

# Vacuum Contactor

HYUNDAI Vacuum Contactors are designed and manufactured for frequent switchings, especially taking into account safety and quality assurance. They are suitable for switching and controlling squirrel cage and slipring motors, medium voltage loads and resistance furnaces, and capacitors and transformers.



## Qualified Standard & Approval

### Standard

- ▶ IEC 60470
- ▶ NEMA ICS3

### Approval

- ▶ ISO 18001, 14001, 9001
- ▶ KR, GL, LR, NK

| Type                                  |                                      | Fixed type              |       |                           |       |   |       | Draw-out type         |       |                           |       |   |       |
|---------------------------------------|--------------------------------------|-------------------------|-------|---------------------------|-------|---|-------|-----------------------|-------|---------------------------|-------|---|-------|
|                                       |                                      | F Without fuse holder   |       | A With single fuse holder |       | J With double fuse holder <sup>1)</sup> |       | B Without fuse holder |       | D With single fuse holder |       | H With double fuse holder <sup>1)</sup> |       |
| Operating method                      | Continuously energized               | 32C□                    | 34C□  | 62C□                      | 64C□  | 82C□                                    | 84C□  | 32C□                  | 34C□  | 62C□                      | 64C□  | 82C□                                    | 84C□  |
|                                       | Latched                              | 32L□                    | 34L□  | 62L□                      | 64L□  | 82L□                                    | 84L□  | 32L□                  | 34L□  | 62L□                      | 64L□  | 82L□                                    | 84L□  |
| Rated insulation voltage (kV)         |                                      | 3.6                     |       | 7.2                       |       | 12                                      |       | 3.6                   |       | 7.2                       |       | 12                                      |       |
| Rated operation voltage (kV)          |                                      | 3.3                     |       | 6.6                       |       | 11                                      |       | 3.3                   |       | 6.6                       |       | 11                                      |       |
| Rated frequency (Hz)                  |                                      | 50/60                   |       |                           |       |   |       |                       |       |                           |       |   |       |
| Rated current (A)                     |                                      | 200                     | 400   | 200                       | 400   | 200                                     | 400   | 200                   | 400   | 200                       | 400   | 200                                     | 400   |
| Withstand voltage                     | Impulse (kV)                         | 45                      |       | 60                        |       | 75                                      |       | 45                    |       | 60                        |       | 75                                      |       |
|                                       | Power frequency (1min, kV)           | 16                      |       | 20                        |       | 28                                      |       | 16                    |       | 20                        |       | 28                                      |       |
| Control dielectric strength (min, kV) |                                      | 2                       |       | 2                         |       | 2                                       |       | 2                     |       | 2                         |       | 2                                       |       |
| Utilization category                  |                                      | AC3                     |       |                           |       | AC4                                     |       | AC3                   |       |                           |       | AC4                                     |       |
| Breaking capacity                     |                                      | 4kA (O-3min-CO-3min-CO) |       |                           |       |   |       |                       |       |                           |       |   |       |
| Short-time current (kA)               | 1 sec                                | 6.3                     |       | 6.3                       |       | 6.3                                     |       | 6.3                   |       | 6.3                       |       | 6.3                                     |       |
|                                       | 30 sec                               | 3                       |       | 3                         |       | 3                                       |       | 3                     |       | 3                         |       | 3                                       |       |
| Mechanical life time                  | Continuously energized (1,000 times) | 1,000                   |       | 1,000                     |       | 1,000                                   |       | 1,000                 |       | 1,000                     |       | 1,000                                   |       |
|                                       | Latched (1,000 times)                | 250                     |       | 250                       |       | 250                                     |       | 250                   |       | 250                       |       | 250                                     |       |
| Electrical lifetime (1,000 times)     |                                      | 300                     |       |                           |       |   |       |                       |       |                           |       |   |       |
| Control voltage (V)                   |                                      | AC110/220, DC110/220    |       |                           |       |   |       |                       |       |                           |       |   |       |
| Auxiliary contact                     |                                      | 2a2b <sup>2)</sup>      |       |                           |       |   |       |                       |       |                           |       |   |       |
| Applicable load capacity              | Motor (kW)                           | 750                     | 1,500 | 1,500                     | 3,000 | 3,000                                   | 6,000 | 750                   | 1,500 | 1,500                     | 3,000 | 3,000                                   | 6,000 |
|                                       | Transformer (kVA)                    | 1,000                   | 2,000 | 2,000                     | 4,000 | 4,000                                   | 8,000 | 1,000                 | 2,000 | 2,000                     | 4,000 | 4,000                                   | 8,000 |
|                                       | Condensor (kVAR)                     | 750                     | 1,200 | 1,500                     | 2,000 | 3,000                                   | 4,000 | 750                   | 1,200 | 1,500                     | 2,000 | 3,000                                   | 4,000 |
| Weight without fuse(kg)               |                                      | F 21                    |       | F 22                      |       | F 61                                    |       | B 38 <sup>3)</sup>    |       | B 41 <sup>3)</sup>        |       | B 80 <sup>3)</sup>                      |       |
|                                       |                                      | A 30                    |       | A 32                      |       | A 68                                    |       | D 40 <sup>3)</sup>    |       | D 43 <sup>3)</sup>        |       | D 83 <sup>3)</sup>                      |       |
|                                       |                                      | J 33                    |       | J 35                      |       |   |       | H 43 <sup>3)</sup>    |       | H 46 <sup>3)</sup>        |       |   |       |

1) Double fuse holder is not applicable to 12kV.

2) In case of fixed type without fuse holder, 3a3b is standard.

3) The weight of draw-out type is based on F1 cradle.