

Circuit Breaker Selection Guide, continued



WMZ UL 489
Miniature Circuit Breakers

WMZS UL 1077
Miniature Circuit Breakers—
Supplementary Protectors

Description

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General Applications

Used to provide branch circuit protection in cable-in/out DIN-Rail mount applications.

Used to provide overcurrent protection where branch protection (for example UL 489 MCCB) is already provided or not required. Replacement for fuses used as supplementary protectors.

Technical Data

Maximum current rating	40A	63A
Maximum voltage—AC	480/277 Vac (240/415 Vac IEC)	480/277 Vac
Maximum voltage—DC	48 Vdc	65 Vac Single-pole 130 Vac Two-pole
Poles	1, 2, 3	1, 2, 3
Max. interrupting capacities See individual catalogs for limitations and back-up protection requirements.	10 kA UL/CSA; 15 kA IEC/EN 60947-2	IEC 240/415V 10 kA UL/CSA 120V 10 kA 240V 10 kA 277V 6 kA 480V 6 kA

Approvals

UL 489 CE; IEC/EN 60947-2 CSA 22.2	UL 1077 CE; IEC/EN 60947-2; IEC/EN 60898 CSA 22.2 235
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Environmental Data

Humidity	Acc. IEC 60068-2 (25° to 55°C/ 77° to 131°F, 90–95% RH)	—
Shock	Acc. IEC 60068-2-27 (40g half sine wave for 10 ms—3 axes) (15g half sine wave for 20 ms—3 axes)	—
Vibration	Acc. to IEC 60068-2-6 5–100 Hz/1.0 mm/0.7g (3 axes)	—
Operating temperature	30°C (86°F)	—
Dielectric strength	1960 Vac (acc. to UL 489)	—
Insulation resistance	100M ohms at 500 Vdc	—
Endurance/life	>20,000 operations	—
Approximate weight	Single-pole—0.27 lbs (121.0g) Two-pole—0.53 lbs (242.0g) Three-pole—0.80 lbs (363.0g)	Single-pole—0.26 lbs (120.0g) Two-pole—0.54 lbs (244.9g) Three-pole—0.83 lbs (376.5g)
Mounting contribution	35 mm DIN rail mountable	35 mm DIN rail mountable

For our complete product offering, see Volume 4—Circuit Protection, CA08100005E.

WMZS UL 1077 Miniature Circuit Breakers—Supplementary Protectors



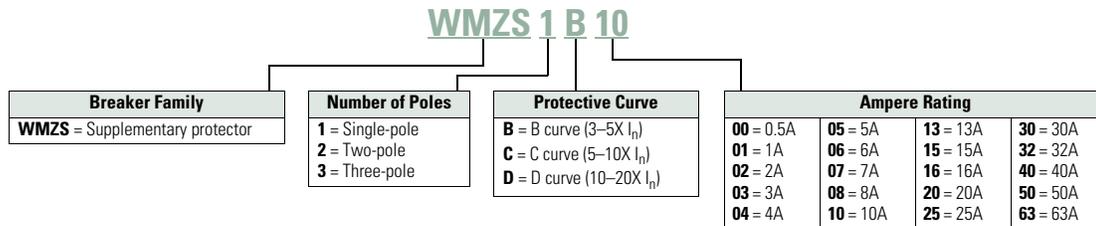
Features

- UL 1077 recognized DIN-rail mounted supplemental protectors up to 63A
- Current limiting design provides fast short circuit interruption that reduces let-through energy
- Thermal-magnetic overcurrent protection available with B, C and D curve levels of protection
 - B curve—3–5X I_n—for maximum protection of control circuit wiring from low-level short circuit faults
 - C curve—5–10X I_n—for medium inrush startup currents
 - D curve—10–20X I_n—provides a magnetic range to allow for high inrush levels
- Ideal replacement for fuses that are applied as supplemental protection
- Complete line of accessories

Catalog Number Selection

WMZS UL 1077 Miniature Circuit Breakers—Supplementary Protectors

WMZS UL 1077 Miniature Circuit Breakers



Product Selection

WMZS UL 1077 Supplementary Protectors

Ampere Rating	B Curve (3–5X I _n Current Rating)			C Curve (5–10X I _n Current Rating)			D Curve (10–20X I _n Current Rating)		
	Single-Pole Catalog Number	Two-Pole Catalog Number	Three-Pole Catalog Number	Single-Pole Catalog Number	Two-Pole Catalog Number	Three-Pole Catalog Number	Single-Pole Catalog Number	Two-Pole Catalog Number	Three-Pole Catalog Number
0.5	—	—	—	WMZS1C00	WMZS2C00	WMZS3C00	WMZS1D00	WMZS2D00	WMZS3D00
1	—	—	—	WMZS1C01	WMZS2C01	WMZS3C01	WMZS1D01	WMZS2D01	WMZS3D01
2	—	—	—	WMZS1C02	WMZS2C02	WMZS3C02	WMZS1D02	WMZS2D02	WMZS3D02
3	—	—	—	WMZS1C03	WMZS2C03	WMZS3C03	WMZS1D03	WMZS2D03	WMZS3D03
4	—	—	—	WMZS1C04	WMZS2C04	WMZS3C04	WMZS1D04	WMZS2D04	WMZS3D04
5	—	—	—	WMZS1C05	WMZS2C05	WMZS3C05	WMZS1D05	WMZS2D05	WMZS3D05
6	WMZS1B06	WMZS2B06	WMZS3B06	WMZS1C06	WMZS2C06	WMZS3C06	WMZS1D06	WMZS2D06	WMZS3D06
7	WMZS1B07	WMZS2B07	WMZS3B07	WMZS1C07	WMZS2C07	WMZS3C07	WMZS1D07	WMZS2D07	WMZS3D07
8	WMZS1B08	WMZS2B08	WMZS3B08	WMZS1C08	WMZS2C08	WMZS3C08	WMZS1D08	WMZS2D08	WMZS3D08
10	WMZS1B10	WMZS2B10	WMZS3B10	WMZS1C10	WMZS2C10	WMZS3C10	WMZS1D10	WMZS2D10	WMZS3D10
13	WMZS1B13	WMZS2B13	WMZS3B13	WMZS1C13	WMZS2C13	WMZS3C13	WMZS1D13	WMZS2D13	WMZS3D13
15	WMZS1B15	WMZS2B15	WMZS3B15	WMZS1C15	WMZS2C15	WMZS3C15	WMZS1D15	WMZS2D15	WMZS3D15
16	WMZS1B16	WMZS2B16	WMZS3B16	WMZS1C16	WMZS2C16	WMZS3C16	WMZS1D16	WMZS2D16	WMZS3D16
20	WMZS1B20	WMZS2B20	WMZS3B20	WMZS1C20	WMZS2C20	WMZS3C20	WMZS1D20	WMZS2D20	WMZS3D20
25	WMZS1B25	WMZS2B25	WMZS3B25	WMZS1C25	WMZS2C25	WMZS3C25	WMZS1D25	WMZS2D25	WMZS3D25
30	WMZS1B30	WMZS2B30	WMZS3B30	WMZS1C30	WMZS2C30	WMZS3C30	WMZS1D30	WMZS2D30	WMZS3D30
32	WMZS1B32	WMZS2B32	WMZS3B32	WMZS1C32	WMZS2C32	WMZS3C32	WMZS1D32	WMZS2D32	WMZS3D32
40	WMZS1B40	WMZS2B40	WMZS3B40	WMZS1C40	WMZS2C40	WMZS3C40	WMZS1D40	WMZS2D40	WMZS3D40
50	WMZS1B50	WMZS2B50	WMZS3B50	WMZS1C50	WMZS2C50	WMZS3C50	—	—	—
63	WMZS1B63	WMZS2B63	WMZS3B63	WMZS1C63	WMZS2C63	WMZS3C63	—	—	—