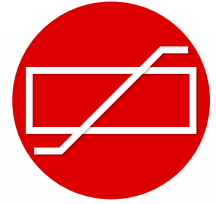


Medium Voltage (15kv)

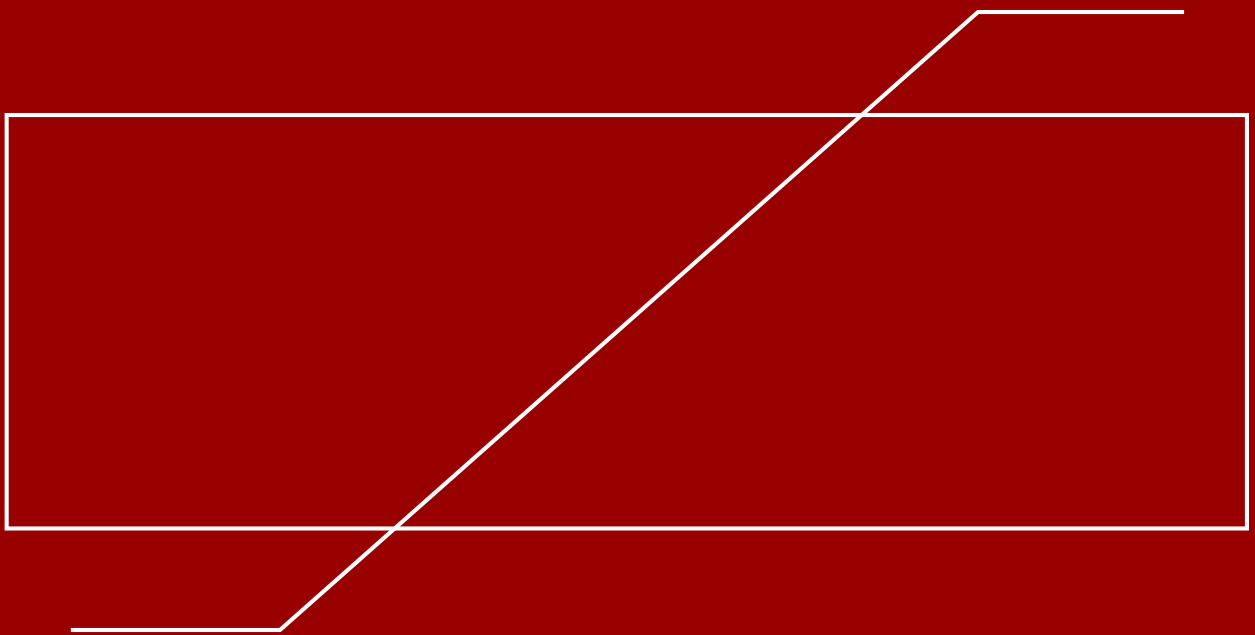


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50 YEARS OF EXCELLENCE

# Pioneering Cutting-Edge Solutions for Tomorrow



Powering Progress for Over Half a Century: We've been at the forefront of electrical polymer surge arresters manufacturing, continuously innovating for 50+ years, delivering solutions that energize the world.





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# Medium Voltage (15kv)

| INDOOR SPF |                                                      |                         |                         |
|------------|------------------------------------------------------|-------------------------|-------------------------|
| S No       | Description                                          | 15kV 10kA SL            | 15kV 10kA SM            |
|            | Model                                                | INDOOR                  | INDOOR                  |
|            | OUTDOOR/ INDOOR                                      | SPF                     | SPF                     |
|            | System earthing                                      | Unearthed               | Unearthed               |
| 1          | Highest system voltage kV rms                        | 12                      | 12                      |
| 2          | Nominal system voltage kVrms                         | 11                      | 11                      |
| 3          | Ur –Rated voltage kVrms                              | 15                      | 15                      |
| 4          | Uc –MCOV(kVrms)                                      | 12                      | 12                      |
| 5          | In –NDC (8/20µs) kA                                  | 10                      | 10                      |
| 6          | Arrester classification                              | Station Low duty        | Station Medium Duty     |
| 7          | Qrs (IEC 99-4 Ed.3) in coulomb                       | 1                       | 1.6                     |
| 8          | Wth (IEC 99-4 Ed.3) in kJ/kV                         | 4                       | 7                       |
| 9          | Qth (IEC 99-4 Ed.3) in coulomb                       |                         |                         |
| 10         | Max RDV kVp                                          |                         |                         |
|            | a) 5kA                                               | 42                      | 40                      |
|            | b) 10kA                                              | 45                      | 42                      |
|            | c) 20kA                                              | 50                      | 47                      |
| 11         | Max. Switch. Imp. RDV(kVp)                           |                         |                         |
|            | a) 500A                                              | 36                      |                         |
|            | b) 1000A                                             |                         | 33                      |
|            | c) 2000A                                             |                         |                         |
| 12         | Max. Steep Current impulse RDV(kVp) at NDC           | 50                      | 47                      |
| 13         | High current impulse withstand value (4/10 µs) kA    | 100                     | 100                     |
| 14         | TOV (kVp)                                            |                         |                         |
|            | i. 0.1                                               | 27                      | 27                      |
|            | ii. 1.0Sec                                           | 25                      | 25                      |
|            | iii. 10.0Sec                                         | 24                      | 24                      |
|            | iv. 100.0Sec                                         | 23                      | 23                      |
| 15         | Short circuit current kA                             | 25/31.5 (as applicable) | 25/31.5 (as applicable) |
| 16         | Insulation Withstand                                 |                         |                         |
|            | a) Lightning Impulse (kVp)                           | As per IEC 60099-4 2014 | As per IEC 60099-4 2014 |
|            | b) Power frequency kVrms                             | As per IEC 60099-4 2014 | As per IEC 60099-4 2014 |
|            | c) Switching Imp (Wet) (kVp)                         | NA                      | NA                      |
| 17         | Rated frequency (Hz)                                 | 48 to 62                | 48 to 62                |
| 18         | Leakage current                                      |                         |                         |
|            | a. IR at MCOV in µA                                  | Less than 400           | Less than 400           |
|            | b. IC at MCOV in mA                                  | About 1.2               | About 1.4               |
| 19         | Reference voltage in Volt at Reference current in mA | > 15kV at 2mA           | > 15kV at 3mA           |
| 20         | Partial discharge P.D                                | 10pC                    | 10pC                    |
| 21         | Creepage distance–mm (min) Phase to Phase            | NA                      | NA                      |
| 22         | Max. Cantilever strength of arrester Kgf             | NA                      | NA                      |

## DISTRIBUTION MEDIUM DUTY

| S No | Description                                            | 15kV 10kA DH                      |
|------|--------------------------------------------------------|-----------------------------------|
|      | Model                                                  | PBW                               |
|      | OUTDOOR/ INDOOR                                        |                                   |
|      | System earthing                                        |                                   |
| 1    | Highest system voltage kV rms                          | 12                                |
| 2    | Nominal system voltage kVrms                           | 11                                |
| 3    | Ur - Rated voltage kVrms                               | 15                                |
| 4    | Uc - MCOV (kVrms)                                      | 12                                |
| 5    | In - NDC (8/20 $\mu$ s) kA                             | 10                                |
| 6    | Arrester classification                                | Distriution High duty             |
| 7    | Qrs (IEC 99-4 Ed.3) in coulomb                         | 0.4                               |
| 8    | Wth (IEC 99-4 Ed.3) in kJ/kV                           |                                   |
| 9    | Qth (IEC 99-4 Ed.3) in coulomb                         | 1.1                               |
| 10   | Max RDV kVp                                            |                                   |
|      | a) 5kA                                                 | 45                                |
|      | b) 10kA                                                | 47                                |
|      | c) 20kA                                                | 52                                |
| 11   | Max. Switch. Imp. RDV (kVp)                            | NA                                |
|      | a) 500A                                                |                                   |
|      | b) 1000A                                               |                                   |
|      | c) 2000A                                               |                                   |
| 12   | Max. Steep Current impulse RDV (kVp) at NDC            | 52                                |
| 13   | High current impulse withstand value (4/10 $\mu$ s) kA | 100                               |
| 14   | TOV (kVp)                                              |                                   |
|      | i. 0.1                                                 | 27                                |
|      | ii. 1.0Sec                                             | 25                                |
|      | iii. 10.0Sec                                           | 24                                |
|      | iv. 100.0Sec                                           | 23                                |
| 15   | Short circuit current kA                               | 25/31.5 (as applicable)           |
| 16   | Insulation Withstand                                   |                                   |
|      | a) Lightning Impulse (kVp)                             | As per IEC 60099-4 2014           |
|      | b) Power frequency kVrms                               | As per IEC 60099-4 2014           |
|      | c) Switching Imp (Wet) (kVp)                           | NA                                |
| 17   | Rated frequency (Hz)                                   | 48 to 62                          |
| 18   | Leakage current                                        |                                   |
|      | a. IR at MCOV in $\mu$ A                               | Less than 400                     |
|      | b. IC at MCOV in mA                                    | About 1.2                         |
| 19   | Reference voltage in Volt at Reference current in mA   | > 15kV at 1mA                     |
| 20   | Partial discharge P.D                                  | 10pC                              |
| 21   | Creepage distance-mm (min) Phase to Phase              | 25mm/kV / 31mm/kV (as applicable) |
| 22   | Max. Cantilever strength of arrester Kgf               | NA                                |

## MEDIUM STATION PBW

| S No | Description                                            | 15kV 10kA SL                        | 15kV 10kA SM                        |
|------|--------------------------------------------------------|-------------------------------------|-------------------------------------|
|      | Model                                                  | PBW                                 | PBW                                 |
|      | OUTDOOR/ INDOOR                                        |                                     |                                     |
|      | System earthing                                        |                                     |                                     |
| 1    | Highest system voltage kV rms                          | 12                                  | 12                                  |
| 2    | Nominal system voltage kVrms                           | 11                                  | 11                                  |
| 3    | Ur –Rated voltage kVrms                                | 15                                  | 15                                  |
| 4    | Uc –MCOV(kVrms)                                        | 12                                  | 12                                  |
| 5    | In –NDC (8/20 $\mu$ s) kA                              | 10                                  | 10                                  |
| 6    | Arrester classification                                | Station Low duty                    | Station Medium Duty                 |
| 7    | Qrs(IEC 99-4 Ed.3) in coulomb                          | 1                                   | 1.6                                 |
| 8    | Wth (IEC 99-4 Ed.3) in kJ/kV                           | 4                                   | 7                                   |
| 9    | Qth (IEC 99-4 Ed.3) in coulomb                         |                                     |                                     |
| 10   | Max RDV kVp                                            |                                     |                                     |
|      | a) 5kA                                                 | 42                                  | 40                                  |
|      | b) 10kA                                                | 45                                  | 42                                  |
|      | c) 20kA                                                | 50                                  | 47                                  |
| 11   | Max. Switch. Imp. RDV(kVp)                             |                                     |                                     |
|      | a) 500A                                                | 36                                  |                                     |
|      | b) 1000A                                               |                                     | 33                                  |
|      | c) 2000A                                               |                                     |                                     |
| 12   | Max. Steep Current impulse RDV(kVp) at NDC             | 50                                  | 47                                  |
| 13   | High current impulse withstand value (4/10 $\mu$ s) kA | 100                                 | 100                                 |
| 14   | TOV (kVp)                                              |                                     |                                     |
|      | i. 0.1                                                 | 27                                  | 27                                  |
|      | ii. 1.0Sec                                             | 25                                  | 25                                  |
|      | iii. 10.0Sec                                           | 24                                  | 24                                  |
|      | iv. 100.0Sec                                           | 23                                  | 23                                  |
| 15   | Short circuit current kA                               | 25/31.5 (as applicable)             | 25/31.5 (as applicable)             |
| 16   | Insulation Withstand                                   |                                     |                                     |
|      | a) Lightning Impulse (kVp)                             | As per IEC 60099-4 2014             | As per IEC 60099-4 2014             |
|      | b) Power frequency kVrms                               | As per IEC 60099-4 2014             | As per IEC 60099-4 2014             |
|      | c) Switching Imp (Wet) (kVp)                           | NA                                  | NA                                  |
| 17   | Rated frequency (Hz)                                   | 48 to 62                            | 48 to 62                            |
| 18   | Leakage current                                        |                                     |                                     |
|      | a. IR at MCOV in $\mu$ A                               | Less than 400                       | Less than 400                       |
|      | b. IC at MCOV in mA                                    | About 1.2                           | About 1.4                           |
| 19   | Reference voltage in Volt at Reference current in mA   | > 15kV at 2mA                       | > 15kV at 3mA                       |
| 20   | Partial discharge P.D                                  | 10pC                                | 10pC                                |
| 21   | Creepage distance–mm (min) Phase to Phase              | 25mm/kV /31mm/kV<br>(as applicable) | 25mm/kV /31mm/kV<br>(as applicable) |
| 22   | Max. Cantilever strength of arrester Kg                | 150                                 | 150                                 |

## MEDIUM STATION PBC

| S No | Description                                            | 15kV 10kA SL                        | 15kV 10kA SM                        |
|------|--------------------------------------------------------|-------------------------------------|-------------------------------------|
|      | Model                                                  | PBC                                 | PBC                                 |
|      | OUTDOOR/ INDOOR                                        |                                     |                                     |
|      | System earthing                                        |                                     |                                     |
| 1    | Highest system voltage kV rms                          | 12                                  | 12                                  |
| 2    | Nominal system voltage kVrms                           | 11                                  | 11                                  |
| 3    | Ur –Rated voltage kVrms                                | 15                                  | 15                                  |
| 4    | Uc –MCOV(kVrms)                                        | 12                                  | 12                                  |
| 5    | In –NDC (8/20 $\mu$ s) kA                              | 10                                  | 10                                  |
| 6    | Arrester classification                                | Station Low duty                    | Station Medium Duty                 |
| 7    | Qrs(IEC 99-4 Ed.3) in coulomb                          | 1                                   | 1.6                                 |
| 8    | Wth (IEC 99-4 Ed.3) in kJ/kV                           | 4                                   | 7                                   |
| 9    | Qth (IEC 99-4 Ed.3) in coulomb                         |                                     |                                     |
| 10   | Max RDV kVp                                            |                                     |                                     |
|      | a) 5kA                                                 | 42                                  | 40                                  |
|      | b) 10kA                                                | 45                                  | 42                                  |
|      | c) 20kA                                                | 50                                  | 47                                  |
| 11   | Max. Switch. Imp. RDV(kVp)                             |                                     |                                     |
|      | a) 500A                                                | 36                                  |                                     |
|      | b) 1000A                                               |                                     | 33                                  |
|      | c) 2000A                                               |                                     |                                     |
| 12   | Max. Steep Current impulse RDV(kVp) at NDC             | 50                                  | 47                                  |
| 13   | High current impulse withstand value (4/10 $\mu$ s) kA | 100                                 | 100                                 |
| 14   | TOV (kVp)                                              |                                     |                                     |
|      | i. 0.1                                                 | 27                                  | 27                                  |
|      | ii. 1.0Sec                                             | 25                                  | 25                                  |
|      | iii. 10.0Sec                                           | 24                                  | 24                                  |
|      | iv. 100.0Sec                                           | 23                                  | 23                                  |
| 15   | Short circuit current kA                               | 40                                  | 40                                  |
| 16   | Insulation Withstand                                   |                                     |                                     |
|      | a) Lightning Impulse (kVp)                             | As per IEC 60099-4 2014             | As per IEC 60099-4 2014             |
|      | b) Power frequency kVrms                               | As per IEC 60099-4 2014             | As per IEC 60099-4 2014             |
|      | c) Switching Imp (Wet) (kVp)                           | NA                                  | NA                                  |
| 17   | Rated frequency (Hz)                                   | 48 to 62                            | 48 to 62                            |
| 18   | Leakage current                                        |                                     |                                     |
|      | a. IR at MCOV in $\mu$ A                               | Less than 400                       | Less than 400                       |
|      | b. IC at MCOV in mA                                    | About 1.2                           | About 1.4                           |
| 19   | Reference voltage in Volt at Reference current in mA   | > 15kV at 2mA                       | > 15kV at 3mA                       |
| 20   | Partial discharge P.D                                  | 10pC                                | 10pC                                |
| 21   | Creepage distance–mm (min) Phase to Phase              | 25mm/kV /31mm/kV<br>(as applicable) | 25mm/kV /31mm/kV<br>(as applicable) |
| 22   | Max. Cantilever strength of arrester Kg                | 150                                 | 150                                 |

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