# Product Data Sheet
# Air Circuit Breakers
## HGL 16B, 16Q

### General Information & Ratings

| | |
|---|---|
| Product Code | HGL16 (B, Q Frame) |
| Rated Current [In max, 40°C] | 800/1,000/1,200/1,250/1,600A |
| Number of Poles | 3, 4P |
| Rated Frequency [Hz] | 50 / 60Hz |
| Operation Temperature | -4°F to +140°F (-20°C to +60°C) |
| Installation Type | Fixed Type |
| | Draw-Out Type |

### Characteristics

| | | | |
|---|---|---|---|
| Rated Current of Neutral Pole (N) ( _ % x In) | | | 100% |
| Rated Short-Circuit Current with instantaneous (Duty : O-15s-CO) | AC | 635V | 85kA |
| | | 508V | 100kA |
| | | 254V | 100kA |
| Rated Short-Circuit Current without instantaneous (Duty : O-15s-CO) | AC | 635V | 85kA |
| | | 508V | 85kA |
| | | 254V | 85kA |
| Rated Short Time Current | | | 85kA |
| Operating Time [ms] | Opening | | Less than 40ms |
| | Closing | | Less than 80ms |
| Mechanical Durability (60Hz) | | | 12,500 cycles |
| Electrical Durability (60Hz) | | | 2,800 cycles |
| Main Contact Material | | | Ag |
| Arcing Contact Material | | | Cu |
| Shunt Trip Coil Operating Time (fully open) | | | 35 ms |
| Closing Coil Operating Time (fully open) | | | 80 ms |

### Protection relay

| Model Name | | GPR-LN | GPR-LA | GPR-LAG | GPR-LP |
|---|---|---|---|---|---|
| Control Power | External Power | - | ● | ● | ● |
| | Self-Power | ● | ● | ● | ● |
| Protection Function | LTD (Long Time) | ● | ● | ● | ● |
| | STD (Short Time) | ● | ● | ● | ● |
| | INST (Instantaneous) | ● | ● | ● | ● |
| | Pre-Trip Alarm | - | ● | ● | ● |
| | Ground Fault Trip | ● | ● | - | ● |
| | Thermal Function | ● | ● | ● | ● |
| | Fail Safe | ● | ● | ● | ● |
| | Field Test | - | ● | ● | ● |
| Indication | LED indication | - | ● | ● | ● |
| | Fault LED | L | L,S/I,G,PTA | L,S/I,G,PTA, leakage | L,S/I,G,PTA |
| | Measurement LCD | - | ● | ● | ● |
| Output Contact | Individual Contact (4a) | - | ● | ● | ● |
| Operation | Communication | NFC | Modbus-RTU | Modbus-RTU | Modbus-RTU |
| | Event/Fault recording | ● | ● | ● | ● |

### Standards & Certifications

| | |
|---|---|
| Certification | UL1066 |

### Environment

| | |
|---|---|
| Ambient air temperature for operation | -20°C to 60°C (-4°F to 140°F) |
| Altitude above sea level | ≤ 2,000 m (6,562 ft) |
| Relative humidity toBe within | ≤ 85% |

### Dimension & Installation

| | | | |
|---|---|---|---|
| Fixed Type (3P) | Width (inch) | 16.71 | |
| | Height (inch) | 15.92 | |
| | Depth (inch) | 11.65 | |
| | Weight (lb) | 117 | |
| Draw-Out Type (3P) | Width (inch) | 15.71 | |
| | Height (inch) | 19.17 | |
| | Depth (inch) | 16.54 | |
| | Weight (lb) | 220 | |
| Phase-to-Phase Clearance (inch) | | Vertical type | 4.35 |
| Phase-to-Ground Clearance (inch) | | Vertical type | 4.35 |
| Main Contact Gap (mm) | | 30 | |
| Arcing Contact Gap (mm) | | 36 | |
| Country of Origin | | South Korea | |

HD HYUNDAI ELECTRIC