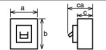
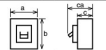
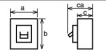
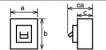
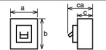
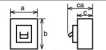
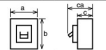
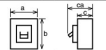


## ●NF-S (Standard class)

| Frame (A)                                            |  | 30                                                                                | 32 | 50 | 60                                                                                | 63 | 100 | 125                                                                                 | 125 | 125 | 125                                                                                 | 160 | 225                                                                                 | 250                                                                               |                                                                                     |  |                                                                                     |  |  |                                                                                   |  |         |                                                                                   |                                       |                                                                         |             |       |  |
|------------------------------------------------------|--|-----------------------------------------------------------------------------------|----|----|-----------------------------------------------------------------------------------|----|-----|-------------------------------------------------------------------------------------|-----|-----|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|--|-----------------------------------------------------------------------------------|--|---------|-----------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------|-------------|-------|--|
| Model                                                |  | NF32-SV                                                                           |    |    | NF63-SV                                                                           |    |     | NF125-SV                                                                            |     |     | NF125-SGV                                                                           |     | NF125-SEV                                                                           |                                                                                   | NF160-SGV                                                                           |  | NF250-SV                                                                            |  |  |                                                                                   |  |         |                                                                                   |                                       |                                                                         |             |       |  |
| Image                                                |  |  |    |    |  |    |     |  |     |     |  |     |  |                                                                                   |  |  |  |  |  |                                                                                   |  |         |                                                                                   |                                       |                                                                         |             |       |  |
| Rated current In (A)                                 |  | 3 4 (5) 6 10<br>15 16 20 25 (30)                                                  |    |    | 3 4 (5) 6 10 (15) 16<br>20 25 (30) 32 40 50                                       |    |     | (60)                                                                                |     |     | 63                                                                                  |     |                                                                                     | (15) 16 20 (30) 32 40<br>50 (60) 63 (75) 80 100                                   |                                                                                     |  | 125                                                                                 |  |  | 160 20 25 32 40 35-50<br>45-63 56-80 70-100 90-125                                |  | 125-160 |                                                                                   | (100) 125 150 160<br>175 200 225 (*2) |                                                                         | 250         |       |  |
| Rated ambient temperature 40°C (45°C for marine use) |  | 2 3                                                                               |    |    | 2 3                                                                               |    |     | 2 3 4                                                                               |     |     | 2 3 4                                                                               |     |                                                                                     | 2 3 4                                                                             |                                                                                     |  | 2 3 4                                                                               |  |  | 2 3 4                                                                             |  |         | 2 3 4                                                                             |                                       | 2 3 4                                                                   |             | 2 3 4 |  |
| Number of poles                                      |  | 2 3                                                                               |    |    | 2 3                                                                               |    |     | 2 3 4                                                                               |     |     | 2 3 4                                                                               |     |                                                                                     | 2 3 4                                                                             |                                                                                     |  | 2 3 4                                                                               |  |  | 2 3 4                                                                             |  |         | 2 3 4                                                                             |                                       | 2 3 4                                                                   |             | 2 3 4 |  |
| Rated insulation voltage Ui (V)                      |  | 600                                                                               |    |    | 600                                                                               |    |     | 600                                                                                 |     |     | 600                                                                                 |     |                                                                                     | 600                                                                               |                                                                                     |  | 600                                                                                 |  |  | 600                                                                               |  |         | 600                                                                               |                                       | 600                                                                     |             | 600   |  |
| Rated short-circuit breaking capacity (kA)           |  | 690V<br>500V<br>440V<br>415V<br>400V<br>380V<br>230V<br>200V<br>DC 250V           |    |    | 690V<br>500V<br>440V<br>415V<br>400V<br>380V<br>230V<br>200V<br>DC 250V           |    |     | 690V<br>500V<br>440V<br>415V<br>400V<br>380V<br>230V<br>200V<br>DC 250V             |     |     | 690V<br>500V<br>440V<br>415V<br>400V<br>380V<br>230V<br>200V<br>DC 250V             |     |                                                                                     | 690V<br>500V<br>440V<br>415V<br>400V<br>380V<br>230V<br>200V<br>DC 250V           |                                                                                     |  | 690V<br>500V<br>440V<br>415V<br>400V<br>380V<br>230V<br>200V<br>DC 250V             |  |  | 690V<br>500V<br>440V<br>415V<br>400V<br>380V<br>230V<br>200V<br>DC 250V           |  |         | 690V<br>500V<br>440V<br>415V<br>400V<br>380V<br>230V<br>200V<br>DC 250V           |                                       | 690V<br>500V<br>440V<br>415V<br>400V<br>380V<br>230V<br>200V<br>DC 250V |             |       |  |
| Rated impulse withstand voltage Uimp (kV)            |  | 8                                                                                 |    |    | 8                                                                                 |    |     | 8                                                                                   |     |     | 8                                                                                   |     |                                                                                     | 8                                                                                 |                                                                                     |  | 8                                                                                   |  |  | 8                                                                                 |  |         | 8                                                                                 |                                       | 8                                                                       |             | 8     |  |
| Current (*1)                                         |  | AC/DC compatible                                                                  |    |    | AC/DC compatible                                                                  |    |     | AC/DC compatible                                                                    |     |     | AC/DC compatible                                                                    |     |                                                                                     | AC/DC compatible                                                                  |                                                                                     |  | AC                                                                                  |  |  | AC/DC compatible                                                                  |  |         | AC/DC compatible (*1)                                                             |                                       | AC/DC compatible (*1)                                                   |             |       |  |
| Suitability for isolation                            |  | Compatible                                                                        |    |    | Compatible                                                                        |    |     | Compatible                                                                          |     |     | Compatible                                                                          |     |                                                                                     | Compatible                                                                        |                                                                                     |  | Compatible                                                                          |  |  | Compatible                                                                        |  |         | Compatible                                                                        |                                       | Compatible                                                              |             |       |  |
| Reverse connection                                   |  | Possible                                                                          |    |    | Possible                                                                          |    |     | Possible                                                                            |     |     | Possible                                                                            |     |                                                                                     | Possible                                                                          |                                                                                     |  | Possible                                                                            |  |  | Possible                                                                          |  |         | Possible                                                                          |                                       | Possible                                                                |             |       |  |
| Number of operating cycles                           |  | 10,000<br>With current (440VAC)                                                   |    |    | 10,000<br>With current (440VAC)                                                   |    |     | 10,000<br>With current (440VAC)                                                     |     |     | 10,000<br>With current (440VAC)                                                     |     |                                                                                     | 10,000<br>With current (440VAC)                                                   |                                                                                     |  | 10,000<br>With current (440VAC)                                                     |  |  | 10,000<br>With current (440VAC)                                                   |  |         | 10,000<br>With current (440VAC)                                                   |                                       | 10,000<br>With current (440VAC)                                         |             |       |  |
| Utilization category                                 |  | A                                                                                 |    |    | A                                                                                 |    |     | A                                                                                   |     |     | A                                                                                   |     |                                                                                     | A                                                                                 |                                                                                     |  | A                                                                                   |  |  | A                                                                                 |  |         | A                                                                                 |                                       | A                                                                       |             |       |  |
| Pollution degree                                     |  | 3                                                                                 |    |    | 3                                                                                 |    |     | 3                                                                                   |     |     | 3                                                                                   |     |                                                                                     | 3                                                                                 |                                                                                     |  | 3                                                                                   |  |  | 3                                                                                 |  |         | 3                                                                                 |                                       | 3                                                                       |             |       |  |
| EMC environment condition (environment A or B)       |  | N/A                                                                               |    |    | N/A                                                                               |    |     | N/A                                                                                 |     |     | N/A                                                                                 |     |                                                                                     | N/A                                                                               |                                                                                     |  | N/A                                                                                 |  |  | N/A                                                                               |  |         | N/A                                                                               |                                       | N/A                                                                     |             |       |  |
| Overall dimensions (mm)                              |  |  |    |    |  |    |     |    |     |     |    |     |                                                                                     |  |                                                                                     |  |    |  |  |  |  |         |  |                                       |                                                                         |             |       |  |
| Mass of front-face type (kg)                         |  | 0.45 0.65                                                                         |    |    | 0.45 0.65                                                                         |    |     | 0.5 0.7 0.9                                                                         |     |     | 0.55 0.75 1.0                                                                       |     |                                                                                     | 0.55 0.75 1.0                                                                     |                                                                                     |  | 0.7 1.0 1.3                                                                         |  |  | 0.7 1.0 1.3                                                                       |  |         | 1.4 1.6 2.0                                                                       |                                       |                                                                         | 1.4 1.6 2.0 |       |  |
| Front connection (F) Page                            |  | ●Screw terminal                                                                   |    |    | ●Screw terminal                                                                   |    |     | ●Screw terminal                                                                     |     |     | ●Screw terminal                                                                     |     |                                                                                     | ●Screw terminal                                                                   |                                                                                     |  | ●Screw terminal                                                                     |  |  | ●Screw terminal                                                                   |  |         | ●Screw terminal                                                                   |                                       | ●Screw terminal                                                         |             |       |  |
| Solderless (BOX) terminal (SL)                       |  | -                                                                                 |    |    | -                                                                                 |    |     | -                                                                                   |     |     | -                                                                                   |     |                                                                                     | -                                                                                 |                                                                                     |  | -                                                                                   |  |  | -                                                                                 |  |         | -                                                                                 |                                       | -                                                                       |             |       |  |
| Rear (R) Page                                        |  | 716                                                                               |    |    | 716                                                                               |    |     | 716                                                                                 |     |     | 716                                                                                 |     |                                                                                     | 716                                                                               |                                                                                     |  | 716                                                                                 |  |  | 716                                                                               |  |         | 716                                                                               |                                       | 716                                                                     |             |       |  |
| Plug-in (PI)                                         |  | -                                                                                 |    |    | -                                                                                 |    |     | -                                                                                   |     |     | -                                                                                   |     |                                                                                     | -                                                                                 |                                                                                     |  | -                                                                                   |  |  | -                                                                                 |  |         | -                                                                                 |                                       | -                                                                       |             |       |  |
| Alarm switch (AL)                                    |  | ●(*4)                                                                             |    |    | ●(*4)                                                                             |    |     | ●(*4)                                                                               |     |     | ●(*4)                                                                               |     |                                                                                     | ●(*4)                                                                             |                                                                                     |  | ●(*4)                                                                               |  |  | ●(*4)                                                                             |  |         | ●(*4)                                                                             |                                       | ●(*4)                                                                   |             |       |  |
| Auxiliary switch (AX)                                |  | ●(*4)                                                                             |    |    | ●(*4)                                                                             |    |     | ●(*4)                                                                               |     |     | ●(*4)                                                                               |     |                                                                                     | ●(*4)                                                                             |                                                                                     |  | ●(*4)                                                                               |  |  | ●(*4)                                                                             |  |         | ●(*4)                                                                             |                                       | ●(*4)                                                                   |             |       |  |
| Shunt trip (SHT)                                     |  | ●(*4)                                                                             |    |    | ●(*4)                                                                             |    |     | ●(*4)                                                                               |     |     | ●(*4)                                                                               |     |                                                                                     | ●(*4)                                                                             |                                                                                     |  | ●(*4)                                                                               |  |  | ●(*4)                                                                             |  |         | ●(*4)                                                                             |                                       | ●(*4)                                                                   |             |       |  |
| Undervoltage trip (UVT)                              |  | ●(*4)                                                                             |    |    | ●(*4)                                                                             |    |     | ●(*4)                                                                               |     |     | ●(*4)                                                                               |     |                                                                                     | ●(*4)                                                                             |                                                                                     |  | ●(*4)                                                                               |  |  | ●(*4)                                                                             |  |         | ●(*4)                                                                             |                                       | ●(*4)                                                                   |             |       |  |
| With lead-wire terminal block (SLT)                  |  | 737                                                                               |    |    | 737                                                                               |    |     | 737                                                                                 |     |     | 737                                                                                 |     |                                                                                     | 737                                                                               |                                                                                     |  | 737                                                                                 |  |  | 737                                                                               |  |         | 737                                                                               |                                       | 737                                                                     |             |       |  |
| Pre-alarm (PAL)                                      |  | 739                                                                               |    |    | 739                                                                               |    |     | 739                                                                                 |     |     | 739                                                                                 |     |                                                                                     | 739                                                                               |                                                                                     |  | 739                                                                                 |  |  | 739                                                                               |  |         | 739                                                                               |                                       | 739                                                                     |             |       |  |
| Enclosure (S)                                        |  | 753                                                                               |    |    | 753                                                                               |    |     | 753                                                                                 |     |     | 753                                                                                 |     |                                                                                     | 753                                                                               |                                                                                     |  | 753                                                                                 |  |  | 753                                                                               |  |         | 753                                                                               |                                       | 753                                                                     |             |       |  |
| Dustproof (D)                                        |  | -                                                                                 |    |    | -                                                                                 |    |     | -                                                                                   |     |     | -                                                                                   |     |                                                                                     | -                                                                                 |                                                                                     |  | -                                                                                   |  |  | -                                                                                 |  |         | -                                                                                 |                                       | -                                                                       |             |       |  |
| Waterproof (W)                                       |  | -                                                                                 |    |    | -                                                                                 |    |     | -                                                                                   |     |     | -                                                                                   |     |                                                                                     | -                                                                                 |                                                                                     |  | -                                                                                   |  |  | -                                                                                 |  |         | -                                                                                 |                                       | -                                                                       |             |       |  |
| Electrical operation device (NFM)                    |  | 756                                                                               |    |    | 756                                                                               |    |     | 756                                                                                 |     |     | 756                                                                                 |     |                                                                                     | 756                                                                               |                                                                                     |  | 756                                                                                 |  |  | 756                                                                               |  |         | 756                                                                               |                                       | 756                                                                     |             |       |  |
| Mechanical interlock (MI) (*)                        |  | 752                                                                               |    |    | 752                                                                               |    |     | 752                                                                                 |     |     | 752                                                                                 |     |                                                                                     | 752                                                                               |                                                                                     |  | 752                                                                                 |  |  | 752                                                                               |  |         | 752                                                                               |                                       | 752                                                                     |             |       |  |
| Panel mounting Breaker mounting                      |  | -                                                                                 |    |    | -                                                                                 |    |     | -                                                                                   |     |     | -                                                                                   |     |                                                                                     | -                                                                                 |                                                                                     |  | -                                                                                   |  |  | -                                                                                 |  |         | -                                                                                 |                                       | -                                                                       |             |       |  |
| LC                                                   |  | -                                                                                 |    |    | -                                                                                 |    |     | -                                                                                   |     |     | -                                                                                   |     |                                                                                     | -                                                                                 |                                                                                     |  | -                                                                                   |  |  | -                                                                                 |  |         | -                                                                                 |                                       | -                                                                       |             |       |  |
| Handle lock device                                   |  | 750                                                                               |    |    | 750                                                                               |    |     | 750                                                                                 |     |     | 750                                                                                 |     |                                                                                     | 750                                                                               |                                                                                     |  | 750                                                                                 |  |  | 750                                                                               |  |         | 750                                                                               |                                       | 750                                                                     |             |       |  |
| HL                                                   |  | -                                                                                 |    |    | -                                                                                 |    |     | -                                                                                   |     |     | -                                                                                   |     |                                                                                     | -                                                                                 |                                                                                     |  | -                                                                                   |  |  | -                                                                                 |  |         | -                                                                                 |                                       | -                                                                       |             |       |  |
| HL-S                                                 |  | -                                                                                 |    |    | -                                                                                 |    |     | -                                                                                   |     |     | -                                                                                   |     |                                                                                     | -                                                                                 |                                                                                     |  | -                                                                                   |  |  | -                                                                                 |  |         | -                                                                                 |                                       | -                                                                       |             |       |  |
| External operating handle (F)                        |  | 740                                                                               |    |    | 740                                                                               |    |     | 740                                                                                 |     |     | 740                                                                                 |     |                                                                                     | 740                                                                               |                                                                                     |  | 740                                                                                 |  |  | 740                                                                               |  |         | 740                                                                               |                                       | 740                                                                     |             |       |  |
| Terminal cover (TCL, TCS, TTC, BTC, PTC)             |  | 744                                                                               |    |    | 744                                                                               |    |     | 744                                                                                 |     |     | 744                                                                                 |     |                                                                                     | 744                                                                               |                                                                                     |  | 744                                                                                 |  |  | 744                                                                               |  |         | 744                                                                               |                                       | 744                                                                     |             |       |  |
| Rear stud (B-ST)                                     |  | 718                                                                               |    |    | 718                                                                               |    |     | 718                                                                                 |     |     | 718                                                                                 |     |                                                                                     | 718                                                                               |                                                                                     |  | 718                                                                                 |  |  | 718                                                                               |  |         | 718                                                                               |                                       | 718                                                                     |             |       |  |
| Plug-in (PM)                                         |  | -                                                                                 |    |    | -                                                                                 |    |     | -                                                                                   |     |     | -                                                                                   |     |                                                                                     | -                                                                                 |                                                                                     |  | -                                                                                   |  |  | -                                                                                 |  |         | -                                                                                 |                                       | -                                                                       |             |       |  |
| IEC 35mm rail mounting adapters                      |  | 759                                                                               |    |    | 759                                                                               |    |     | 759                                                                                 |     |     | 759                                                                                 |     |                                                                                     | 759                                                                               |                                                                                     |  | 759                                                                                 |  |  | 759                                                                               |  |         | 759                                                                               |                                       | 759                                                                     |             |       |  |
| CE marking                                           |  | Self-declaration                                                                  |    |    | Self-declaration                                                                  |    |     | Self-declaration                                                                    |     |     | Self-declaration                                                                    |     |                                                                                     | Self-declaration                                                                  |                                                                                     |  | Self-declaration                                                                    |  |  | Self-declaration                                                                  |  |         | TUV approval                                                                      |                                       | Self-declaration                                                        |             |       |  |
| CCC recognition                                      |  | Recognition in process                                                            |    |    | Recognition in process                                                            |    |     | Recognition in process                                                              |     |     | Recognition in process                                                              |     |                                                                                     | Recognition in process                                                            |                                                                                     |  | Recognition in process                                                              |  |  | Recognition in process                                                            |  |         | Recognition in process                                                            |                                       | Recognition in process                                                  |             |       |  |
| Marine use approval (NK, LR, ABS, GL)                |  | -                                                                                 |    |    | -                                                                                 |    |     | -                                                                                   |     |     | -                                                                                   |     |                                                                                     | -                                                                                 |                                                                                     |  | -                                                                                   |  |  | -                                                                                 |  |         | -                                                                                 |                                       | -                                                                       |             |       |  |
| Automatic tripping device                            |  | Thermal-magnetic                                                                  |    |    | Thermal-magnetic                                                                  |    |     | Thermal-magnetic                                                                    |     |     | Thermal-magnetic                                                                    |     |                                                                                     | Thermal-magnetic                                                                  |                                                                                     |  | Thermal-magnetic                                                                    |  |  | Thermal-magnetic                                                                  |  |         | Thermal-magnetic                                                                  |                                       | Thermal-magnetic                                                        |             |       |  |
| Trip button                                          |  | Equipped                                                                          |    |    | Equipped                                                                          |    |     | Equipped                                                                            |     |     | Equipped                                                                            |     |                                                                                     | Equipped                                                                          |                                                                                     |  | Equipped                                                                            |  |  | Equipped                                                                          |  |         | Equipped                                                                          |                                       | Equipped                                                                |             |       |  |
| Page of Characteristics and dimensions               |  | 762                                                                               |    |    | 762                                                                               |    |     | 762                                                                                 |     |     | 764                                                                                 |     |                                                                                     | 772                                                                               |                                                                                     |  | 774                                                                                 |  |  | 772                                                                               |  |         | 768                                                                               |                                       | 768                                                                     |             |       |  |