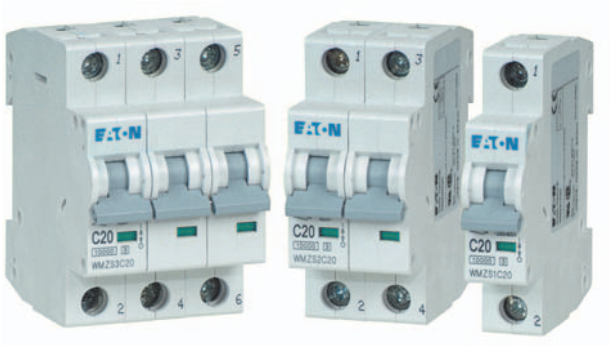
WMZS Circuit Breakers



Contents

WMZS Circuit Breaker

Product Overview

Optimum product quality, tested reliability and safety stand for best protection of personnel, installations and plant. Eaton's WMZS DIN rail mountable circuit breaker is designed for use in control panel applications.The WMZS is available with B, C and D characteristics in accordance with UL 1077, CSA C22.2 No.235 and IEC 60947-2.

Application Description

Supplementary protection:

- Control circuits
- Lighting
- Business equipment
- Appliances

Features

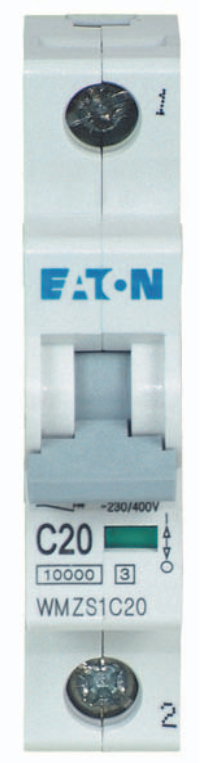
- Complete range of UL 1077 Recognized DIN rail mounted miniature circuit breakers up to 63A current rating
- Standard ratings of 10 kAIC at 277/480 Vac
- Current limiting design provides fast short-circuit interruption that reduces the let-through energy, which can damage the circuit
- Offers supplementary protection
- Thermal-magnetic overcurrent protection
  - Three levels of short-circuit protection, categorized by B, C and D curves
- Trip-free design—breaker can not be defeated by holding the handle in the ON position
- Captive screws cannot be lost
- Fulfill UL 1077, CSA C22.2 No.235 and also IEC 60947-2 Standard
- Field-installable shunt trip and auxiliary switch subsequent mounting
- Module width of only 0.69 inches (17.5 mm) per pole
- Contact Position Indicator (red/green)
- Easy installation on DIN rail
- Possibility for sealing the toggle in ON or OFF position

Advanced Features

Breakers install on standard DIN rail

Available in single-, two- and three-pole models

Color-coded indicator provides breaker status for easy troubleshooting



Captive posidrive terminal screws with finger and back-of-hand protection (IP20)

Trip-free design; breaker cannot be defeated by holding the handle in the ON position

Breaker information printed on the front of the device for quick identification

Standards and Certifications

Worldwide Acceptance

WMZS Supplementary Protectors are UL Recognized for use in the United States in accordance with NFPA® 70 (NEC). The devices comply with UL 1077 and CSA 22.2 No. 235, meeting the requirements for supplementary protectors. These devices are for international and domestic use, and also comply with IEC 60947-2 and are CE marked. These devices are RoHS compliant.

Catalog Number Selection

WMZS 1 B 10

Breaker Family
WMZS = Supplementary Protector

Number of Poles
1 = Single-pole
2 = Two-pole
3 = Three-pole

Protective Curve
B = B Curve (3–5X I_n)
C = C Curve (5–10X I_n)
D = D Curve (10–20X I_n)

Ampere Rating		
00 = 0.5A	**07** = 7A	**25** = 25A
01 = 1A	**08** = 8A	**30** = 30A
02 = 2A	**10** = 10A	**32** = 32A
03 = 3A	**13** = 13A	**40** = 40A
04 = 4A	**15** = 15A	**50** = 50A
05 = 5A	**16** = 16A	**63** = 63A
06 = 6A	**20** = 20A	

Product Selection

WMZS Product Selection—B Curve (3–5X I_n Current Rating)

Suitable for applications where protection against low level short circuit faults in control wiring is desired. Instantaneous trip is 3–5X continuous rating of device (I_n). Applications include PLC wiring, business equipment, lighting, appliances and some motors. Low magnetic trip point.

Single-Pole

Two-Pole

Three-Pole

B Curve (3–5X In Current Rating)—Designed for Resistive or Slightly Inductive Loads 123

Amperes	Single-Pole Catalog Number	Two-Pole Catalog Number	Three-Pole Catalog Number
6	**WMZS1B06**	**WMZS2B06**	**WMZS3B06**
7	**WMZS1B07**	**WMZS2B07**	**WMZS3B07**
8	**WMZS1B08**	**WMZS2B08**	**WMZS3B08**
10	**WMZS1B10**	**WMZS2B10**	**WMZS3B10**
13	**WMZS1B13**	**WMZS2B13**	**WMZS3B13**
15	**WMZS1B15**	**WMZS2B15**	**WMZS3B15**
16	**WMZS1B16**	**WMZS2B16**	**WMZS3B16**
20	**WMZS1B20**	**WMZS2B20**	**WMZS3B20**
25	**WMZS1B25**	**WMZS2B25**	**WMZS3B25**
30	**WMZS1B30**	**WMZS2B30**	**WMZS3B30**
32	**WMZS1B32**	**WMZS2B32**	**WMZS3B32**
40	**WMZS1B40**	**WMZS2B40**	**WMZS3B40**
50	**WMZS1B50**	**WMZS2B50**	**WMZS3B50**
63	**WMZS1B63**	**WMZS2B63**	**WMZS3B63**

WMZS Product Selection—C Curve (5–10X I_n Current Rating)

Suitable for applications where medium levels of inrush current are expected. Instantaneous trip is 5–10X rating of device (In). Applications include small transformers, lighting, pilot devices, control circuits, and coils. Medium magnetic trip point.

Single-Pole

Two-Pole

Three-Pole

C Curve (5–10X In Current Rating)—Designed for Inductive Loads 145

Amperes	Single-Pole Catalog Number	Two-Pole Catalog Number	Three-Pole Catalog Number
0.5	**WMZS1C00**	**WMZS2C00**	**WMZS3C00**
1	**WMZS1C01**	**WMZS2C01**	**WMZS3C01**
2	**WMZS1C02**	**WMZS2C02**	**WMZS3C02**
3	**WMZS1C03**	**WMZS2C03**	**WMZS3C03**
4	**WMZS1C04**	**WMZS2C04**	**WMZS3C04**
5	**WMZS1C05**	**WMZS2C05**	**WMZS3C05**
6	**WMZS1C06**	**WMZS2C06**	**WMZS3C06**
7	**WMZS1C07**	**WMZS2C07**	**WMZS3C07**
8	**WMZS1C08**	**WMZS2C08**	**WMZS3C08**
10	**WMZS1C10**	**WMZS2C10**	**WMZS3C10**
13	**WMZS1C13**	**WMZS2C13**	**WMZS3C13**
15	**WMZS1C15**	**WMZS2C15**	**WMZS3C15**
16	**WMZS1C16**	**WMZS2C16**	**WMZS3C16**
20	**WMZS1C20**	**WMZS2C20**	**WMZS3C20**
25	**WMZS1C25**	**WMZS2C25**	**WMZS3C25**
30	**WMZS1C30**	**WMZS2C30**	**WMZS3C30**
32	**WMZS1C32**	**WMZS2C32**	**WMZS3C32**
40	**WMZS1C40**	**WMZS2C40**	**WMZS3C40**
50	**WMZS1C50**	**WMZS2C50**	**WMZS3C50**
63	**WMZS1C63**	**WMZS2C63**	**WMZS3C63**

Notes

① In North America, these switches are UL recognized and CSA certified as Supplementary Protection devices. Per the intent of NEC (National Electrical Code), Article 240, and CEC (Canadian Electrical Code), Part 1 C22.1, supplementary breakers cannot be used as a substitute for the branch circuit protective device. They can be used to provide overcurrent protection within an appliance or other electrical equipment where branch circuit overcurrent protection is already provided, or is not required.

② Designed for resistive or slightly inductive loads.

③ Response time of instantaneous trip: 3–5X I_n current rating.

④ Designed for inductive loads.

⑤ Response time of instantaneous trip: 5–10X I_n current rating.