

GLOBAL-TWIN

Conforming to IEC & local Standards

The G-TWIN series is a global breaker series that satisfies all major standards.

EN model

- EN 60947-2
- JIS C 8201-2-1
- JIS C 8201-2-2
- CE marking (TUV)

CCC model

- GB 14048.2 (China)
- CCC approved

JIS model

- JIS C 8201-2-1
- JIS C 8201-2-2

UL489 model

- UL 489
- CAN/CSA C22.2 NO.5
- NEMA AB1
- IEC 60947-2
- JIS C 8201-2-1
- JIS C 8201-2-2
- UL mark (cUL)
- CE marking (TUV)

G-TWIN Standard series

- IEC 60947-2
- EN 60947-2 (CE marking)
- GB 14048.2 (CCC)
- JIS C 8201-2-1
- JIS C 8201-2-2

G-TWIN Global series

- IEC 60947-2
- EN 60947-2 (CE marking)
- GB 14048.2 (CCC)
- JIS C 8201-2-1
- JIS C 8201-2-2
- UL 489
- CAN/CSA C22.2 NO.5
- NEMA AB1

Ampere frame size (AF)

50	100	125	250	400	630	800
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FUJI Molded Case Circuit Breakers

ETH131

Fuji Electric FA Components & Systems Co., Ltd.

Compact & High performance

Compact size meeting UL489 480V requirements & same dimensions as ELCB

ELCB

Rated voltage 480V
(W105xH181xD68mm)

Same dimensions

MCCB

Rated voltage 480V
(W105xH181xD68mm)

Technical innovation

Arc and gas flow control technology
Effect of "ablation breaking technology"

Decrease by 30%!

- Narrow slit resin**
 - Increased arc voltage due to narrow slit effect
 - Increased arc voltage and high-speed moving contact opening by ablation effect
 - Suppression of internal pressure rise by adjusting the narrow slit width
- Moving contact cover**
 - Arcing prevention at the bottom of moving contact
- Magnetic yoke arrangement**
 - An increase in the repulsion force of the moving contact at initiation of contact opening

Ecology

Advanced environmental technology

Conforming to the RoHS Directive

The G-TWIN Series is designed to lower environmental impact.

Recycling

- For easier recycling, all major parts are marked with the names of the materials used.

Conforming to the RoHS Directive

- Lead-free (Pb-free) solder is used.
- Free of hexavalent chromium (Cr⁶⁺-free) (125 to 800AF)

Usefulness Leading the way in user-friendliness

Unifying and reducing the types of internal accessories

32 to 100AF

- Internal and external accessories
- A wider range of customer-mountable accessories

125 to 250AF

- Sharing internal accessories of 125/250AF breakers.

AF	G-TWIN	G-TWIN
125	8	8
160/250	8	8

400 to 800AF

- The number of types of internal accessories of 400/630/800AF has been significantly reduced.

AF	G-TWIN	G-TWIN
400	26	6
630	26	6
800	26	6

The Twin Breakers have advanced to an entirely new stage.

Conforming to IEC & local Standards

Conforming to certifications and standards in major world markets

Expanded frame sizes in G-TWIN Global Series

G-TWIN Standard series MCCB

G-TWIN Global series MCCB

Compact & High performance

Compact models with unified dimensions meeting UL489 480V and IEC 440V requirements

GLOBAL TWIN History

1990 TWIN Breaker → 1992 Super TWIN → 1995 Super 60 → 2001 α-TWIN → 2006 G-TWIN

FUJI MCCB and ELCB GLOBAL TWIN

Ecology

Lower environmental impact
Advanced green engineering and energy-saving support
Conforming to the RoHS Directive

G-TWIN Standard series MCCB

Fuji Electric launched the Twin Breaker Series to world markets in 1990, in which molded case circuit breaker (MCCB) and earth leakage circuit breaker (ELCB) types were unified in external dimensions for the first time in the world. The Twin Breaker Series was highly evaluated and gained strong support, and the concept of Twin Breakers was established as Japan's de facto standards for MCCBs and ELCBs. In 1992, Fuji Electric released the Super Twin Breaker Series, which enabled user installation of internal accessories for the first time in Japan. In 1995, Fuji Electric released the Super 60 Series and advanced modularization via uniform external dimensions. In 2001, Fuji Electric launched the α-Twin Series to further advance the miniaturization and modularization of economic types with 100A frame or less as Japan's first multi-standard circuit breakers satisfying domestic and international standards. Since then, Fuji Electric has been making further product improvements by predicting market trends. In recent years, market globalization has increasingly accelerated. At the end of 2004, the Japanese Industrial Standards (JIS) were aligned with the IEC standards, and the globalization in this field has been further accelerated. Based on the Twin Breaker Series, Fuji Electric has expanded the range of its products conforming to and approved by international standards for global markets, always advanced the innovative development of fundamental technologies in response to the market demand, and developed the G-TWIN Series of MCCBs and ELCBs.

Usefulness

Leading the way in user-friendliness

