

Legacy Shield™ Miniature Circuit Breakers

120/240 VAC · 1–3 Pole | 5–60 A · Type C · 10 kA | UL 489 · 35 mm DIN Rail

A LEGACY CONTROLS COMPONENT LINE · MIMS, FLORIDA · UL 489 LISTED

LEGACY SHIELD™

PROTECTIVE BY DESIGN. RELIABLE BY NATURE.

DOCUMENT **Component Datasheet v1.0**

SERIES / MODEL **Legacy Shield™ MCB Series · LS A1U-60**

PREPARED BY **Legacy Controls · 6200 FL-46, Mims, FL 32754**

SUPPORT **(321) 284-8592**

DATE **July 2026**

STANDARD **UL 489 · Thermal Magnetic**

RATINGS **5–60 A · 120/240 VAC · 10 kA**

EMAIL **Support@Legacy-Controls.com**

PRODUCT OVERVIEW

The Legacy Shield™ MCB Series is a full line of UL 489 listed miniature circuit breakers rated 5–60 A at 120/240 VAC, available in 1-, 2-, and 3-pole configurations with a Type C thermal-magnetic trip element and a 10 kA interrupt rating. Every frame mounts on standard 35 mm DIN rail — optional mounting feet enable front-and-bottom panel mounting — and provides visual red/green contact position indication with a handle lockable in the ON or OFF position. The series is suitable for main or branch circuit protection in industrial control panels, power supply equipment, HVAC systems, and receptacle and lighting circuits.

KEY FEATURES

- UL 489 listed full line of miniature circuit breakers
- Mounts on standard 35 mm DIN rail; optional feet enable front-and-bottom panel mounting
- Rated voltage 120/240 VAC · rated frequency 50/60 Hz
- 10 kA interrupt rating
- Suitable for main or branch circuit protection
- Visual contact position indication (red/green)
- Lockable in the ON or OFF position
- Conductor temperature rating 60/75 °C — copper wire only

APPLICATIONS

- Industrial control panels — automation systems, machine tools
- Power supply equipment — UPS, switching power supplies, inverters
- HVAC systems — heating, ventilation, air conditioning, refrigeration
- Household circuits — lighting fixtures, receptacle circuits
- Transportation infrastructure — signal control, communication networks

PRODUCT IDENTIFICATION



SERIES
Legacy Shield™ MCB
MODEL
LS A1U-60
FRAME / CURVE
60 A · Type C
STANDARD
UL 489
DATASHEET
v1.0 · Supersedes V3.2

ORDERING GUIDE

Every Legacy Shield™ catalog number is assembled from the segment code below.

EXAMPLE **LS A1U-60C60/2 MF** — 60 A frame · Type C · 60 A · 2-pole · with mounting feet

SEGMENT	FIELD	VALUES
LS	Company	Legacy Shield™ — a Legacy Controls component line
A1U	Model	UL Series miniature circuit breaker (MCB)
-60	Frame Size	60 A frame
C	Tripping Curve	Type C · 8 In ± 20 %
60	Rated Current (A)	5 · 10 · 15 · 20 · 25 · 30 · 35 · 40 · 45 · 50 · 60
/2	Poles	1 — 1 Pole · 2 — 2 Pole · 3 — 3 Pole
MF	Optional Accessories	MF Mounting Feet · SC Safety Cover · HS Handle Safety Lock · HT Hand Tie

Catalog Numbers

Catalogued voltage classes: 1 Pole — 120/240 Vac · 2 Pole — 240 Vac · 3 Pole — 240 Vac.

A	1 POLE PRODUCT	PART NUMBER	2 POLE PRODUCT	PART NUMBER	3 POLE PRODUCT	PART NUMBER
5	LS A1U-60C5/1	EC-010-25-0001	LS A1U-60C5/2	EC-010-25-0012	LS A1U-60C5/3	EC-010-25-0023
10	LS A1U-60C10/1	EC-010-25-0002	LS A1U-60C10/2	EC-010-25-0013	LS A1U-60C10/3	EC-010-25-0024
15	LS A1U-60C15/1	EC-010-25-0003	LS A1U-60C15/2	EC-010-25-0014	LS A1U-60C15/3	EC-010-25-0025
20	LS A1U-60C20/1	EC-010-25-0004	LS A1U-60C20/2	EC-010-25-0015	LS A1U-60C20/3	EC-010-25-0026
25	LS A1U-60C25/1	EC-010-25-0005	LS A1U-60C25/2	EC-010-25-0016	LS A1U-60C25/3	EC-010-25-0027
30	LS A1U-60C30/1	EC-010-25-0006	LS A1U-60C30/2	EC-010-25-0017	LS A1U-60C30/3	EC-010-25-0028
35	LS A1U-60C35/1	EC-010-25-0007	LS A1U-60C35/2	EC-010-25-0018	LS A1U-60C35/3	EC-010-25-0029
40	LS A1U-60C40/1	EC-010-25-0008	LS A1U-60C40/2	EC-010-25-0019	LS A1U-60C40/3	EC-010-25-0030
45	LS A1U-60C45/1	EC-010-25-0009	LS A1U-60C45/2	EC-010-25-0020	LS A1U-60C45/3	EC-010-25-0031
50	LS A1U-60C50/1	EC-010-25-0010	LS A1U-60C50/2	EC-010-25-0021	LS A1U-60C50/3	EC-010-25-0032
60	LS A1U-60C60/1	EC-010-25-0011	LS A1U-60C60/2	EC-010-25-0022	LS A1U-60C60/3	EC-010-25-0033

Optional Accessories

ACCESSORY	DESCRIPTION	DISPOSITION	PART NUMBER
MF — Mounting Feet	Surface mount or base plate mount	1P: 1 pair · 2P: 2 pair · 3P: 3 pair	EC-010-25-0034
HS — Handle Safety Lock	Handle locking attachment secures the handle in the ON or OFF position	1 set · 1 pc	EC-010-25-0035
SC — Safety Cover	For the circuit breaker inlet — one long safety cover is required for each pole; optional one pair per pole (e.g., LS A1U-60/3: optional 3 pairs)	1P: 1 pair · 2P: 2 pair · 3P: 3 pair	EC-010-25-0036
HT — Hand Tie	Ties two circuit breakers together	1 set · 1 pc	EC-010-25-0037

TECHNICAL CHARACTERISTICS

PARAMETER	SPECIFICATION
Applicable Standards	UL 489
Rated Current	5 – 60 A
Rated Voltage	120/240 Vac (1 & 2 Pole) · 240 Vac (3 Pole)
Rated Frequency	50/60 Hz
Tripping Characteristics	Type C (6.4 In – 9.6 In)
Tripping Type	Thermal magnetic
Protection Degree	IP20
Electrical Life	6,000 operations
Mechanical Life	10,000 operations
Rated Insulation Voltage	1,000 Vac
Rated Impulse Withstand Voltage	6 kV
Rated Short-Circuit Current (Icu)	10 kA
Operating Short-Circuit Breaking Capacity (Ics)	10 kA
Operating Temperature Range	–25 °C to +40 °C (reference temperature 30 °C)
Pollution Level	Class III
Elevation	Not exceeding 6,561 ft (2,000 m)
Air Relative Humidity	≤ 90 % at 20 °C · ≤ 50 % at 40 °C
Conducting Wire	14 – 4 AWG (2 – 25 mm²) · terminal torque 3.5 N·m (31 lb·in)
Installation	35 mm DIN rail · optional feet for bottom or surface mounting

UL Interrupting Rating

CIRCUIT BREAKER TYPE	POLES	AMPERE RATING	120/240 VAC	240 VAC
LS A1U-60	1	5 – 60 A	10 kA	N/A
LS A1U-60	2	5 – 60 A	10 kA	N/A
LS A1U-60	3	5 – 60 A	N/A	10 kA

TRIPPING CHARACTERISTICS

The Legacy Shield™ MCB Series uses a Type C thermal-magnetic trip element with an instantaneous trip region of 6.4–9.6 I_n ($8 I_n \pm 20\%$).

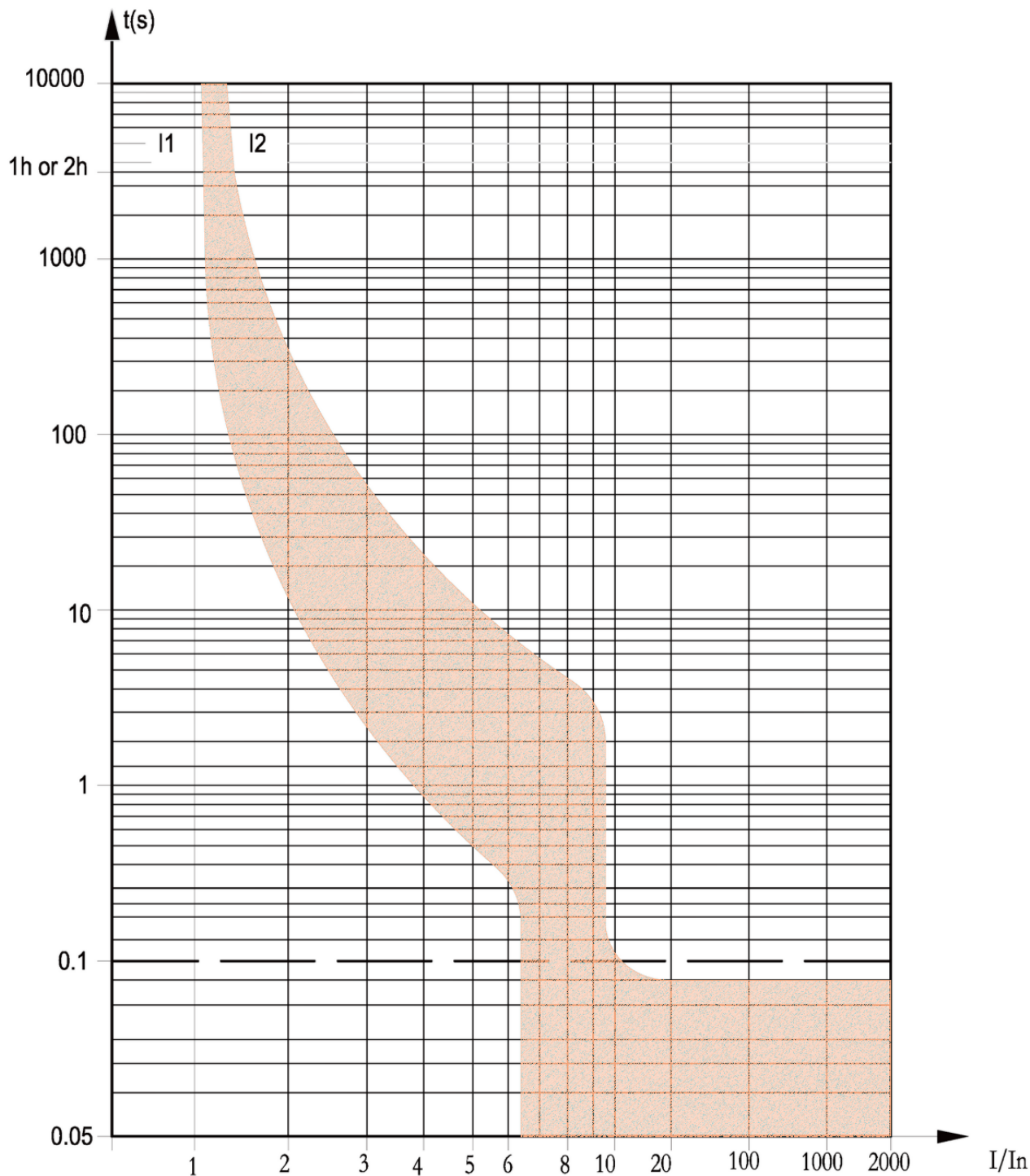
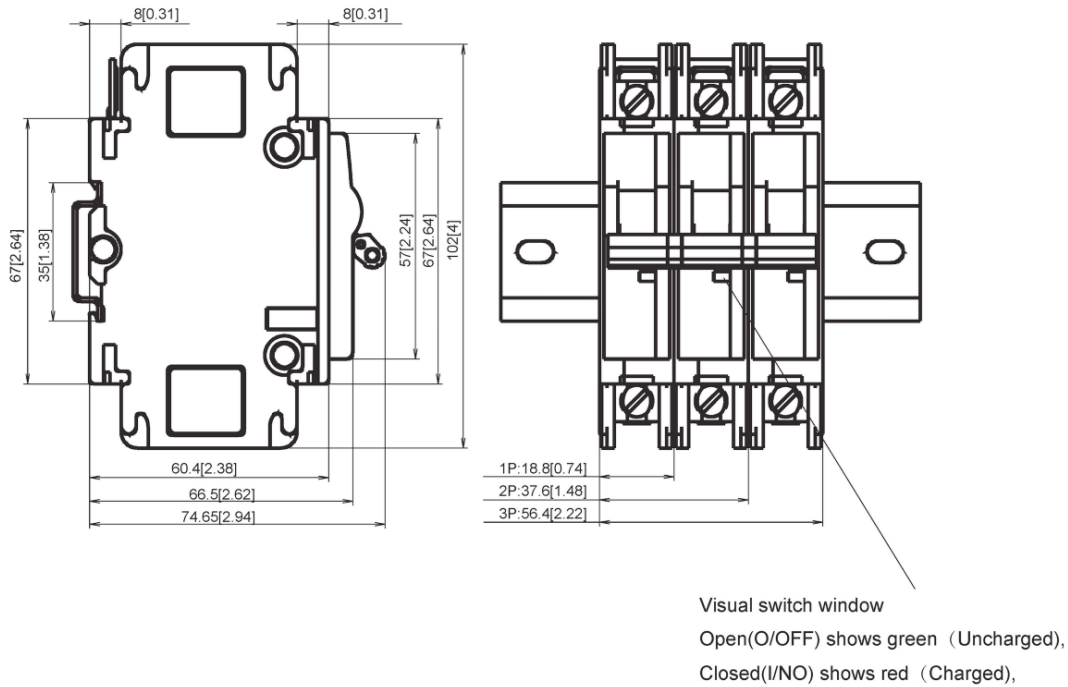


FIGURE 1 — TYPE C TRIPPING CURVE (REFERENCE)

TRIP LIMITS Conventional non-tripping current $I_1 = 1.05 \times I_n$ — $t > 1\text{ h}$ ($I_n \leq 50\text{ A}$) · $t > 2\text{ h}$ ($I_n > 50\text{ A}$). Conventional tripping current $I_2 = 1.35 \times I_n$ — $t \leq 1\text{ h}$ ($I_n \leq 50\text{ A}$) · $t \leq 2\text{ h}$ ($I_n > 50\text{ A}$).

DIMENSIONS

All dimensions mm [inch]. Pole widths: 1 Pole 18.8 [0.74] · 2 Pole 37.6 [1.48] · 3 Pole 56.4 [2.22]. The visual switch window shows green when open (O/OFF — uncharged) and red when closed (I/ON — charged).



Mounting foot installation

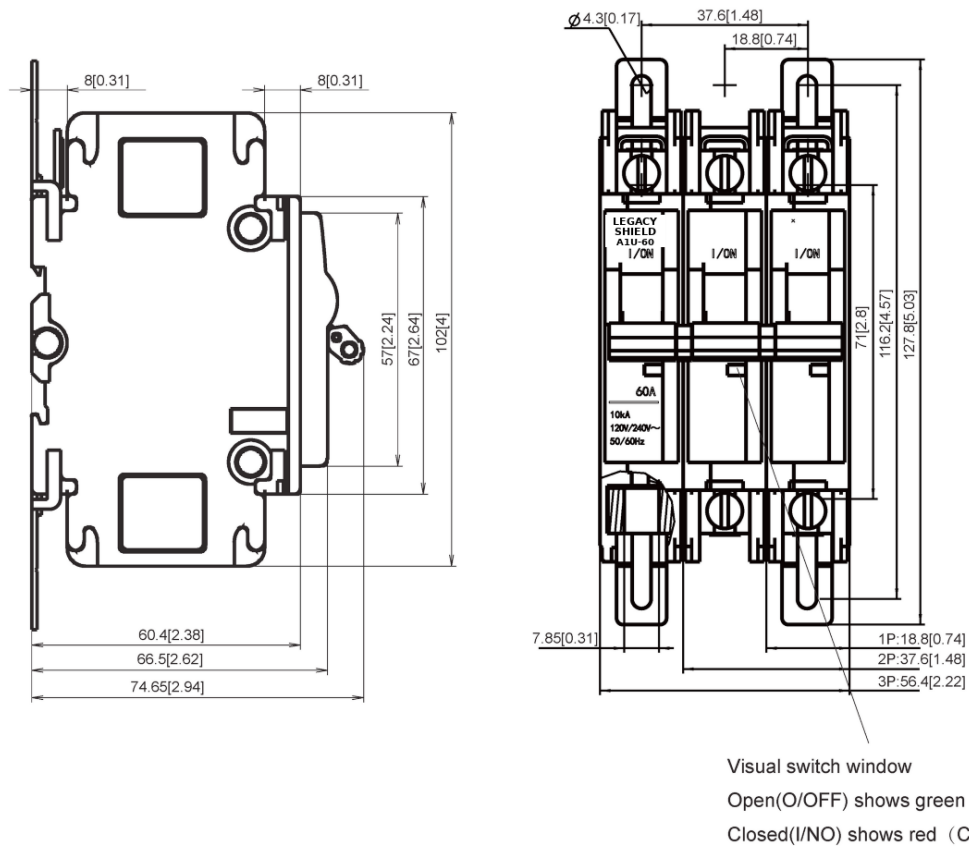


FIGURE 2 — DIN RAIL & MOUNTING FOOT INSTALLATION (REFERENCE)

INSTALLATION & FIELD WIRING

WARNING Risk of electric shock and serious injury. Installation must be carried out by qualified personnel only, per the National Electrical Code (NEC) and all applicable local codes. De-energize the circuit and verify with a voltage tester before installing or servicing any breaker.

Wiring Requirements

- **Conductors** — Copper wire only, 14 – 4 AWG (2 – 25 mm²), temperature rating 60/75 °C.
- **Terminal Torque** — Tighten terminals to 3.5 N·m (31 lb·in) and verify all torque values. Reliable connections prevent terminal overheating and burn-out.
- **Mounting** — Standard 35 mm DIN rail; optional mounting feet (MF) enable bottom or surface mounting.
- **Multi-Pole Operation** — Operate 2- and 3-pole handles from the center position. Normal ON/OFF switching time is less than 1 second.
- **Locking** — The handle is lockable in the ON or OFF position; the HS handle safety lock secures either position.

Pole Configurations

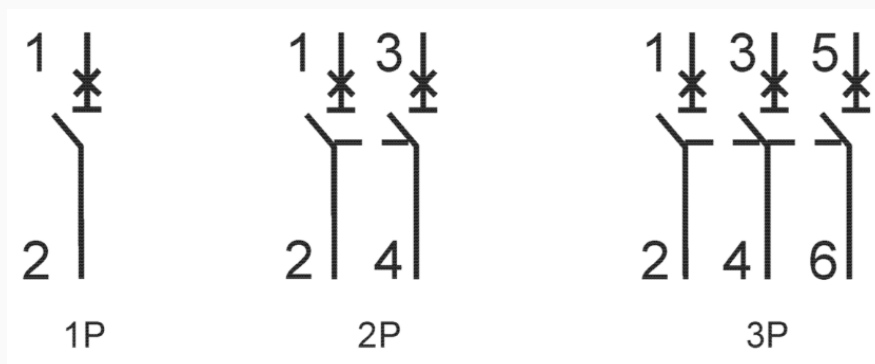


FIGURE 3 — POLE CONFIGURATION DIAGRAM (REFERENCE)

Product Weight

CONFIGURATION	WEIGHT
1-Pole	0.161 kg (5.7 oz)
2-Pole	0.314 kg (11.1 oz)
3-Pole	0.467 kg (16.5 oz)

WARRANTY

Limited Warranty

Legacy Shield™ Series circuit breakers are warranted for twenty-four (24) months from the date of purchase against defects in materials and workmanship. Legacy Controls will repair or replace, at its sole discretion, any defective unit returned with proof of purchase, provided it was used under normal operating conditions.

Warranty Void If

- Products are misused, altered, or improperly installed.
- Damage results from accidents, overload, or environmental factors.
- The unit is repaired by unauthorized personnel.

Making a Warranty Claim

Contact Legacy Controls within the warranty period at (321) 284-8592 or Support@Legacy-Controls.com with proof of original purchase, the catalog number, and a detailed description of the issue. If directed, return the unit to the designated Florida facility, shipping prepaid.

SUPPORT & ORDERING

Technical support, ordering, and warranty claims:

Legacy Controls

6200 FL-46, Mims, Florida 32754

(321) 284-8592

Support@Legacy-Controls.com

Twenty-four (24) month limited warranty from the date of purchase. For current pricing and volume quotes, contact your local authorized Legacy Controls sales and service provider.

COMPLIANCE & NOTES

- Installation by qualified personnel only, per NEC and all applicable local codes
- Suitable for main or branch circuit protection when applied within nameplate ratings
- Copper conductors only, 14 – 4 AWG, 60/75 °C · terminal torque 3.5 N·m (31 lb·in)
- Any alteration, modification, or unauthorized repair voids the UL listing and warranty
- This datasheet (v1.0) supersedes LS A1U-60 MCB Specifications V3.2

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