

DATASHEET

Molded Case Circuit Breakers



Main Features

Product code	: 12736195
Reference	: DWB250JH100-3DF
Product line	: DWB
Frame size	: 250
Product type	: Molded case circuit breaker
Application type	: Distribution
Rated nominal	: 100 A
Number of poles	: 3

Basic Data

Minimum rated line frequency	: 50 Hz
Maximum rated line frequency	: 60 Hz
Line frequency type	: a.c.
UL rated voltage	: 480Y277V
Magnetic current to DWB	: 1.000A
Breaking capacity code	: J
Continuous current rating	: 100 A

Short-circuit breaking capacity I (UL 489):

Voltage	Interrupting Capacity (kA)
240V c.a.	50.0
480Y/277V c.a.	14.0

Trip unit code	: DF
Trip unit type	: Fixed magnetic adjustable thermal
Neutral pole protection	: No protection
Ground fault protection	: None
Max. thermal protection setting (x In)	: 1.0
Minimum thermal protection setting (x In)	: 0.8
Power dissipation per pole	: 14 W
Mechanical durability - Number of operation (C-O)	: 6000
Mechanical durability - Number of cycles per hour (C-O)	: 240
Electrical lifespan:	
- Electrical lifespan (In in 480 V a.c.) - Number of operations:	: 1000
- Electrical lifespan (In in 480 V a.c.) - Number of cycles per hour:	: 240
Suitable for reverse connection	: Yes
Pitch between terminals	: 35 mm
Terminal pitch	: in

Connections

Cable connections:	
- Maximum gauge	: 250 kcmil
- Minimum gauge	: 4 AWG
Cables (Cu) - Tightening torque	: 220 lb.in
Connections with busbar:	
- Tightening torque	: 70 lb.in

Dimensions

Height	: 200.0 mm / 7.87 in
Width	: 105.0 mm / 4.13 in
Depth	: 80.0 mm / 3.15 in
Weight	: 1.8 Kg / 3.97 Lb

Ambient conditions

Ambient air temperature for operation:	
- Minimum	: -13 °F / -25 °C
- Maximum	: 158 °F / 70 °C

Rated current reduction factor for temperature:

Temperature	Factor
10 °C	1.15
15 °C	1.13
20 °C	1.1
25 °C	1.08
30 °C	1.05
35 °C	1.02
40 °C	1.0
45 °C	0.98
50 °C	0.95
55 °C	0.92
60 °C	0.88

Rated current reduction factor for altitude:

Altitude	Rated current reduction factor	Reduction factor for maximum operating voltage
2000 m	1.0	1.0
3000 m	0.98	0.88

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4000 m	0.93	0.78
5000 m	0.9	0.68

Accessories

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Internal accessories:

- Auxiliary contact : Allow
- Alarm contact : Allow 1
- Auxiliary contact and alarm contact : Allow 1
- Trip coil or undervoltage coil : Allow 1

External accessories:

- Mechanical interlock : Allow
- Escutcheon : Allow
- Wiring terminal (LUG) : Allow
- Panel door rotary handle : Allow
- Locking device : Allow

Standards

Product standard : UL 489

Certifications

- CE
- UL

Notes

- 1) In general, accessories are supplied separately from circuit breakers, except under the conditions specified in the catalog or in the CTM automatic transfer set.
- 2) Cable glands are supplied as standard on the DWB160 (IEC standard) and DWB (UL) models; on other versions, they are supplied separately as an accessory.
- 3) Phase separators or copper terminals are mandatory for use on the input terminals of circuit breakers and also in other conditions indicated in the catalog.
- 4) The IWA and IWB switches have the same dimensions as the respective DWA and DWB frames and share the same accessories.
- 5) Additional features are described in the product catalog and installation guide. For versions with electronic triggers, they are also included in the manual.
- 6) Image for illustrative purposes only.