

HIGH VOLTAGE

DEAD-TANK GAS CIRCUIT BREAKER STANDARD RATING TABLE*

123kV

| Rating | 40kA | | 50kA | | 63kA | | 80kA |
|-----------------------------|------|------|------|------|------|------|------|
| Voltage (Max kV) | 123 | 123 | 123 | 123 | 123 | 123 | 123 |
| BIL (kV Crest) | 550 | 550 | 550 | 550 | 550 | 550 | 550 |
| Close/Latch Capability (kA) | 104 | 104 | 130 | 130 | 164 | 164 | 208 |
| 60Hz withstand (kV) | 260 | 260 | 260 | 260 | 260 | 260 | 260 |
| Continuous current (A) | 3000 | 3000 | 3150 | 3150 | 3150 | 3150 | 3150 |
| Interrupting current (kA) | 40 | 40 | 50 | 50 | 63 | 63 | 80 |
| Interrupting time (cycles) | 3 | 3 | 3 | 3 | 3 | 3 | 2 |

145kV

| Rating | 40kA | | 50kA | | 63kA | | 80kA |
|-----------------------------|------|------|------|------|------|------|------|
| Voltage (Max kV) | 145 | 145 | 145 | 145 | 145 | 145 | 145 |
| BIL (kV Crest) | 650 | 650 | 650 | 650 | 650 | 650 | 650 |
| Close/Latch Capability (kA) | 104 | 104 | 130 | 130 | 164 | 164 | 208 |
| 60Hz withstand (kV) | 310 | 310 | 310 | 310 | 310 | 310 | 310 |
| Continuous current (A) | 3150 | 3150 | 3150 | 3150 | 3000 | 3000 | 3000 |
| Interrupting current (kA) | 40 | 40 | 50 | 50 | 63 | 63 | 80 |
| Interrupting time (cycles) | 3 | 3 | 3 | 3 | 3 | 3 | 2 |

170kV

| Rating | 40kA | | 50kA | | 63kA | | 80kA |
|-----------------------------|------|------|------|------|------|------|------|
| Voltage (Max kV) | 170 | 170 | 170 | 170 | 170 | 170 | 170 |
| BIL (kV Crest) | 750 | 750 | 750 | 750 | 750 | 750 | 750 |
| Close/Latch Capability (kA) | 104 | 104 | 130 | 130 | 164 | 164 | 208 |
| 60Hz withstand (kV) | 365 | 365 | 365 | 365 | 365 | 365 | 365 |
| Continuous current (A) | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
| Interrupting current (kA) | 40 | 40 | 50 | 50 | 63 | 63 | 63 |
| Interrupting time (cycles) | 3 | 3 | 3 | 3 | 3 | 3 | 2 |

Notes:

- Synchronous switching option available for all IPO breakers up to 550kV
- Mixed gas (SF₆/CF₄) option available for select Gang Operated breakers up to 245kV-50kA
- Mixed gas (SF₆/CF₄) option available for select IPO breakers up to 362kV-50kA

■ Independent Pole Operated (IPO)

■ Gang Operated

IPO breakers are available with synchronous control option for capacitor bank switching, reactor bank switching and transformer switching applications.

*Select max voltages, BIL ratings, continuous currents, and interrupting times may not reflect the maximum values that are available. If your needs differ, please consult with your local MEPPi sales representative for additional details.

245kV

| Rating | 40kA | | 50kA | | 63kA | | 80kA |
|-----------------------------|------|------|--------|------|--------|------|------|
| Voltage (Max kV) | 245 | 245 | 245 | 245 | 245 | 245 | 245 |
| BIL (kV Crest) | 900 | 900 | 900 | 900 | 900 | 900 | 900 |
| Close/Latch Capability (kA) | 104 | 104 | 130 | 130 | 164 | 164 | 208 |
| 60Hz withstand (kV) | 425 | 425 | 425 | 425 | 425 | 425 | 425 |
| Continuous current (A) | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
| Interrupting current (kA) | 40 | 40 | 50 | 50 | 63 | 63 | 80 |
| Interrupting time (cycles) | 3 | 3 | 2 or 3 | 3 | 2 or 3 | 3 | 2 |

362kV

| Rating | 40kA | | 50kA | | 63kA | | 80kA |
|-----------------------------|------|------|------|------|------|------|------|
| Voltage (Max kV) | 362 | 362 | 362 | 362 | 362 | 362 | 362 |
| BIL (kV Crest) | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 |
| Close/Latch Capability (kA) | 104 | 104 | 130 | 130 | 164 | 164 | 208 |
| 60Hz withstand (kV) | 555 | 555 | 555 | 555 | 555 | 555 | 555 |
| Continuous current (A) | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
| Interrupting current (kA) | 40 | 40 | 50 | 50 | 63 | 63 | 80 |
| Interrupting time (cycles) | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

550kV

| Rating | 40kA | 50kA | 63kA |
|-----------------------------|------|------|------|
| Voltage (Max kV) | 550 | 550 | 550 |
| BIL (kV Crest) | 1800 | 1800 | 1800 |
| Close/Latch Capability (kA) | 104 | 130 | 164 |
| 60Hz withstand (kV) | 860 | 860 | 860 |
| Continuous current (A) | 3000 | 3000 | 3000 |
| Interrupting current (kA) | 40 | 50 | 63 |
| Interrupting time (cycles) | 2 | 2 | 2 |

800kV

| Rating | 40kA | 50kA | 63kA |
|-----------------------------|------|------|------|
| Voltage (Max kV) | 800 | 800 | 800 |
| BIL (kV Crest) | 2100 | 2100 | 2100 |
| Close/Latch Capability (kA) | 104 | 130 | 164 |
| 60Hz withstand (kV) | 960 | 960 | 960 |
| Continuous current (A) | 3000 | 3000 | 3000 |
| Interrupting current (kA) | 50 | 50 | 63 |
| Interrupting time (cycles) | 2 | 2 | 2 |

Notes:

- Synchronous switching option available for all IPO breakers up to 550kV
- Mixed gas (SF6/CF4) option available for select Gang Operated breakers up to 245kV-50kA
- Mixed gas (SF6/CF4) option available for select IPO breakers up to 362kV-50kA

 Independent Pole Operated (IPO)

 Gang Operated

IPO breakers are available with synchronous control option for capacitor bank switching, reactor bank switching and transformer switching applications.

*Select max voltages, BIL ratings, continuous currents, and interrupting times may not reflect the maximum values that are available. If your needs differ, please consult with your local MEPPi sales representative for additional details.

MITSUBISHI ELECTRIC POWER PRODUCTS, INC.

Corporate Headquarters
Thorn Hill Industrial Park
530 Keystone Drive
Warrendale, PA 15086

www.meppi.com | 724.772.2555
© 2021 Mitsubishi Electric Power Products, Inc.
All Rights Reserved. Printed in USA
Publication No. SA0020000002 | March 2021

