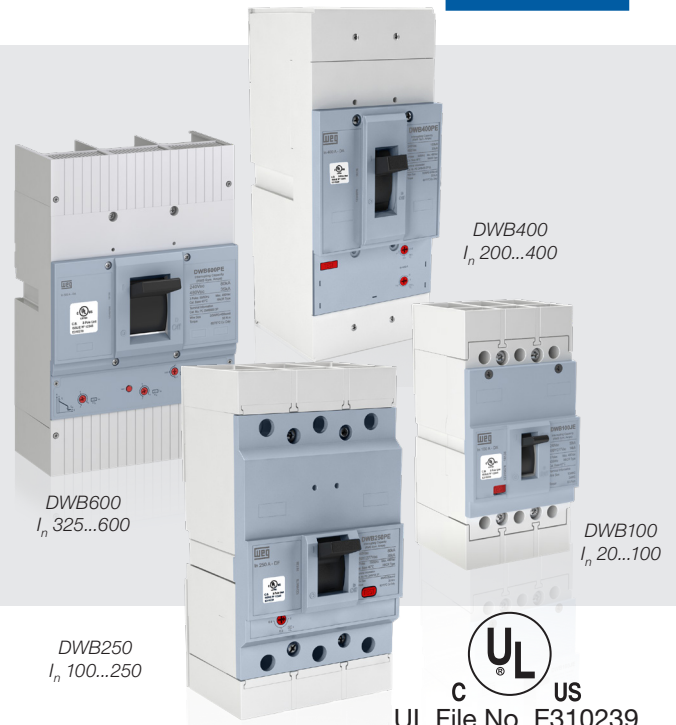
# DWB Series



## Molded Case Circuit Breakers Compact and Economical Solutions

### DWB Series Molded Case Circuit Breakers

*Compact and economical solutions for OEMs, commercial, and industrial applications. WEG offers UL489 DWB series three-pole molded case circuit breakers from 20A to 600A in 80% standard and 100% premium ratings. The complete line of accessories simplifies field installation and minimizes inventory variations.*

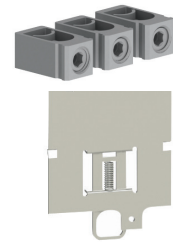
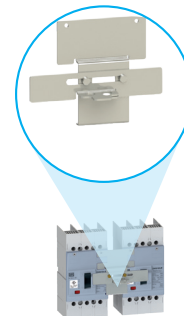


### Standard Features

- Compact design
- Available in four frame sizes: 100, 250, 400, and 600
- Multiple thermal - magnetic trip units
- Multiple SCCR ratings: 10kA, 14kA, 18kA, and 35kA at 480VAC
- Lugs included for all frame sizes
- Complete line of field installation accessories
- Rotary handles with shafts and mechanisms
- Suitable for reverse feed applications

### Complete Line of Field Installation Accessories

- Three styles of rotary handles
- Alarm and auxiliary trip
- Shunt and under-voltage release
- Mechanical interlocks and shaft support
- DIN rail mount adapters



# Molded Case Circuit Breakers - DWB Series

## Technical Data

Reference code		DWB100	DWB250	DWB400	DWB600				
Frame size		100	250	400	600				
<b>Electrical characteristics according to UL 489</b>									
Rated operational voltage - $E_u$	V ac (60 Hz)	480Y/277	480Y/277	480	480				
Maximum rated continuous current - $I_n$ (40 °C)	A	100	250	400	600				
MCCB rating design		80%, 100% <sup>1)</sup>							
Rated current - $I_n$ (40 °C)	A	20, 25, 30, 40, 50, 60, 70, 80, 90, 100	80-100, 100-125, 120-150, 160-200, 200-250	160-200, 180-225, 200-250, 220-275, 240-300, 260-325, 280-350, 320-400	227.5-325, 245-350, 280-400, 315-450, 350-500, 385-550, 420-600				
Number of poles		3	3	3	3				
Short-circuit breaking capacity levels		C	J	J	P				
UL interrupting rating - max RMS symmetrical	kA rms	-		-		-		-	
	240 V ac	35	50	50	80	50	80	80	
	480Y/277 V ac	10	14	14	35	-		-	
	480 V ac	-		-		18	35	35	
Mechanical lifespan (C-0)	Number of operations	10,000		6,000		6,000		6,000	
	Operations per hour	360		240		240		240	
Electrical lifespan (C-0) @ 480 V ac	Number of operations	6,000		1,000		1,000		1,000	
	Operations per hour	360		240		240		240	
<b>Protection</b>									
Against short-circuit & overload (fixed thermomagnetic)		Yes		No		No		No	
Against short-circuit & overload (adjustable thermal and fixed magnetic)		No		Yes		No		No	
Against short-circuit & overload (adjustable thermal and magnetic)		No		No		Yes		Yes	

## Installation and Connections

### Thermal Dissipation

#### Distribution MCCB

Rated current - In	A	20	25	30	40	50	60	70	80	90	100
Power loss	Watts/pole										
	DWB160	1	2	4	4	5	8	4	5	6	7

### Deratings

Temperature derating	50 °F 10 °C	59 °F 15 °C	68 °F 20 °C	77 °F 25 °C	86 °F 30 °C	95 °F 35 °C	104 °F 40 °C	113 °F 45 °C	122 °F 50 °C	131 °F 55 °C	140 °F 60 °C
DWB160 (x In)	1.16	1.12	1.09	1.07	1.02	1.02	1	0.97	0.95	0.91	0.88

Altitude derating		6500 ft / 2000 m	9800 ft / 3000 m	13100 ft / 4000 m	16400 ft / 5000 m
Rated current - In	%	100	98	93	90
Rated operational voltage - Ue	V ac	480Y/277	480Y/277	480Y/277	400Y/230



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