## Molded Case Circuit Breaker, Miniature Circuit Breaker

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| Certificate | ISO 14001 | KSA | KSA-QA | CHEONGJU<br>· 1st Plant : Production of Electric Low Voltage<br>· 2nd Plant : Production of Electric High Voltage | 18 |
| Certificate | ISO 9001 | KSA KAB | KSA-QA | CHEONGJU<br>· 1st Plant : Production of Electric Low Voltage<br>· 2nd Plant : Production of Electric High Voltage | 19 |
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| D.O.C. | IEC 60947 | | LGIS | GBN 53, GBN 103, GBN 203, GBH 53, GBH 103, GBH 203, GBL 53, GBL 103, GBL 203 | 28 |
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| D.O.C. | EN 60898 | | LGIS | BKN-Series | 30 |
| D.O.C. | EN 60898 | | LGIS | RKN-Series | 31 |
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| C.O.C. | IEC 60947, EN 60947-2 | | KEMA | ABS 103b, ABH 53b, ABH 63b, ABH 103b | 33 |
| C.O.C. | IEC 60947, EN 60947-2 | | KEMA | ABE 203b, ABS 203b, ABH 203b | 34 |
| C.O.C. | IEC 60947 | | KEMA | GBN 53, GBN 103, GBN 203, GBH 53, GBH 103, GBH 203, GBL 53, GBL 103, GBL 203 | 35 |
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| C.O.C. | IEC 947 | | TÜV | ABL 103a | 39 |
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| C.O.C. | IEC 947 | | TÜV | ABS 803a | 46 |
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| Certificate | UL 489 | UL | UL | ABS 102U, ABS 103U, ABS 202U, ABS 203U, ABH 102U, ABH 103U, ABH 202U, ABH 203U, ABL 102U, ABL 103U, ABL 202U, ABL 203U | 52~54 |
| Certificate | UL 489 | | UL | ABS 402U, ABS 403U, ABH 402U, ABH 403U, ABL 402U, ABL 403U | 55~56 |
| Certificate | UL 489 | | UL | ABS 602U, ABS 603U, ABH 602U, ABH 603U, ABL 602U, ABL 603U | 57~58 |
| Certificate | IEC 60947 | Lloyd's Register | LR | ABE 53b, ABE 63b, ABE 103b, ABE 203b,<br>ABS 33b, ABS 53b, ABS 63b, ABS 103b,<br>ABH 33b, ABH 53b, ABH 103b, ABH 203b | 59 |
| Certificate | IEC 60947 | | LR | ABE 32, ABE 33, ABE 402a, ABE 403a, ABE 602a, ABE 603a, ABE 802a, ABE 803a,<br>ABS 402a, ABS 403a, ABS 602a, ABS 603a, ABS 802a, ABS 803a, | 60~63 |

Note) D.O.C. : DECLARATION OF CONFORMITY
C.O.C. : CERIFICATE OF CONFORMITY

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| Certificate | IEC 60947 | | LR | ABH 402a, ABH 403a, ABL 52a, ABL 53a, ABL 102a, ABL 103a, ABL 202a, ABL 203a,<br>ABL 402a, ABH 403a, ABH 602a, ABL 603a, ABL 802a, ABL 803a | 60~63 |
| Certificate | IEC 60947 | | KR | ABE 52b, ABE 53b, ABE 62b, ABE 63b, ABE 102b, ABE 103b, ABE 202b, ABE 203b,<br>ABS 32b, ABS 33b, ABS 52b, ABS 53b, ABS 62b, ABS 63b, ABS 102b, ABS 103b,<br>ABS 202b, ABS 203b,<br>ABH 32b, ABH 33b, ABH 52b, ABH 53b, ABH 62b, ABH 63b, ABH 102b, ABH 103b,<br>ABH 202b, ABH 203b | 64~65 |
| Certificate | IEC 60947 | | KR | ABE 402a, ABE 403a, ABE 602a, ABE 603a, ABE 802a, ABE 803a,<br>ABS 402a, ABS 403a, ABS 602a, ABS 603a, ABS 803a, ABS 803a,<br>ABH 402a, ABH 403a,<br>ABL 52a, ABL 53a, ABL 102a, ABL 103a, ABL 202a, ABL 203a,<br>ABL 402a, ABL 403a, ABL 602a, ABL 603a, ABL 802a, ABL 803a | 66~67 |
| Certificate | GB 14048 | | GB | ABE 53b, ABE 63b, ABE 103b, ABE 104b,<br>ABS 33b, ABS 53b, ABS 54b, ABS 63b, ABS 64b, ABH 33b | 68~69 |
| Certificate | GB 14048 | | GB | ABS 103b, ABS 104b, ABH 53b, ABH 54b, ABH 103b, ABH 104b, | 70~71 |
| Certificate | GB 14048 | | GB | ABE 203b, ABE 204b, ABS 203b, ABS 204b, ABH 203b, ABH 204b | 72~73 |
| Certificate | GB 14048 | | GB | ABL 53a, ABL 103a | 74~75 |
| Certificate | GB 14048 | | GB | ABS 403a, ABH 403a, ABL 403a | 76~77 |
| Certificate | GB 14048 | | GB | ABE 803a, ABS 803a, ABL 803a | 78~79 |
| Certificate | GB 14048 | | GB | BKM1, BKM2, BKM3 | 80~81 |
| Certificate | PSE | | JET | ABE 52b, ABE 62b, ABS 32b, ABS 33b, ABS 52b, ABS 53b, ABS 62b, ABS 63b<br>ABH 102b, ABH 103b | 82~105 |
| Certificate | PSE | | JET | EBE 53b, EBE 63b, EBE 103b, EBS 33b, EBS 53b, EBS 63b, EBH 103b | 106~125 |
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| Certificate | EN 60989 | | TSE | GBN-103, GBN-203, GBH-103, ABH-403a, ABS-803a | 127 |

## Contactor, Overload Relay

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| D.O.C. | IEC 60947 | | LGIS | GMC(D)-9, GMC(D)-12, GMC(D)-18, GMC(D)-22, GMC(D)-32,<br>GMC(D)-40, GMC(D)-48, GMC(D)-50, GMC(D)-65, GMC(D)-75, GMC(D)-85,<br>GMC(D)-50a, GMC(D)-65a, GMC(D)-75a, GMC(D)-85a | 128 |
| D.O.C. | IEC 60947 | | LGIS | GMC(D)-9/4, GMC(D)-12/4, GMC(D)-18/4, GMC(D)-22/4, GMC(D)-32/4,<br>GMC(D)-40/4, GMC(D)-50/4, GMC(D)-65/4, GMC(D)-75/4, GMC(D)-85/4 | 129 |
| D.O.C. | IEC 60947, IEC 61000 | | LGIS | GMC-100, GMC-125, GMC-150, GMC-180,<br>GMC-220, GMC-300, GMC-400, GMC-600, GMC-800 | 130 |
| D.O.C. | IEC 60947, IEC 61000 | | LGIS | GMC-100/4, GMC-125/4, GMC-150/4, GMC-180/4, GMC-220/4,<br>GMC-300/4, GMC-400/4, GMC-600/4, GMC-800/4 | 131 |
| D.O.C. | IEC 60947 | | LGIS | GMS-9, GMS-12, GMS-18, GMS-22, GMS-32, GMS-40,<br>GMS-50, GMS-65, GMS-75, GMS-85 | 132 |
| D.O.C. | IEC 60947, IEC 61000 | | LGIS | GMS-100, GMS-125, GMS-150, GMS-180, GMS-220, GMS-300,<br>GMS-400, GMS-600, GMS-800 | 133 |
| D.O.C. | IEC 60947 | | LGIS | GMC(D)-9R, GMC(D)-12R, GMC(D)-18R, GMC(D)-22R, GMC(D)-32R,<br>GMC(D)-40R, GMC(D)-50R, GMC(D)-65R, GMC(D)-75R, GMC(D)-85R | 134 |
| D.O.C. | IEC 60947 | | LGIS | GMS-9R, GMS-12R, GMS-18R, GMS-22R, GMS-32R,<br>GMS-40R, GMS-50R, GMS-65R, GMS-75R, GMS-85R | 135 |

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| D.O.C. | IEC 60947 | | LGIS | GMR-4M, GMR-6M, GMR-8M, GMR-4M,D GMR-6MD, GMR-8MD, AU-1M, AU-2M, AU-4M, AR-12M, AZ-12M | 145 |
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| C.O.C. | IEC 60947 | | KEMA | GMR-4, GMR-6, GMR-8, GMR-4D, GMR-6D, GMR-8D, AU-1, AU-2, AU-4, GTH-22, GTK-22, GTH-40, GTK-40, GTH-85, GTK-85 | 153 |
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| C.O.C. | IEC 60947 | | KEMA | GMC(D)-9/4, GMC(D)-12/4, GMC(D)-18/4, GMC(D)-22/4, GMC(D)-32/4, GMC(D)-40/4, GMC(D)-50/4, GMC(D)-65/4, GMC(D)-75/4, GMC(D)-85/4 GMC-100/4, GMC-125/4, GMC-150/4, GMC-180/4, GMC-220/4, GMC-300/4, GMC-400/4, GMC-600/4, GMC-800/4 | 155 |
| C.O.C. | IEC 60947 | | KEMA | GMC-6M, GMC-9M, GMC-12M, GMC-16M, GMD-6M, GMD-9M, GMD-12M, GMD-16M, GTH(K)-16M | 156 |
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| C.O.C. | IEC 60947 | | TÜV | GMS-100, GMS-125 | 167 |
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| C.O.C. | IEC 60947 | | TÜV | GMS-300, GMS-400 | 170 |
| C.O.C. | IEC 60947 | | TÜV | GMS-600, GMS-800 | 171 |
| C.O.C. | IEC 60947 | | TÜV | GTK-100, GTH-100 | 172 |
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| Certificate | UL 508 | | UL | GMC-100, GMC-125, GMC-150, GMC-180, GMC-220,<br>GMC-300, GMC-400, GMC-600, GMC-800,<br>GTH(K)-100, GTH(K)-150, GTH(K)-220, GTH(K)-400, GTH(K)-600,<br>AU-1, AU-2, AU-4, AU-100, AR-100, AR-180 | 187~191 |
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| Certificate | UL 508 | | UL | GMC-6M, GMC-9M, GMC-12M, GMC-16M,<br>GMD-6M, GMD-9M, GMD-12M, GMD-16M, GTH(K)-16 | 206~208 |
| Certificate | IEC 60947 | | LR | GMC(D)-9, GMC(D)-12, GMC(D)-18, GMC(D)-22, GMC(D)-32,<br>GMC(D)-40, GMC(D)-50, GMC(D)-65, GMC(D)-75, GMC(D)-85 | 209~210 |
| Certificate | IEC 60947 | | LR | GMR-4, GMR-6, GMR-8, GMR-4D, GMR-6D, GMR-8D | 211 |
| Certificate | IEC 60947 | | LR | GTH(K)-22, GTH(K)-40, GTH(K)-85 | 212 |
| Certificate | IEC 60947 | | LR | SMC(D)-10P, SMC(D)-15P, SMC(D)-20P, SMC(D)-25P, SMC(D)-25P,<br>SMC(D)-35P, SMC(D)-48P, SMC(D)-50P, SMC(D)-65P, SMC(D)-80P,<br>CH-3, CH-3/G, CH-3N, CH-3N/G, CH-5, CH-5/G, CH-6N, CH-6N/G,<br>CH-7.5N, CH-7.5N/G, CH-10N, CH-10N/G, CH-15N, CH-15N/G<br>GMC-100, GMC-125, GMC-150, GMC-180, GMC-220, GMC-300,<br>GMC-400, GMC-600, GMC-800, | 213~216 |
| Certificate | IEC 60947 | | NK | GMC(D)-9, GMC(D)-12, GMC(D)-18, GMC(D)-22, GMC(D)-32,<br>GMC(D)-40, GMC(D)-50, GMC(D)-65, GMC(D)-75, GMC(D)-85,<br>GMC-125, GMC-150, GMC-180, GMC-220, GMC-300,<br>GMC-400, GMC-600, GMC-800 | 217 |
| Certificate | IEC 60947 | | BV | GMC(D)-40, GMC(D)-50, GMC(D)-65, GMC(D)-75, GMC(D)-85,<br>GMC-125, GMC-150, GMC-180, GMC-220, GMC-300,<br>GMC-400, GMC-600, GMC-800,<br>GTH(K)-22, GTH(K)-40, GTH(K)-85, GTH(K)-100,<br>GTH(K)-150, GTH(K)-220, GTH(K)-400, GTH(K)-600,<br>GMR-4, GMR-4D, GMR-6, GMR-6D, GMR-8, GMR-8D | 218~221 |
| Certificate | IEC 60947 | | KR | GMC-9, GMC-12, GMC-18, GMC-22, GMC-32, GMC-40, GMC-50,<br>GMC-65, GMC-75, GMC-85, GMC-100, GMC-125,GMC-150,<br>GMC-180, GMC-220, GMC--300, GMC-400, GMC-600, GMC-800 | 222~-223 |
| Certificate | IEC 60947 | | KR | GMC(D)-9, GMC(D)-12, GMC(D)-18, GMC(D)-22, GMC(D)-32,<br>GMC(D)-40, GMC(D)-50, GMC(D)-75, GMC(D)-85, | 224~225 |
| Certificate | GB14048 | | GB | GMC(D)-9, GMC(D)-12, GMC(D)-18, GMC(D)-22, GMC(D)-9/4, GMC(D)-12/4,<br>GMC(D)-18/4, GMC(D)-22/4, | 226~227 |
| Certificate | GB14048 | | GB | GMC(D)-32, GMC(D)-40, GMC(D)-32/4, GMC(D)-40/4, | 228~229 |
| Certificate | GB14048 | | GB | GMC(D)-50, GMC(D)-65, GMC(D)-75, GMC(D)-85, GMC(D)-50/4,<br>GMC(D)-65/4, GMC(D)-75/4, GMC(D)-85/4, | 230~231 |
| Certificate | GB 14048 | | GB | GMC-100, GMC-125, GMC-100/4, GMC-125/4 | 232~233 |
| Certificate | GB 14048 | | GB | GMC-150, GMC-150/4 | 234~235 |
| Certificate | GB 14048 | | GB | GMC-180, GMC-200, GMC-180/4, GMC-220/4 | 236~237 |
| Certificate | GB 14048 | | GB | GMC-300, GMC-400, GMC-300/4, GMC-400/4 | 238~239 |
| Certificate | GB 14048 | | GB | GMC-600, GNV-800, GMC-600/4, GMC-800/4 | 240~241 |
| Certificate | GB 14048 | | GB | GTH-22, GTK-22 | 242~243 |
| Certificate | GB 14048 | | GB | GTH-40, GTK-40 | 244~245 |
| Certificate | GB 14048 | | GB | GTH-85/3, GTK-85 | 246~247 |

| Type | Standard | Mark | Certification body | Description | Page |
|---|---|---|---|---|---|
| Certificate | GB 14048 | | GB | GTH-100/3, GTK-100 | 248~259 |
| Certificate | GB 14048 | | GB | GTH-150/3, GTK-150 | 250~251 |
| Certificate | GB 14048 | | GB | GTH-220/3, GTK-200 | 252~253 |
| Certificate | GB 14048 | | GB | GTH-400/3, GTK-400 | 254~255 |
| Certificate | GB 14048 | | GB | GTH-600/3, GTK-600 | 256~257 |
| Certificate | PSE | | JET | GMW-22B | 258~261 |
| Certificate | PSE | | JET | GMW-22MB | 262~268 |
| Certificate | PSE | | JET | GMW-40B | 269~270 |
| Certificate | PSE | | JET | GMW-85B | 271~274 |
| Certificate | EN 60947 | | TSE | GMC-9, GMC-12, GMC-18, GMC-22, GMC-32, GMC-40,<br>GMC-50, GMC-65, GMC-75, GMC-85, GMC-100,<br>GMC-125, GMC-150, GMC-180, GMC-220,<br>GMC-300, GMC-400, GMC-600, GMC-800 | 275~276 |

## Air Circuit Breaker

| Type | Standard | Mark | Certification body | Description | Page |
|---|---|---|---|---|---|
| Certificate | IEC 60947-2 | KEMA | KEMA | LBA-40S-3EC, LBA-50S-3EC | 277 |
| Certificate | IEC 60947-2 | CESI | CESI | LBA-16S-3EC | 278 |
| Certificate | IEC 60947-2 | | CESI | LBA-32S-3EC | 279 |
| Certificate | GB 14048 | | GB | LBA-16C | 280~281 |
| Certificate | GB 14048 | | GB | LBA-32C | 282~283 |

## Molded Case Circuit Breaker, Miniature Circuit Breaker

| Type \ Mark | | Approvals | | | | Certificates | | |
|---|---|---|---|---|---|---|---|---|
| | | CE | KR | LR | CCC | KERI | KEMA | TÜV |
| | | Europe | Korea | U.K | China | Korea | Netherlands | Germany |
| MCCB | ABE 52b | | ● | | | | | |
| | ABE 53b | ● | ● | ● | ● | | ● | |
| | ABE 62b | | ● | | | | | |
| | ABE 63b | ● | ● | ● | ● | | ● | |
| | ABE 102b | | ● | | | | | |
| | ABE 103b | ● | ● | ● | ● | | ● | |
| | ABE 202b | | ● | | | | | |
| | ABE 203b | ● | ● | ● | ● | | ● | |
| | ABE 402a | | ● | ● | | | | |
| | ABE 403a | ● | ● | ● | | | | ● |
| | ABE 602a | | ● | ● | | | | |
| | ABE 603a | ● | ● | ● | | | | ● |
| | ABE 802a | | ● | ● | | | | |
| | ABE 803a | ● | ● | ● | ● | | | ● |
| | ABS 32b | | ● | | | | | |
| | ABS 33b | ● | ● | ● | ● | | ● | |
| | ABS 52b | | ● | | | | | |
| | ABS 53b | ● | ● | ● | ● | | ● | |
| | ABS 62b | | ● | | | | | |
| | ABS 63b | ● | ● | ● | ● | | ● | |
| | ABS 102b | | ● | | | | | |
| | ABS 103b | ● | ● | ● | ● | | ● | |
| | ABS 202b | | ● | | | | | |
| | ABS 203b | ● | ● | ● | ● | | ● | |
| | ABS 402a | | ● | ● | | | | |
| | ABS 403a | ● | ● | ● | ● | | | ● |
| | ABS 602a | | ● | ● | | | | |
| | ABS 603a | ● | ● | ● | | | | ● |
| | ABS 802a | | ● | ● | | | | |
| | ABS 803a | ● | ● | ● | ● | | | ● |
| | ABH 32b | | ● | | | | | |
| | ABH 33b | ● | ● | ● | ● | | | |
| | ABH 52b | | ● | | | | ● | |
| | ABH 53b | ● | ● | ● | ● | | | |
| | ABH 102b | | ● | | | | ● | |
| | ABH 103b | ● | ● | ● | ● | | ● | |
| | ABH 202b | | ● | | | | | |
| | ABH 203b | ● | ● | ● | ● | | ● | |
| | ABH 202a | | ● | ● | | | | |
| | ABH 203a | ● | ● | ● | | | | |
| | ABH 402a | | ● | ● | | | | |
| | ABH 403a | ● | ● | ● | ● | | | ● |
| | ABL 52a | | ● | ● | | | | |
| | ABL 53a | ● | ● | ● | ● | | | ● |
| | ABL 102a | | ● | ● | | | | |
| | ABL 103a | ● | ● | ● | ● | ● | | ● |
| | ABL 103aIN | | | | | | | |
| | ABL 202a | | ● | ● | | | | |
| | ABL 203a | ● | ● | ● | | ● | | ● |
| | ABL 203aIN | | | | | ● | | |
| | ABL 402a | | ● | ● | | | | |
| | ABL 403a | ● | ● | ● | ● | | | ● |
| | ABL 602a | | ● | ● | | | | |

| Type \ Mark | | Approvals | | | | | Certificates | | |
|---|---|---|---|---|---|---|---|---|---|
| | | CE | UL | KR | LR | CCC | KERI | KEMA | TÜV |
| | | Europe | U.S.A | Korea | U.K | China | Korea | Netherlands | Germany |
| MCCB | ABL 603a | ● | | ● | ● | | | | ● |
| | ABL 802a | | | ● | ● | | | | |
| | ABL 803a | ● | | ● | ● | ● | | | ● |
| | ABS 102U | | ● | | | | | | |
| | ABS 103U | | ● | | | | | | |
| | ABS 202U | | ● | | | | | | |
| | ABS 203U | | ● | | | | | | |
| | ABS 402U | | ● | | | | | | |
| | ABS 403U | | ● | | | | | | |
| | ABS 602U | | ● | | | | | | |
| | ABS 603U | | ● | | | | | | |
| | ABH 102U | | ● | | | | | | |
| | ABH 103U | | ● | | | | | | |
| | ABH 202U | | ● | | | | | | |
| | ABH 203U | | ● | | | | | | |
| | ABH 402U | | ● | | | | | | |
| | ABH 403U | | ● | | | | | | |
| | ABH 602U | | ● | | | | | | |
| | ABH 603U | | ● | | | | | | |
| | ABL 102U | | ● | | | | | | |
| | ABL 103U | | ● | | | | | | |
| | ABL 202U | | ● | | | | | | |
| | ABL 203U | | ● | | | | | | |
| | ABL 402U | | ● | | | | | | |
| | ABL 403U | | ● | | | | | | |
| | ABL 602U | | ● | | | | | | |
| | ABL 603U | | ● | | | | | | |
| | GBN 53 | ● | | | | | | ● | |
| | GBN 103 | ● | | | | | | ● | |
| | GBN 203 | ● | | | | | | ● | |
| | GBH 53 | ● | | | | | | ● | |
| | GBH 103 | ● | | | | | | ● | |
| | GBH 203 | ● | | | | | | ● | |
| | GBL 53 | ● | | | | | | ● | |
| | GBL 103 | ● | | | | | ● | ● | |
| | GBL 103IN | | | | | | ● | | |
| | GBL 203 | ● | | | | | ● | ● | |
| | GBL 203IN | | | | | | ● | | |
| | BKM 1P(C curve) | ● | | ● | | ● | | | ● |
| | BKM 2P(C curve) | ● | | ● | | ● | | | ● |
| | BKM 3P(C curve) | ● | | ● | | ● | | | ● |
| | BKM 4P(C curve) | | | ● | | | | | |
| | BKM 1P(B curve) | | | ● | | | | | |
| | BKM 2P(B curve) | | | ● | | | | | |
| | BKM 3P(B curve) | | | ● | | | | | |
| | BKN | ● | | | | | | | |
| | RKN | ● | | | | | | | |

## Contactor, Overload Relay

| Type | Mark | Approvals | | | | | | | | Certificates | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CE | UL & CSA | | KR | LR | NK | BV | CCC | KEMA | TÜV |
| | | Europe | U.S.A | Canada | Korea | U.K | Japan | France | China | Netherlands | Germany |
| Contactor | GMS-9 | ● | ● | ● | | | | | | ● | |
| | GMS-12 | ● | ● | ● | | | | | | ● | |
| | GMS-18 | ● | ● | ● | | | | | | ● | |
| | GMS-22 | ● | ● | ● | | | | | | ● | |
| | GMS-32 | ● | ● | ● | | | | | | ● | |
| | GMS-40 | ● | ● | ● | | | | | | ● | |
| | GMS-50 | ● | ● | ● | | | | | | ● | |
| | GMS-65 | ● | ● | ● | | | | | | ● | |
| | GMS-75 | ● | ● | ● | | | | | | ● | |
| | GMS-85 | ● | ● | ● | | | | | | ● | |
| | GMS-100 | ● | ● | ● | | | | | | | ● |
| | GMS-125 | ● | ● | ● | | | | | | | ● |
| | GMS-150 | ● | ● | ● | | | | | | | ● |
| | GMS-180 | ● | ● | ● | | | | | | | ● |
| | GMS-220 | ● | ● | ● | | | | | | | ● |
| | GMS-300 | ● | ● | ● | | | | | | | ● |
| | GMS-400 | ● | ● | ● | | | | | | | ● |
| | GMS-600 | ● | ● | ● | | | | | | | ● |
| | GMS-800 | ● | ● | ● | | | | | | | ● |
| | GMW-9M(B) | ● | ● | ● | | | | | | ● | |
| | GMW-12M(B) | ● | ● | ● | | | | | | ● | |
| | GMW-18M(B) | ● | ● | ● | | | | | | ● | |
| | GMW-22M(B) | ● | ● | ● | | | | | | ● | |
| | GMW-9(B) | ● | ● | ● | | | | | | ● | |
| | GMW-12(B) | ● | ● | ● | | | | | | ● | |
| | GMW-18(B) | ● | ● | ● | | | | | | ● | |
| | GMW-22(B) | ● | ● | ● | | | | | | ● | |
| | GMW-32(B) | ● | ● | ● | | | | | | ● | |
| | GMW-40(B) | ● | ● | ● | | | | | | ● | |
| | GMW-50(B) | ● | ● | ● | | | | | | ● | |
| | GMW-65(B) | ● | ● | ● | | | | | | ● | |
| | GMW-75(B) | ● | ● | ● | | | | | | ● | |
| | GMW-85(B) | ● | ● | ● | | | | | | ● | |
| | GMC-9 | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | GMC-12 | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | GMC-18 | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | GMC-22 | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | GMC-32 | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | GMC-40 | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | GMC-50 | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | GMC-65 | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | GMC-75 | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | GMC-85 | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | GMC-100 | ● | ● | ● | ● | ● | ● | ● | ● | | ● |
| | GMC-125 | ● | ● | ● | ● | ● | ● | ● | ● | | ● |
| | GMC-150 | ● | ● | ● | ● | ● | ● | ● | ● | | ● |
| | GMC-180 | ● | ● | ● | ● | ● | ● | ● | ● | | ● |
| | GMC-220 | ● | ● | ● | ● | ● | ● | ● | ● | | ● |
| | GMC-300 | ● | ● | ● | ● | ● | ● | ● | ● | | ● |
| | GMC-400 | ● | ● | ● | ● | ● | ● | ● | ● | | ● |
| | GMC-600 | ● | ● | ● | ● | ● | ● | ● | ● | | ● |
| | GMC-800 | ● | ● | ● | ● | ● | ● | ● | ● | | ● |

| Type | Mark | Approvals | | | | | | | | Certificates | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CE | UL & CSA | | KR | LR | BV | NK | CCC | KEMA | TÜV |
| | | Europe | U.S.A | Canada | Korea | U.K | France | Japan | China | Netherlands | Germany |
| Contactor | GMD-9 | ● | ● | ● | ● | ● | ● | ● | | ● | |
| | GMD-12 | ● | ● | ● | ● | ● | ● | ● | | ● | |
| | GMD-18 | ● | ● | ● | ● | ● | ● | ● | | ● | |
| | GMD-22 | ● | ● | ● | ● | ● | ● | ● | | ● | |
| | GMD-32 | ● | ● | ● | ● | ● | ● | ● | | ● | |
| | GMD-40 | ● | ● | ● | ● | ● | ● | ● | | ● | |
| | GMD-50 | ● | ● | ● | ● | ● | ● | ● | | ● | |
| | GMD-65 | ● | ● | ● | ● | ● | ● | ● | | ● | |
| | GMD-75 | ● | ● | ● | ● | ● | ● | ● | | ● | |
| | GMD-85 | ● | ● | ● | ● | ● | ● | ● | | ● | |
| | GMC-9R | ● | ● | ● | | | | | | ● | |
| | GMC-12R | ● | ● | ● | | | | | | ● | |
| | GMC-18R | ● | ● | ● | | | | | | ● | |
| | GMC-22R | ● | ● | ● | | | | | | ● | |
| | GMC-32R | ● | ● | ● | | | | | | ● | |
| | GMC-40R | ● | ● | ● | | | | | | ● | |
| | GMC-50R | ● | ● | ● | | | | | | ● | |
| | GMC-65R | ● | ● | ● | | | | | | ● | |
| | GMC-75R | ● | ● | ● | | | | | | ● | |
| | GMC-85R | ● | ● | ● | | | | | | ● | |
| | GMC-100R | ● | ● | ● | | | | | | | ● |
| | GMC-125R | ● | ● | ● | | | | | | | ● |
| | GMC-150R | ● | ● | ● | | | | | | | ● |
| | GMC-180R | ● | ● | ● | | | | | | | ● |
| | GMC-220R | ● | ● | ● | | | | | | | ● |
| | GMC-300R | ● | ● | ● | | | | | | | ● |
| | GMC-400R | ● | ● | ● | | | | | | | ● |
| | GMR-4 | ● | ● | ● | | | ● | ● | | ● | |
| | GMR-6 | ● | ● | ● | | | ● | ● | | ● | |
| | GMR-8 | ● | ● | ● | | | ● | ● | | ● | |
| | GMR-4D | ● | ● | ● | | | ● | ● | | ● | |
| | GMR-6D | ● | ● | ● | | | ● | ● | | ● | |
| | GMR-8D | ● | ● | ● | | | ● | ● | | ● | |
| | SMD-10M | ● | | | | | | | | | ● |
| | SMC-20P2 | | ● | ● | | | | | | | |
| | SMC-25P2 | | ● | ● | | | | | | | |
| | SMC-30P2 | | ● | ● | | | | | | | |
| Overload Relay | GTH-22 | ● | | | ● | | ● | ● | ● | ● | |
| | GTH-40 | ● | | | ● | | ● | ● | ● | ● | |
| | GTH-85 | ● | | | ● | | ● | ● | ● | ● | |
| | GTH-100 | ● | | | ● | | ● | ● | ● | | ● |
| | GTH-150 | ● | | | ● | | ● | ● | ● | | ● |
| | GTH-220 | ● | | | ● | | ● | ● | ● | | ● |
| | GTH-400 | ● | | | ● | | ● | ● | ● | | ● |
| | GTH-600 | ● | | | ● | | ● | ● | ● | | ● |
| | GTK-22 | ● | ● | ● | ● | | ● | ● | | ● | |
| | GTK-40 | ● | ● | ● | ● | | ● | ● | | ● | |
| | GTK-85 | ● | ● | ● | ● | | ● | ● | | ● | |
| | GTK-100 | ● | ● | ● | ● | | ● | ● | | | ● |
| | GTK-150 | ● | ● | ● | ● | | ● | ● | | | ● |
| | GTK-220 | ● | ● | ● | ● | | ● | ● | | | ● |
| | GTK-400 | ● | ● | ● | ● | | ● | ● | | | ● |
| | GTK-600 | ● | ● | ● | ● | | ● | ● | | | ● |

## Contactor, Overload Relay

| Type | Mark | Approvals | | | | | | | | Certificates | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CE | UL & CSA | | KR | LR | NK | BV | CCC | KEMA | TÜV |
| | | Europe | U.S.A | Canada | Korea | U.K | Japan | France | China | Netherlands | Germany |
| Contactor | GMC-9/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-12/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-18/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-22/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-32/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-40/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-50/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-65/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-75/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-85/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-100/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-125/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-150/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-180/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-220/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-300/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-400/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-600/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-800/4 | ● | ● | ● | | | | | ● | ● | |
| | GMD-9/4 | ● | ● | ● | | | | | ● | ● | |
| | GMD-12/4 | ● | ● | ● | | | | | ● | ● | |
| | GMD-18/4 | ● | ● | ● | | | | | ● | ● | |
| | GMD-22/4 | ● | ● | ● | | | | | ● | ● | |
| | GMD-32/4 | ● | ● | ● | | | | | ● | ● | |
| | GMD-40/4 | ● | ● | ● | | | | | ● | ● | |
| | GMD-50/4 | ● | ● | ● | | | | | ● | ● | |
| | GMD-65/4 | ● | ● | ● | | | | | ● | ● | |
| | GMD-75/4 | ● | ● | ● | | | | | ● | ● | |
| | GMD-85/4 | ● | ● | ● | | | | | ● | ● | |
| | GMC-6M | ● | ● | ● | | | | | | ● | |
| | GMC-9M | ● | ● | ● | | | | | | ● | |
| | GMC-12M | ● | ● | ● | | | | | | ● | |
| | GMC-16M | ● | ● | ● | | | | | | ● | |
| | GMD-6M | ● | ● | ● | | | | | | ● | |
| | GMD-9M | ● | ● | ● | | | | | | ● | |
| | GMD-12M | ● | ● | ● | | | | | | ● | |
| | GMD-16M | ● | ● | ● | | | | | | ● | |
| | GMR-4M | ● | ● | ● | | | | | | ● | |
| | GMR-6M | ● | ● | ● | | | | | | ● | |
| | GMR-8M | ● | ● | ● | | | | | | ● | |
| | GMR-4MD | ● | ● | ● | | | | | | ● | |
| | GMR-6MD | ● | ● | ● | | | | | | ● | |
| | GMR-8MD | ● | ● | ● | | | | | | ● | |
| | GTH(K)-16M | ● | ● | ● | | | | | | ● | |

## EMPR/EMPR

| Type \ Mark | | Approvals | | | | | | Certificates | |
|---|---|---|---|---|---|---|---|---|---|
| | | CE | UL & CSA | | KR | LR | CCC | KEMA | TÜV Rheinland |
| | | Europe | U.S.A | Canada | Korea | U.K | China | Netherlands | Germany |
| Overload Relay | GMP22-2P | ● | ● | ● | | | | ● | |
| | GMP22-3P | ● | ● | ● | | | | ● | |
| | GMP22-3PR | ● | ● | ● | | | | ● | |
| | GMP40-2P | ● | ● | ● | | | | ● | |
| | GMP40-3P | ● | ● | ● | | | | ● | |
| | GMP40-3PR | ● | ● | ● | | | | ● | |
| | GMP22-2S | ● | ● | ● | | | | ● | |
| | GMP22-3S | ● | ● | ● | | | | ● | |
| | GMP22-3SR | ● | ● | ● | | | | ● | |
| | GMP40-2S | ● | ● | ● | | | | ● | |
| | GMP40-3S | ● | ● | ● | | | | ● | |
| | GMP40-3SR | ● | ● | ● | | | | ● | |
| | GMP80-2S | ● | ● | ● | | | | | ● |
| | GMP80-3S | ● | ● | ● | | | | | ● |
| | GMP80-3SR | ● | ● | ● | | | | | ● |
| | GMP22-2T | ● | ● | ● | | | | ● | |
| | GMP22-3T | ● | ● | ● | | | | ● | |
| | GMP22-3TR | ● | ● | ● | | | | ● | |
| | GMP40-2T | ● | ● | ● | | | | ● | |
| | GMP40-3T | ● | ● | ● | | | | ● | |
| | GMP40-3TR | ● | ● | ● | | | | ● | |
| | GMP60T | ● | ● | ● | | | | | ● |
| | DMP06-S | ● | ● | ● | | | | | ● |
| | DMP06-Sa | ● | ● | ● | | | | | ● |
| | DMP06-T | ● | ● | ● | | | | | ● |
| | DMP06-Ta | ● | ● | ● | | | | | ● |
| | DMP60-S | ● | ● | ● | | | | | ● |
| | DMP60-Sa | ● | ● | ● | | | | | ● |
| | DMP60-T | ● | ● | ● | | | | | ● |
| | DMP60-Ta | ● | ● | ● | | | | | ● |
| | DMP06-SZ | ● | ● | ● | | | | | ● |
| | DMP06-SZa | ● | ● | ● | | | | | ● |
| | DMP06-TZ | ● | ● | ● | | | | | ● |
| | DMP06-TZa | ● | ● | ● | | | | | ● |
| | DMP60-SZ | ● | ● | ● | | | | | ● |
| | DMP60-SZa | ● | ● | ● | | | | | ● |
| | DMP60-TZ | ● | ● | ● | | | | | ● |
| | DMP60-TZa | ● | ● | ● | | | | | ● |
| | DMP06-SI | ● | ● | ● | | | | | ● |
| | DMP06-TI | ● | ● | ● | | | | | ● |
| | DMP60-SI | ● | ● | ● | | | | | ● |
| | DMP60-TI | ● | ● | ● | | | | | ● |

## Air Circuit Breaker

| Type \ Mark | Approvals | Certificates | | | |
|---|---|---|---|---|---|
| | CCC | KERI | KEMA | CESI | SEC |
| | China | Korea | U.S.A | Italy | Saudi Arabia |
| LBA-06□-3PC | ● | | | | ● |
| LBA-06□-3EC | ● | ● | | ● | ● |
| LBA-06□-4PC | ● | | | | ● |
| LBA-06□-4EC | ● | | | | ● |
| LBA-06□-3PC | ● | | | | ● |
| LBA-06□-3EC | ● | ● | | ● | ● |
| LBA-06□-4PC | ● | | | | ● |
| LBA-06□-4EC | ● | | | | ● |
| LBA-10□-3PC | ● | | | | ● |
| LBA-10□-3EC | ● | ● | | ● | ● |
| LBA-10□-4PC | ● | | | | ● |
| LBA-10□-4EC | ● | | | | ● |
| LBA-13□-3PC | ● | | | | ● |
| LBA-13□-3EC | ● | ● | | ● | ● |
| LBA-13□-4PC | ● | | | | ● |
| LBA-13□-4EC | ● | | | | ● |
| LBA-16□-3PC | ● | | | | ● |
| LBA-16□-3EC | ● | ● | | ● | ● |
| LBA-16□-4PC | ● | | | | ● |
| LBA-16□-4EC | ● | | | | ● |
| LBA-20□-3PC | ● | | | | ● |
| LBA-20□-3EC | ● | ● | | ● | ● |
| LBA-20□-4PC | ● | | | | ● |
| LBA-20□-4EC | ● | | | | ● |
| LBA-25□-3PC | ● | | | | ● |
| LBA-25□-3EC | ● | ● | | ● | ● |
| LBA-25□-4PC | ● | | | | ● |
| LBA-25□-4EC | ● | | | | ● |
| LBA-32□-3PC | ● | | | | ● |
| LBA-32□-3EC | ● | ● | | ● | ● |
| LBA-32□-4PC | ● | | | | ● |
| LBA-32□-4EC | ● | | | | ● |
| LBA-40□-3PC | ● | | | | |
| LBA-40□-3EC | ● | | ● | | |
| LBA-40□-4PC | ● | | | | |
| LBA-40□-4EC | ● | | | | |
| LBA-50□-3PC | ● | | | | |
| LBA-50□-3EC | ● | | ● | | |
| LBA-50□-4PC | ● | | | | |
| LBA-50□-4EC | ● | | | | |

| Mark | Name |
|---|---|
|  | ISO9001 |
|  | ISO14001 |
|  | CE (Conformite European) |
|  | UL (Underwriters Laboratories Inc.) |
|  | KR (Korea Resister of Shipping) |
|  | NK (Nippon Kaiji Kyokal) |
|  | BV (Bureau Veritas) |
|  | LR (Lloyd' s Resister of Shipping) |
|  | CCC (China Compulsory Certification) |
|  | KERI (Korea Electrotechnology Researct Institute) |
|  | KEMA (KEMA Powertest, Inc.) |
|  | TÜV (TÜV Rheinland) |
|  | CESI (Centro Electrotecnico Sperimentale Italiano) |
|  | SEC (Saudi Electricity Co.) |
|  | TSE (Turkish Standards Institution) |
|  | PSE (Product Safely Electric) |