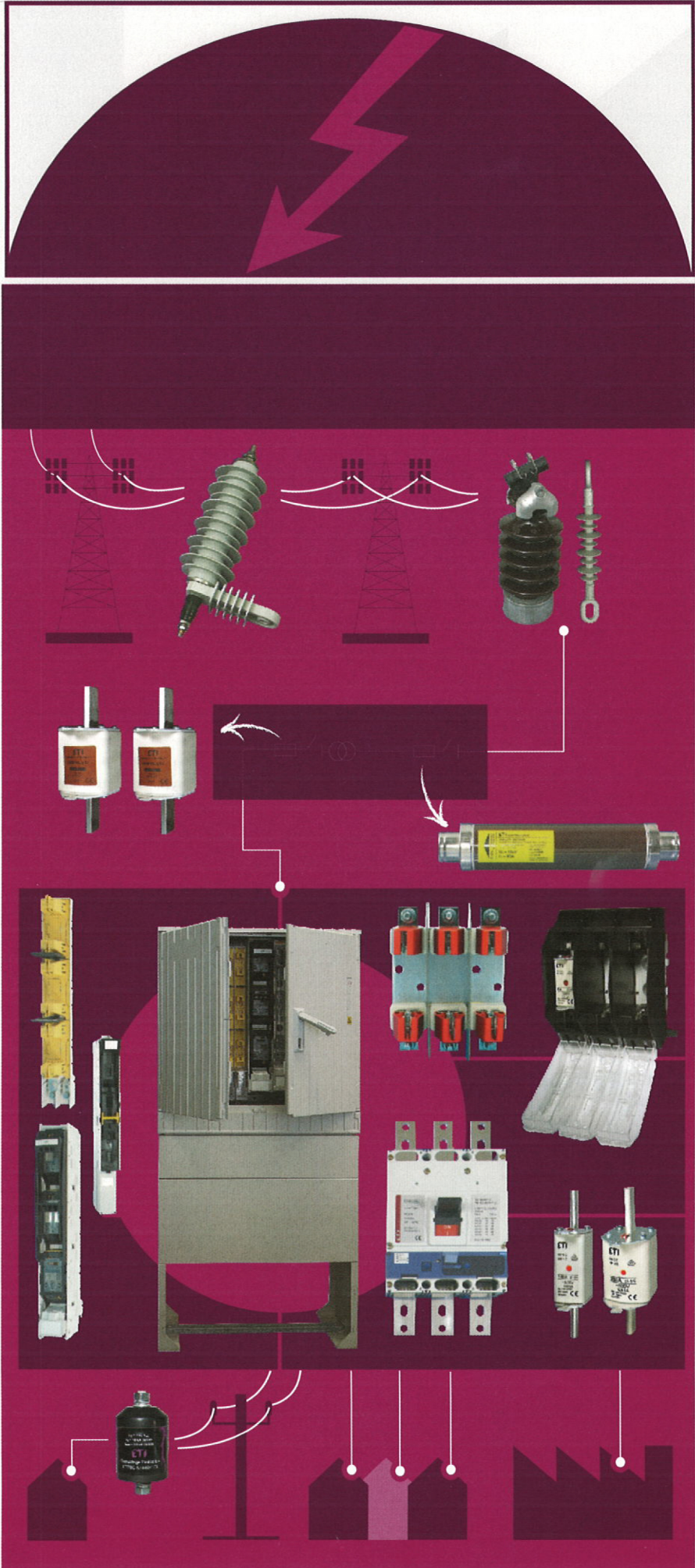


ELECTRIC POWER DISTRIBUTION

ETI provides high-quality solutions for the protection of low and high-voltage electrical installations in the field of electric power distribution. We supply a wide range of high-voltage fuse-links of the type VV, low voltage power circuit breakers ETIBREAK, distribution cabinets KVS, medium voltage surge arresters ETISURGE and ceramic as well as polymeric insulators. The products are internationally certified and carry several quality marks.




ETIBREAK EB2 1600

| Type | I_n [A] | Code No. | Poles | I_{cu}/I_{cs} 400/415V [kA] | Adjustment thermal/magnetic | Weight [kg] | Packaging [pcs] |
|-------------------------------|--------------|-----------|-------|-------------------------------------|--------------------------------|----------------|--------------------|
| EB2 1600/3LE-FC 1600A 3p | 1600 | 004672250 | 3 | 50/38 | 0,4-1 / adjust. | 27 | 1 |
| EB2 1600/4LE-FC 1600A 4p | 1600 | 004672251 | 4 | | | 35 | |
| EB2 1600/4LE-FC 1600A 4p APGN | 1600 | 004672252 | 4 | | | 35 | |
| EB2 1600/3LE-RC 1600A 3p | 1600 | 004672270 | 3 | | | 27 | |
| EB2 1600/4LE-RC 1600A 4p | 1600 | 004672271 | 4 | | | 35 | |
| EB2 1600/4LE-RC 1600A 4p APGN | 1600 | 004672272 | 4 | | | 35 | |
| EB2 1600/3E-RC 1600A 3p | 1600 | 004672280 | 3 | 100/75 | 0,4-1 / adjust. | 27 | 1 |
| EB2 1600/4E-RC 1600A 4p | 1600 | 004672281 | 4 | | | 35 | |
| EB2 1600/4E-RC 1600A 4p APGN | 1600 | 004672282 | 4 | | | 35 | |
| EB2 1600/3E-FC 1600A 3p | 1600 | 004672260 | 3 | | | 27 | |
| EB2 1600/3E-FC 1600A 4p | 1600 | 004672261 | 4 | | | 35 | |
| EB2 1600/4E-FC 1600A 4p APGN | 1600 | 004672262 | 4 | | | 35 | |

FC - Front Connection
RC - Rear Connection

Low voltage switch disconnector ETIBREAK ED2


ETIBREAK ED2 125-1600

| Type | I_n [A] | Code No. | Poles | I_{cm} [kA peak] | U_c AC/DC [V] | Weight [kg] | Packaging [pcs] |
|------------------|--------------|-----------|-------|-----------------------|-----------------------|----------------|--------------------|
| ED2 125/3 | 125 | 004671271 | 3 | 3,6 | 690/250 | 1,1 | 1 |
| ED2 160/3 | 160 | 004671272 | 3 | 6 | 690/250 | 1,5 | 1 |
| ED2 250/3 | 250 | 004671273 | 3 | 6 | 690/250 | 1,5 | 1 |
| ED2 400/3 | 400 | 004671274 | 3 | 9 | 690/250 | 4,2 | 1 |
| ED2 630/3 | 630 | 004671275 | 3 | 9 | 690/250 | 4,4 | 1 |
| ED2 800/3 | 800 | 004672370 | 3 | 17 | 690/250 | 8,5 | 1 |
| ED2 1000/3 | 1000 | 004672373 | 3 | 17 | 690/250 | 10,4 | 1 |
| ED2 1250/3 | 1250 | 004672371 | 3 | 32 | 690/250 | 18,2 | 1 |
| ED2 1250/3 PI 3C | 1250 | 004672374 | 3 | 32 | 690/250 | 18,2 | 1 |
| ED2 1600/3 FC | 1600 | 004672372 | 3 | 45 | 690/250 | 24,9 | 1 |
| ED2 125/4 | 125 | 004671276 | 4 | 3,6 | 690/250 | 1,4 | 1 |
| ED2 160/4 | 160 | 004671277 | 4 | 6 | 690/250 | 1,9 | 1 |
| ED2 250/4 | 250 | 004671278 | 4 | 6 | 690/250 | 1,9 | 1 |
| ED2 400/4 | 400 | 004671279 | 4 | 9 | 690/250 | 5,6 | 1 |
| ED2 630/4 | 630 | 004671280 | 4 | 9 | 690/250 | 5,8 | 1 |
| ED2 800/4 | 800 | 004672380 | 4 | 17 | 690/250 | 11,5 | 1 |
| ED2 1000/4 | 1000 | 004672383 | 4 | 17 | 690/250 | 14,0 | 1 |
| ED2 1250/4 | 1250 | 004672381 | 4 | 32 | 690/250 | 23,4 | 1 |
| ED2 1600/4 FC | 1600 | 004672382 | 4 | 45 | 690/250 | 32,9 | 1 |

Note:

All internal and external accessories for MCCBs can also be mounted to corresponding type of switch disconnectors.

ED2 1250/3 PI 3C:

This is an already prepared Plug-in version for ED2 with 3 AUX terminals on conversion side. Beside that you have to order base side (NPF) and AUX terminals for base side (please see accessories for 1250AF)

| Product series | description | unit | condition | EB2 800 | | | EB2 800 | | | EB2 1000 | | EB2 1250 | | EB2 1600 | |
|--|-------------------------|--------|-------------|----------|----------|----------|---------|-------|-------|----------|-------|----------|------|----------|--------|
| Model-type | | | | L | S | H | LE | E | HE | LE | E | LE | E | LE | E |
| Number of poles | | | | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 |
| Nominal current ratings | | | | | | | | | | | | | | | |
| | I _n | (A) | 50°C | 630, 800 | 630, 800 | 630, 800 | 800 | 800 | 800 | 1000 | 1000 | 1250 | 1250 | 1600 | 1600 |
| Electrical characteristics | | | | | | | | | | | | | | | |
| Rated operational voltage | U _e | (V) | AC 50/60 Hz | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 |
| | | | DC | 250 | 250 | 250 | - | - | - | - | - | - | - | - | - |
| Rated insulation voltage | U _i | (V) | | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| Rated impulse withstand voltage | U _{imp} | (kV) | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Ultimate breaking capacity (IEC, JIS, AS/NZS) | I _{cu} | (kA) | 690V AC | 10* | 20* | 25* | 20* | 25* | 25* | 20* | 25* | 20* | 25* | 20* | 45* |
| | | | 525V AC | 15* | 30 | 45 | 30 | 35 | 40 | 30 | 45 | 30 | 45 | 30 | 65 |
| | | | 440V AC | 30 | 50 | 65 | 50 | 65 | 125 | 45 | 65 | 45 | 65 | 45 | 85 |
| | | | 400/415V AC | 36 | 50 | 70 | 50 | 70 | 125 | 50 | 70 | 50 | 70 | 50 | 100/85 |
| | | | 220/240V AC | 50 | 85 | 100 | 85 | 100 | 150 | 85 | 100 | 85 | 100 | 85 | 125 |
| | | | 250V DC | 50 | 50 | 50 | - | - | - | - | - | - | - | - | - |
| Service breaking capacity (IEC, JIS, AS/NZS) | I _{cs} | (kA) | 690V AC | 10* | 20* | 20* | 20* | 20* | 20* | 15* | 20* | 15* | 20* | 15* | 34* |
| | | | 525V AC | 15* | 30 | 34 | 30 | 30 | 34 | 23 | 34 | 23 | 34 | 23 | 50 |
| | | | 440V AC | 30 | 50 | 50 | 50 | 50 | 94 | 34 | 50 | 34 | 50 | 34 | 65 |
| | | | 400/415V AC | 36 | 50 | 50 | 50 | 50 | 94 | 38 | 50 | 38 | 50 | 38 | 75/65 |
| | | | 220/240V AC | 50 | 85 | 75 | 85 | 75 | 150 | 65 | 75 | 65 | 75 | 65 | 94 |
| | | | 250V DC | 50 | 50 | 50 | - | - | - | - | - | - | - | - | - |
| Rated breaking capacity (NEMA) | | (kA) | 480V AC | 15 | 30 | 45 | 30 | 35 | 40 | 30 | 45 | 30 | 45 | 30 | 65 |
| | | | 240V AC | 50 | 85 | 100 | 85 | 100 | 150 | 85 | 100 | 85 | 100 | 85 | 125 |
| Rated short-time withstand current | I _{cw} | (kA) | 0,3 sec | - | - | - | 10 | 10 | 10 | - | - | 15 | 15 | 20 | 20 |
| Protection | | | | | | | | | | | | | | | |
| Adjustable thermal, adjustable magnetic | | | | ■ | ■ | ■ | - | - | - | - | - | - | - | - | - |
| Fixed thermal, fixed magnetic | | | | - | - | - | - | - | - | - | - | - | - | - | - |
| Microprocessor | | | | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Utilisation category | | | | A | A | A | B | B | B | A | A | B | B | B | B |
| Installation | | | | | | | | | | | | | | | |
| Front connection | | | | ■ | ■ | ■ | ■ | ■ | - | - | - | - | - | - | - |
| Attached flat bar | | | | • | • | • | • | • | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Solderless terminal (cable clamp) | | | | • | • | • | - | - | - | - | • | - | - | - | - |
| Rear connection | | | | • | • | • | - | - | • | • | - | - | - | • | • |
| Plug-in | | | | • | • | • | - | - | • | - | - | - | - | - | - |
| Draw-out | | | | - | - | - | - | - | - | - | - | - | - | - | - |
| DIN rail mounting | | | | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimensions | h | (mm) | | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 370 | 370 | 370 | 370 |
| | w | (mm) | 3 pole | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 |
| | | (mm) | 4 pole | 280 | 280 | 280 | 280 | 280 | 280 | 280 | 280 | 280 | 280 | 280 | 280 |
| | d | (mm) | | 103 | 103 | 103 | 103 | 103 | 140 | 103 | 103 | 120 | 120 | 140 | 140 |
| Weight | W | (kg) | 3 pole | 8,5 | 8,5 | 8,5 | 9,1 | 9,1 | 12,3 | 11 | 11 | 19,8 | 19,8 | 27 | 27 |
| | | | 4 pole | 11,5 | 11,5 | 11,5 | 12,3 | 12,3 | 14,8 | 14,8 | 14,8 | 25 | 25 | 35 | 35 |
| Operation | | | | | | | | | | | | | | | |
| Direct Opening Action | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Toggle operation | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Variable depth / direct mount operating handle | | | | • | • | • | • | • | • | • | • | • | • | • | • |
| Motor operator | | | | • | • | • | • | • | • | • | • | • | • | • | • |
| Endurance | Electrical | cycles | 690 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 2000 | 2000 |
| | Mechanical | cycles | | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 5000 | 5000 | 5000 | 5000 |
| Standards | IEC 60947-2, EN 60947-2 | | | | | | | | | | | | | | |

■ Standard • Optional - Not Available

* MCCB can not be used in IT system at this voltage

Technical data

Low voltage switch disconnecter

| Product series | desc. | unit | condition | ED2 | ED2 | ED2 | ED2 | ED2 | ED2 | ED2 | ED2 | ED2 | |
|--|-----------|-----------|-------------|-------------------------|--------|--------|--------|--------|-------------------------|--------|--------|--------|------|
| Model-type | | | | 125 | 160 | 250 | 400 | 630 | 800 | 1000 | 1250 | 1600 | |
| Number of Poles | | | | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 | |
| Nominal current ratings | | | | | | | | | | | | | |
| | I_n | (A) | | 125 | 160 | 250 | 400 | 630 | 800 | 1000 | 1250 | 1600 | |
| Electrical characteristics | | | | | | | | | | | | | |
| Rated operational voltage | U_e | (V) | AC 50/60 Hz | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | |
| | | | DC | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | |
| Rated insulation voltage | U_i | (V) | | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| Rated impulse withstand voltage | U_{imp} | (kV) | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| Rated short-circuit making capacity | I_{cm} | (kA peak) | | 3,6 | 6 | 6 | 9 | 9 | 17 | 17 | 32 | 45 | |
| Rated short-time withstand current | I_{cw} | (kA rms) | 0.3s | 2 | 3 | 3 | 5 | 5 | 10 | 10 | 10 | 10 | |
| | | | AC | AC-23A | AC-23A | AC-23A | AC-23A | AC-23A | AC-23A | AC-23A | AC-23A | AC-23A | |
| | | | DC | DC-22A | DC-22A | DC-22A | DC-22A | DC-22A | DC-22A | DC-22A | DC-22A | DC-22A | |
| Installation | | | | | | | | | | | | | |
| Front connection | | | | ■ | ■ | ■ | ■ | ■ | ■ | - | - | - | |
| Attached flat bar | | | | • | • | • | • | • | • | ■ | ■ | • | |
| Solderless terminal | | | | • | • | • | • | • | - | - | - | - | |
| Rear connection | | | | • | • | • | • | • | • | • | • | ■ | |
| Plug-in | | | | • | • | • | • | • | • | - | • | - | |
| Draw-out | | | | • | • | • | • | • | • | - | • | • | |
| DIN rail mounting | | | | • | - | - | - | - | - | - | - | - | |
| Dimensions | h | (mm) | | 155 | 165 | 165 | 260 | 260 | 273 | 273 | 370 | 370 | |
| | | | w | (mm) | 3 pole | 90 | 105 | 105 | 140 | 140 | 210 | 210 | 210 |
| | | (mm) | 4 pole | 120 | 140 | 140 | 185 | 185 | 280 | 280 | 280 | 280 | |
| | d | (mm) | | 68 | 68 | 68 | 103 | 103 | 103 | 103 | 120 | 140 | |
| Weight | W | (kg) | 3 pole | 1.1 | 1.5 | 1.5 | 4.2 | 4.4 | 8,5 | 10,4 | 18,2 | 24,9 | |
| | | | 4 pole | 1.4 | 1.9 | 1.9 | 5.6 | 5.8 | 11,5 | 14,0 | 23,4 | 32,9 | |
| Operation | | | | | | | | | | | | | |
| Direct Opening Action | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Toggle operation | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Variable depth / direct mount operating handle | | | | • | • | • | • | • | • | • | • | • | |
| Motor operator | | | | • | • | • | • | • | • | • | • | • | |
| Endurance | Elec. | cycles | 415V AC | 30000 | 10000 | 10000 | 4500 | 4500 | 4000 | 4000 | 4000 | 2000 | |
| | | | Mech. | cycles | 30000 | 30000 | 30000 | 15000 | 15000 | 10000 | 10000 | 5000 | 5000 |
| Standards | | | | IEC 60947-2, EN 60947-2 | | | | | IEC 60947-3, EN 60947-3 | | | | |