

III. Parameters of W-N3 stage transfer switch

Table 3

| | | | | | | | | | | | | | | | | | |
|------------------------------|--|---|-------|-----|----------|-----|-----|-----------|-----|-----|-----------|----|------|---|----|----|--|
| Type | | W-N3 | | | | | | | | | | | | | | | |
| Isolation voltage | | AC800V | | | | | | | | | | | | | | | |
| Impulse withstanding voltage | | 8kV | | | | | | | | | | | | | | | |
| Rated voltage | | AC400V | | | | | | | | | | | | | | | |
| Rated current | | 20A~63A | | | 80A~125A | | | 160A~250A | | | 350A~500A | | | 630A~800A | | | |
| Number of throws | | dual throw | | | | | | | | | | | | | | | |
| Wiring mode | | board front | | | | | | | | | | | | Board back (board front as special offer) | | | |
| Number of poles | | 2P | 3P | 4P | 2P | 3P | 4P | 2P | 3P | 4P | 2P | 3P | 4P | 2P | 3P | 4P | |
| Weight (Kg) | | 5.5 | 5.8 | 6.4 | 6 | 6.5 | 7.2 | 6 | 7.1 | 7.7 | 11 | 15 | 17.8 | 25 | 38 | 43 | |
| Operating current (A) | DC110V/125V | 6 | 6 | 8 | 6 | 6 | 8 | 6 | 8 | 10 | 10 | 10 | 14 | 12 | 12 | 12 | |
| | AC100V/110V | 6 | 6 | 8 | 6 | 6 | 8 | 6 | 8 | 10 | 10 | 10 | 14 | 12 | 12 | 12 | |
| | AC200V/220V/230V | 3 | 3 | 4 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | |
| Tripping current (A) | DC110V/125V | 2 | | | 3 | | | 4 | | | | | | | | | |
| | AC100V/110V | 2 | | | 3 | | | 4 | | | | | | | | | |
| | AC200V/220V/230V | 1 | | | 1.4 | | | 2 | | | | | | | | | |
| Performance | Short-time withstanding current | 10kA | | | 15kA | | | 20kA | | | 25kA | | | | | | |
| | Rated limited short-circuit | 100kA | | | 120kA | | | | | | | | | | | | |
| | Rated limited short-circuit | 50kA | | | 65kA | | | | | | | | | | | | |
| | Connection/disconnection capacity | AC-33B (10Ie connected. 10Ie disconnected) cos φ=0.35 (When Ie≤100A, cos φ=0.45) DC-33B(4Ie connected. 4Ie disconnected) L/R=2.5ms | | | | | | | | | | | | | | | |
| | Transfer time | Power A→ Power B | ≤0.2s | | | | | | | | | | | | | | |
| | | Power B→ Power A | | | | | | | | | | | | | | | |
| | Lifespan | Electrical lifespan 6,000 cycles, mechanical lifespan 20,000 cycles | | | | | | | | | | | | Electrical lifespan 3,000 cycles, mechanical lifespan 10,000 cycles | | | |
| Operating cycle frequency | 120 cycles/hour | | | | | | | | | | | | | | | | |
| Auxiliary switch | 2 normally open and 2 normally closed on power sides A and B; contact capacity: AC 110V 5A/ AC 220V 3A, DC 200V 0.2A | | | | | | | | | | | | | | | | |
| Accessory | Operating handle | | | | | | | | | | | | | | | | |

Note: 1) Under DC the loop operation is basically the same as that under AC conditions. Please follow the operation instructions for AC.
2) The weight is for reference only.

Table 3 (continued)

| | | | | | | | | | | | | | | | |
|---|----|----|----|-------|------|----|---------------|----------------|-----|-------|-------------|-------|----|-------------|----|
| W-N3 | | | | | | | | | | | | | | | |
| AC800V | | | | | | | | | | | | | | | |
| 8kV | | | | | | | | | | | | | | | |
| AC400V | | | | | | | | | | | | | | | |
| 1000A ~ 1250A | | | | 1600A | | | 1600A ~ 2500A | | | 3150A | | 4000A | | 5000A | |
| dual throw | | | | | | | | | | | | | | | |
| board back (board front as special offer) | | | | | | | | | | | | | | | |
| 2P | 3P | 4P | 2P | 3P | 4P | 2P | 3P | 4P | 2P | 3P | 4P | 3P | 4P | 3P | 4P |
| 37 | 46 | 55 | 36 | 54 | 68.6 | 95 | 115 | 135 | 110 | 124 | 140 | 207 | | 265 | |
| 12 | 12 | 16 | 14 | 16 | 18 | 16 | 20 | 24 | 20 | 24 | 28 | 32 | 36 | 36 | 38 |
| 12 | 12 | 16 | 14 | 16 | 18 | 16 | 20 | 24 | 20 | 24 | 28 | 32 | 36 | 36 | 38 |
| 6 | 6 | 8 | 7 | 8 | 9 | 8 | 10 | 12 | 10 | 12 | 16 | 16 | 18 | 18 | 20 |
| 4 | | | | | | 6 | | | | | | | | | |
| 4 | | | | | | 6 | | | | | | | | | |
| 2 | | | | | | 2 | | | | | | | | | |
| 32kA | | | | 40kA | | | 50kA | | | 50kA | | 50kA | | | |
| 120kA | | | | | | | | | | | | | | | |
| 65kA | | | | | | | | | | | | | | | |
| AC-33B (10Ie connected. 10Ie disconnected) cos φ=0.35 DC-33B(4Ie connected. 4Ie disconnected) L/R=2.5ms | | | | | | | | AC-33B 20kA | | | AC-33B 30kA | | | AC-33B 35kA | |
| ≤0.2s | | | | | | | | | | | | | | | |
| Electrical lifespan 3,000 cycles, mechanical lifespan 10,000 cycles | | | | | | | | | | | | | | | |
| 120 cycles/hour | | | | | | | | 30 cycles/hour | | | | | | | |
| 2 normally open and 2 normally closed on power sides A and B; contact capacity: AC 110V 5A/ AC 220V 3A, DC 200V 0.2A | | | | | | | | | | | | | | | |
| Operating handle | | | | | | | | | | | | | | | |

3) The short-time withstanding current, operating current and tripping current figures are for reference only.
4) For products with current rating of 4000A and 5000A4P, the N-pole contact capacity is 2000A and 2500A respectively.