DATASHEET
Circuit Breaker



Main Features

Reference	: MPW80i
Product code	: 12425432
Setting range for thermal release	: 50 A
Maximum rated current Ie	: 80 A
Terminal type	: Box

Basic Data

Rated operational voltage Ue	
- IEC	: 690 V
- UL	: Not available
Rated insutation voltage Ui	
- IEC	: 690 V
- UL	: Not available
Number of poles	: 3
Short-circuit release	: 13 x Iemax
Rated operational frequency	: 50/60 Hz
Utilization category	
- IEC60947-2 (motor starter protector/circuit breaker)	: A
- IEC60947-4-1 (Motor Starters)	: AC-3
Trip test	: Yes
Overload protection	: No
Phase failure sensitivity	: No
Trip indication	: Yes
Tripping class	: Not applicable
Maximum operating frequency (ops./h)	: 15
Mechanical lifespan	: 5000 operations
Electrical lifespan	: 25000 operations
Power dissipation per circuit breaker	: 25 W
Resistance to impact (IEC 60068-2-27)	: 15 g
Degree of protection	: IP20

Breaking capacity (IEC 60947-2)

Voltage	Icu	Ics
220 - 240 V	100	100
380 - 415 V	65	65
440 V	65	65
460 - 500 V	35	35
630 - 690 V	8	8

Connection

Terminal type	: Box
Screw type	: Screw Allen (4mm)
Tightening torque	: 6 N.m / 55 lb.in

Ambient conditions

Temperature	
- Operation	-20 °C (-4 °F) ... +70 °C (158 °F)
- storage	-50 °C (-58 °F) ... +80 °C (176 °F)
Temperature compensation (IEC 60947-4-1)	-20 °C (-4 °F) ... +60 °C (140 °F)
Maximum operating altitude without changing the rated values	: 2000 m

Correction factors for altitude:

Altitude (h)	Rated operating voltage	Current reduction factor
h ≤ 2000 m	690 V	690 V
2000 m < h ≤ 3000 m	550 V	550 V
3000 m < h ≤ 4000 m	480 V	480 V
4000 m < h ≤ 5000 m	420 V	420 V

Dimensions

Height	: 125 mm / 4.92 in
Width	: 54 mm / 2.13 in
Depth	: 157 mm / 6.18 in
Gross weight	: 1,07 kg / 2.36 lb

Compliance/Standards

IEC/EN 60947-1, DIN VDE 0660 (part 100)
IEC/EN 60947-2, DIN VDE 0660 (part 101)
IEC/EN 60947-4-1, DIN VDE 0660 (part 102)
UL 508

Certifications
ANCE
BUREAU VERITAS
CE
PCT
IRAM
CS
UL

Notes
1) Reduce current for temperatures exceeding +60 °C (87% to 70 °C);
2) Image merely illustrative.