

Circuit Breakers for control panel(FAU/FHU series)

| Frame(A) | | Molded Case Circuit Breakers | | | | Earth Leakage Circuit Breakers(Harmonic Surge Ready) | | | | | |
|---|--|------------------------------|--------------------|--------------------------|------------------|--|-------------------------|-------------------------|-------------------------|-----------------------|---|
| | | 30 | 50 | 50 | 100 | 30 | 50 | 50 | 100 | | |
| Model | | NF30-FAU | NF50-FAU | NF50-FHU | NF100-FHU | NV30-FAU | NV50-FAU | NV50-FHU | NV100-FHU | | |
| Image | | | | | | | | | | | |
| Phase line(*1) | | - | - | - | - | 1φ2W | 3φ3W 1φ2W | 1φ2W | 3φ3W 1φ2W 1φ3W | 3φ3W 1φ2W 1φ3W | |
| Number of poles | | 2 3 | 2 3 | 2 3 | 3 | 2 3 | 2 3 | 2 3 | 3 | | |
| Rated current In(A) Rated ambient temperature 40°C | | 5 10 15 20 | 5 10 15 20 | 3 5 10 15 20 30 40 50 | 60 75 100 | 5 10 15 20 | 5 10 15 20 | 5 10 15 20 30 40 50 | 60 75 100 | | |
| For motor protection Rated current(*13) | | 30 | 30 40 50 | 2.4 6.3 8 16 | - | 30 | 30 40 50 | - | 60 75 100 | | |
| High-speed type | Rated current sensitivity IΔn mA | - | - | - | - | 30 | 30 | 30 50 100 | 30 50 100 | | |
| | Pickup current, UL 1053 | - | - | - | - | 75% of IΔn | 75% of IΔn | 75% of IΔn | 75% of IΔn | | |
| | Max. operating time(s) at 5IΔn(*2) | - | - | - | - | 0.04 | 0.04 | 0.04 | 0.04 | | |
| Earth leakage indication system | | - | - | - | - | Mechanical type(button) | Mechanical type(button) | Mechanical type(button) | Mechanical type(button) | | |
| Rated short-circuit Breaking Capacities(kA) | UL1077 CSA C22.2 No.235 | Rated voltage | AC(V) | 240 | 240 | 240 | 240 | 240 | 240 | 240 | |
| | | DC(V) | 60 | 60 | - | - | - | - | - | - | |
| | | AC | 240V | 2.5/1(*3) | 2.5/1(*3) | 5 | 5 | 2.5/1(*3) | 2.5/1(*3) | 5 | 5 |
| | | DC | 60V | 1.5 | 1.5 | - | - | - | - | - | - |
| | IEC 60947-2 EN 60947-2 (Icu/Ics) | Rated insulation voltage(V) | 250 | 250 | 500 | 500 | AC230V(rated voltage) | AC230V(rated voltage) | AC240V(rated voltage) | AC240V(rated voltage) | |
| | | AC | 400V | - | - | 1.5/1 | - | - | - | - | |
| | | 230V | 2.5/1(*4) | 2.5/1(*4) | 5/2 | 5/2 | - | - | 5/2 | 5/2 | |
| | | DC | 60V | 1.5/1 | 1.5/1 | - | - | - | - | - | |
| | GB 14048.2 (Icu/Ics) | Rated insulation voltage(V) | 250 | 250 | 500 | 500 | AC230V(rated voltage) | AC230V(rated voltage) | AC240V(rated voltage) | AC240V(rated voltage) | |
| | | AC | 415V | - | - | 1.5/1 | - | - | - | - | |
| | | 240V | - | - | 5/2 | 5/2 | - | - | 5/2 | 5/2 | |
| | | 230V | 2.5/1(*4) | 2.5/1(*4) | - | - | 2.5/1(*4) | 2.5/1(*4) | - | - | |
| | Jis C 8201-2-1 Ann.1 Ann.2 (Icu/Ics) | Rated insulation voltage(V) | 250 | 250 | 500 | 500 | - | - | - | - | |
| | | AC | 415V | - | - | 1.5/1 | - | - | - | - | |
| | | DC | 65V | 1.5/1 | 1.5/1 | - | - | - | - | - | |
| Jis C 8201-2-2 Ann.1 Ann.2 (Icu/Ics) | Rated voltage AC(V) | - | - | - | - | 100-200 | 100-200 | 100-200 | 100-200 | | |
| | AC | 200V | - | - | - | 2.5/1(*4) | 2.5/1(*4) | 5/2 | 5/2 | | |
| | 100V | - | - | - | - | 2.5/1(*4) | 2.5/1(*4) | 5/2 | 5/2 | | |
| Rated impulse withstand voltage Uimp(kV) | | 2.5 | 2.5 | 4 | 4 | 2.5 | 2.5 | 4 | 4 | | |
| Current | | AC/DC compatible | AC/DC compatible | AC | AC | AC | AC | AC | AC | | |
| Suitability for isolation | | - | - | - | - | - | - | - | - | | |
| Reverse connection | | - | - | - | - | - | - | - | - | | |
| Overall dimensions(mm) | | a | 40 60 | 40 60 | 50 75 | 75 | 40 60 | 40 60 | 50 75 | 75 | |
| | | b | 72 | 72 | 96 | 97.5 | 72 | 72 | 96 | 97.5 | |
| | | c | 57 | 57 | 60 | 60 | 57 | 57 | 60 | 60 | |
| | | ca | 73.5 | 73.5 | 76 | 76 | 73.5 | 73.5 | 76 | 76 | |
| | | Mass kg | 0.14 0.12 | 0.16 0.22 | 0.25 0.37 | 0.51 | 0.16 0.22 | 0.18 0.24 | 0.3 0.43 | 0.57 | |
| Installation | IEC 35mm rail | ● | ● | ● | ● | ● | ● | ● | ● | | |
| Connection | Front connection | Screw terminal | Screw terminal | Screw terminal | Screw terminal | Screw terminal | Screw terminal | Screw terminal | Screw terminal | | |
| Optional accessories | Alarm switch(AL) | ● | ● | ●(*5) | ●(*6) | ● | ● | ●(*5) | ●(*6) | | |
| | Auxiliary switch(AX) | ● | ● | ●(*5) | ●(*6) | ● | ● | ●(*5) | ●(*6) | | |
| | Shunt trip(SHT) | ● | ● | ●(*5) | ●(*6) | - | - | - | - | | |
| | Test lead wire(TBL) | - | - | - | - | - | - | - | - | | |
| | With lead-wire terminal block(SLT) | ● | ● | ● | ● | ● | ● | ● | ● | | |
| External accessories | Handle lock device | (LC) | ●(*7) | ●(*7) | ●(*8) | ●(*8) | ●(*7) | ●(*7) | ●(*8) | ●(*8) | |
| | | (HL) | ●(*7) | ●(*7) | ●(*8) | ●(*8) | ●(*7) | ●(*7) | ●(*8) | ●(*8) | |
| | Small terminal cover | (TC-S) | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Large terminal cover | (TC-L) | - | - | ●(*8) | ●(*8) | - | - | ●(*8) | ●(*8) | |
| Front plate connection terminal cover | (RTC) | ● | ● | - | - | ● | ● | - | - | | |
| CE marking | TUV approval | TUV approval | TUV approval | TUV approval | TUV approval | TUV approval | TUV approval | TUV approval | TUV approval | | |
| CCC recognition | Recognized | Recognized | Recognized | Recognized | Recognized | Recognized | Recognized | Recognized | Recognized | | |
| Automatic tripping device | Thermal-magnetic | Thermal-magnetic | Hydraulic magnetic | Hydraulic magnetic | Thermal-magnetic | Thermal-magnetic | Hydraulic magnetic | Hydraulic magnetic | Hydraulic magnetic | | |
| Trip button | -(*9) | -(*9) | -(*9) | -(*9) | - | - | - | - | - | | |

Notes: *1 If using a 3-pole earth leakage circuit breaker as a 1-pole 2-phase device, connect the left and right poles and not the central pole. When wiring to single-phase 3-wire, connect the neutral line to the central pole.
 *2 0.1 for UL1053
 *3 Rated short-circuit breaking capacity of product which is 5A of rated current is 1.5kA.
 *4 Rated short-circuit breaking capacity of product which is 5A of rated current is 1.5/1kA.
 *5 Standard type is SLT equipped.
 *6 Lead wires come from load side of the breaker as standard. Lead wires come from lateral side of the breaker is also available as an option.

*7 UL(cURus) is certified. CCC·TUV is not certified.
 *8 UL(cURus)·CCC·TUV is not certified.
 *9 only alarm switch(excluding NF30-FAU,NF50-FAU SHT+AL)
 *10 Rated current sensitivity 30mA/50mA is available for motor protection rated current

Remarks: (1) breaking capacity of indicate to breaker.

| (2) | Rated voltage | Applicable circuit voltage | Applicable voltage range |
|-----|---------------|----------------------------|--------------------------|
| | 100-200V | 100·110·200·220V | 80~242V |
| | 240V(UL) | 240V | 132~264V |
| | 240V(GB) | 240V | 204~264V |

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