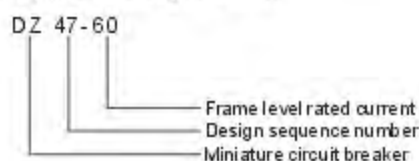


## DZ47-60 Miniature Circuit Breaker

### 1. General

- 1.1 Certificates: CB, KEMA, SEMKO, UC, PCT, UKRTEST, RCC
- 1.2 Electric ratings: up to 60A, 230V/1P, 400V/2, 3, 4P, AC 50/60Hz
- 1.3 Tripping characteristics: B, C, D;
- 1.4 Rated insulation voltage  $U_i$ : 500V;
- 1.5 Rated impulse withstand voltage  $U_{imp}$ : 5000 V;
- 1.6 Life (operations):
  - a. Electric life:  $\geq 4000$
  - b. Mechanical life:  $\geq 10000$
- 1.7 Ambient temperature:  $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$ ;
- 1.8 Standard: IEC 60898

### 2. Type Designation



### 3. Technical Data

- 3.1 Technical parameters
- DZ47-60 Curve B, 1P

DZ47-60 Curve B, 1P

$I_n$ (A)	$I_{cs}$ (kA)	CTN	Order Code
1	6	120	133031
2	6	120	133032
3	6	120	133033
4	6	120	133034
5	6	120	133035
6	6	120	133036
10	6	120	133037
15	6	120	133038
16	6	120	133039
20	6	120	133040
25	6	120	133041
32	6	120	133042
40	6	120	133043
50	4	120	133044
60	4	120	133045

DZ47-60 Curve B, 1P

$I_n$ (A)	$I_{cs}$ (kA)	CTN	Order Code
1	4.5	120	133016
2	4.5	120	133017
3	4.5	120	133018
4	4.5	120	133019
5	4.5	120	133020
6	4.5	120	133021
10	4.5	120	133022
15	4.5	120	133023
16	4.5	120	133024
20	4.5	120	133025
25	4.5	120	133026
32	4.5	120	133027
40	4.5	120	133028
50	4.5	120	133029
60	4.5	120	133030

D Z47-60 Curve B, 1P



In (A)	Ics (kA)	CTN	Order Code
1	3	120	133001
2	3	120	133002
3	3	120	133003
4	3	120	133004
5	3	120	133005
6	3	120	133006
10	3	120	133007
15	3	120	133008
16	3	120	133009
20	3	120	133010
25	3	120	133011
32	3	120	133012
40	3	120	133013
50	3	120	133014
60	3	120	133015

D Z47-60 Curve B, 2P



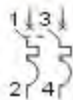
In (A)	Ics (kA)	CTN	Order Code
1	6	60	133076
2	6	60	133077
3	6	60	133078
4	6	60	133079
5	6	60	133080
6	6	60	133081
10	6	60	133082
15	6	60	133083
16	6	60	133084
20	6	60	133085
25	6	60	133086
32	6	60	133087
40	6	60	133088
50	4	60	133089
60	4	60	133090

D Z47-60 Curve B, 2P



In (A)	Ics (kA)	CTN	Order Code
1	4.5	60	133061
2	4.5	60	133062
3	4.5	60	133063
4	4.5	60	133064
5	4.5	60	133065
6	4.5	60	133066
10	4.5	60	133067
15	4.5	60	133068
16	4.5	60	133069
20	4.5	60	133070
25	4.5	60	133071
32	4.5	60	133072
40	4.5	60	133073
50	4.5	60	133074
60	4.5	60	133075

DZ47-60 Curve B, 2P



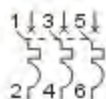
In (A)	Ics (kA)	CTN	Order Code
1	3	60	133046
2	3	60	133047
3	3	60	133048
4	3	60	133049
5	3	60	133050
6	3	60	133051
10	3	60	133052
15	3	60	133053
16	3	60	133054
20	3	60	133055
25	3	60	133056
32	3	60	133057
40	3	60	133058
50	3	60	133059
60	3	60	133060

DZ47-60 Curve B, 3P



In (A)	Ics (kA)	CTN	Order Code
1	6	40	133121
2	6	40	133122
3	6	40	133123
4	6	40	133124
5	6	40	133125
6	6	40	133126
10	6	40	133127
15	6	40	133128
16	6	40	133129
20	6	40	133130
25	6	40	133131
32	6	40	133132
40	6	40	133133
50	4	40	133134
60	4	40	133135

DZ47-60 Curve B, 3P



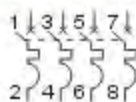
In (A)	Ics (kA)	CTN	Order Code
1	4.5	40	133106
2	4.5	40	133107
3	4.5	40	133108
4	4.5	40	133109
5	4.5	40	133110
6	4.5	40	133111
10	4.5	40	133112
15	4.5	40	133113
16	4.5	40	133114
20	4.5	40	133115
25	4.5	40	133116
32	4.5	40	133117
40	4.5	40	133118
50	4.5	40	133119
60	4.5	40	133120

D Z47-60 Curve B, 3P



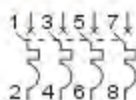
In (A)	Ics (kA)	CTN	Order Code
1	3	40	133091
2	3	40	133092
3	3	40	133093
4	3	40	133094
5	3	40	133095
6	3	40	133096
10	3	40	133097
15	3	40	133098
16	3	40	133099
20	3	40	133100
25	3	40	133101
32	3	40	133102
40	3	40	133103
50	3	40	133104
60	3	40	133105

D Z47-60 Curve B, 4P



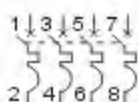
In (A)	Ics (kA)	CTN	Order Code
1	6	30	133166
2	6	30	133167
3	6	30	133168
4	6	30	133169
5	6	30	133170
6	6	30	133171
10	6	30	133172
15	6	30	133173
16	6	30	133174
20	6	30	133175
25	6	30	133176
32	6	30	133177
40	6	30	133178
50	4	30	133179
60	4	30	133180

D Z47-60 Curve B, 4P



In (A)	Ics (kA)	CTN	Order Code
1	4.5	30	133151
2	4.5	30	133152
3	4.5	30	133153
4	4.5	30	133154
5	4.5	30	133155
6	4.5	30	133156
10	4.5	30	133157
15	4.5	30	133158
16	4.5	30	133159
20	4.5	30	133160
25	4.5	30	133161
32	4.5	30	133162
40	4.5	30	133163
50	4.5	30	133164
60	4.5	30	133165

DZ47-60 Curve B, 4P



$I_n$ (A)	$I_{cs}$ (kA)	CTN	Order Code
1	3	30	133136
2	3	30	133137
3	3	30	133138
4	3	30	133139
5	3	30	133140
6	3	30	133141
10	3	30	133142
15	3	30	133143
16	3	30	133144
20	3	30	133145
25	3	30	133146
32	3	30	133147
40	3	30	133148
50	3	30	133149
60	3	30	133150

DZ47-60 Curve C, 1P



$I_n$ (A)	$I_{cs}$ (kA)	CTN	Order Code
1	6	120	133211
2	6	120	133212
3	6	120	133213
4	6	120	133214
5	6	120	133215
6	6	120	133216
10	6	120	133217
15	6	120	133218
16	6	120	133219
20	6	120	133220
25	6	120	133221
32	6	120	133222
40	6	120	133223
50	4	120	133224
60	4	120	133225

DZ47-60 Curve C, 1P



$I_n$ (A)	$I_{cs}$ (kA)	CTN	Order Code
1	4.5	120	133196
2	4.5	120	133197
3	4.5	120	133198
4	4.5	120	133199
5	4.5	120	133200
6	4.5	120	133201
10	4.5	120	133202
15	4.5	120	133203
16	4.5	120	133204
20	4.5	120	133205
25	4.5	120	133206
32	4.5	120	133207
40	4.5	120	133208
50	4.5	120	133209
60	4.5	120	133210

DZ47-60 Curve C, 1P



In (A)	Ics (kA)	CTN	Order Code
1	3	120	133181
2	3	120	133182
3	3	120	133183
4	3	120	133184
5	3	120	133185
6	3	120	133186
10	3	120	133187
15	3	120	133188
16	3	120	133189
20	3	120	133190
25	3	120	133191
32	3	120	133192
40	3	120	133193
50	3	120	133194
60	3	120	133195

DZ47-60 Curve C, 2P



In (A)	Ics (kA)	CTN	Order Code
1	6	60	133256
2	6	60	133257
3	6	60	133258
4	6	60	133259
5	6	60	133260
6	6	60	133261
10	6	60	133262
15	6	60	133263
16	6	60	133264
20	6	60	133265
25	6	60	133266
32	6	60	133267
40	6	60	133268
50	4	60	133269
60	4	60	133270

DZ47-60 Curve C, 2P



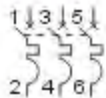
In (A)	Ics (kA)	CTN	Order Code
1	4.5	60	133241
2	4.5	60	133242
3	4.5	60	133243
4	4.5	60	133244
5	4.5	60	133245
6	4.5	60	133246
10	4.5	60	133247
15	4.5	60	133248
16	4.5	60	133249
20	4.5	60	133250
25	4.5	60	133251
32	4.5	60	133252
40	4.5	60	133253
50	4.5	60	133254
60	4.5	60	133255

DZ47-60 Curve C, 2P



In (A)	Ics (kA)	CTN	Order Code
1	3	60	133226
2	3	60	133227
3	3	60	133228
4	3	60	133229
5	3	60	133230
6	3	60	133231
10	3	60	133232
15	3	60	133233
16	3	60	133234
20	3	60	133235
25	3	60	133236
32	3	60	133237
40	3	60	133238
50	3	60	133239
60	3	60	133240

DZ47-60 Curve C, 3P



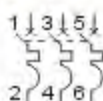
In (A)	Ics (kA)	CTN	Order Code
1	6	40	133301
2	6	40	133302
3	6	40	133303
4	6	40	133304
5	6	40	133305
6	6	40	133306
10	6	40	133307
15	6	40	133308
16	6	40	133309
20	6	40	133310
25	6	40	133311
32	6	40	133312
40	6	40	133313
50	4	40	133314
60	4	40	133315

DZ47-60 Curve C, 3P



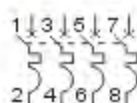
In (A)	Ics (kA)	CTN	Order Code
1	4.5	40	133286
2	4.5	40	133287
3	4.5	40	133288
4	4.5	40	133289
5	4.5	40	133290
6	4.5	40	133291
10	4.5	40	133292
15	4.5	40	133293
16	4.5	40	133294
20	4.5	40	133295
25	4.5	40	133296
32	4.5	40	133297
40	4.5	40	133298
50	4.5	40	133299
60	4.5	40	133300

DZ47-60 Curve C, 3P



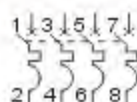
In (A)	Ics (kA)	CTN	Order Code
1	3	40	133271
2	3	40	133272
3	3	40	133273
4	3	40	133274
5	3	40	133275
6	3	40	133276
10	3	40	133277
15	3	40	133278
16	3	40	133279
20	3	40	133280
25	3	40	133281
32	3	40	133282
40	3	40	133283
50	3	40	133284
60	3	40	133285

DZ47-60 Curve C, 4P



In (A)	Ics (kA)	CTN	Order Code
1	6	30	133346
2	6	30	133347
3	6	30	133348
4	6	30	133349
5	6	30	133350
6	6	30	133351
10	6	30	133352
15	6	30	133353
16	6	30	133354
20	6	30	133355
25	6	30	133356
32	6	30	133357
40	6	30	133358
50	4	30	133359
60	4	30	133360

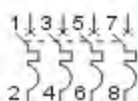
DZ47-60 Curve C, 4P



In (A)	Ics (kA)	CTN	Order Code
1	4.5	30	133331
2	4.5	30	133332
3	4.5	30	133333
4	4.5	30	133334
5	4.5	30	133335
6	4.5	30	133336
10	4.5	30	133337
15	4.5	30	133338
16	4.5	30	133339
20	4.5	30	133340
25	4.5	30	133341
32	4.5	30	133342
40	4.5	30	133343
50	4.5	30	133344
60	4.5	30	133345



DZ47-60 Curve C, 4P



In (A)	Ics (kA)	CTN	Order Code
1	3	30	133316
2	3	30	133317
3	3	30	133318
4	3	30	133319
5	3	30	133320
6	3	30	133321
10	3	30	133322
15	3	30	133323
16	3	30	133324
20	3	30	133325
25	3	30	133326
32	3	30	133327
40	3	30	133328
50	3	30	133329
60	3	30	133330

DZ47-60 Curve D, 1P



In (A)	Ics (kA)	CTN	Order Code
1	4	120	133391
2	4	120	133392
3	4	120	133393
4	4	120	133394
5	4	120	133395
6	4	120	133396
10	4	120	133397
15	4	120	133398
16	4	120	133399
20	4	120	133400
25	4	120	133401
32	4	120	133402
40	4	120	133403
50	4	120	133404
60	4	120	133405

DZ47-60 Curve D, 1P



In (A)	Ics (kA)	CTN	Order Code
1	4.5	120	133376
2	4.5	120	133377
3	4.5	120	133378
4	4.5	120	133379
5	4.5	120	133380
6	4.5	120	133381
10	4.5	120	133382
15	4.5	120	133383
16	4.5	120	133384
20	4.5	120	133385
25	4.5	120	133386
32	4.5	120	133387
40	4.5	120	133388
50	4.5	120	133389
60	4.5	120	133390

DZ47-60 Curve D, 1P



In (A)	Ics (kA)	CTN	Order Code
1	3	120	133361
2	3	120	133362
3	3	120	133363
4	3	120	133364
5	3	120	133365
6	3	120	133366
10	3	120	133367
15	3	120	133368
16	3	120	133369
20	3	120	133370
25	3	120	133371
32	3	120	133372
40	3	120	133373
50	3	120	133374
60	3	120	133375

DZ47-60 Curve D, 2P



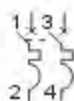
In (A)	Ics (kA)	CTN	Order Code
1	4	60	133436
2	4	60	133437
3	4	60	133438
4	4	60	133439
5	4	60	133440
6	4	60	133441
10	4	60	133442
15	4	60	133443
16	4	60	133444
20	4	60	133445
25	4	60	133446
32	4	60	133447
40	4	60	133448
50	4	60	133449
60	4	60	133450

DZ47-60 Curve D, 2P



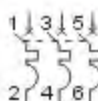
In (A)	Ics (kA)	CTN	Order Code
1	4.5	60	133421
2	4.5	60	133422
3	4.5	60	133423
4	4.5	60	133424
5	4.5	60	133425
6	4.5	60	133426
10	4.5	60	133427
15	4.5	60	133428
16	4.5	60	133429
20	4.5	60	133430
25	4.5	60	133431
32	4.5	60	133432
40	4.5	60	133433
50	4.5	60	133434
60	4.5	60	133435

DZ47-60 Curve D, 2P



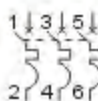
In (A)	Ics (kA)	CTN	Order Code
1	3	60	133406
2	3	60	133407
3	3	60	133408
4	3	60	133409
5	3	60	133410
6	3	60	133411
10	3	60	133412
15	3	60	133413
16	3	60	133414
20	3	60	133415
25	3	60	133416
32	3	60	133417
40	3	60	133418
50	3	60	133419
60	3	60	133420

DZ47-60 Curve D, 3P



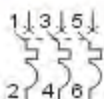
In (A)	Ics (kA)	CTN	Order Code
1	4	40	133481
2	4	40	133482
3	4	40	133483
4	4	40	133484
5	4	40	133485
6	4	40	133486
10	4	40	133487
15	4	40	133488
16	4	40	133489
20	4	40	133490
25	4	40	133491
32	4	40	133492
40	4	40	133493
50	4	40	133494
60	4	40	133495

DZ47-60 Curve D, 3P



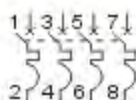
In (A)	Ics (kA)	CTN	Order Code
1	4.5	40	133466
2	4.5	40	133467
3	4.5	40	133468
4	4.5	40	133469
5	4.5	40	133470
6	4.5	40	133471
10	4.5	40	133472
15	4.5	40	133473
16	4.5	40	133474
20	4.5	40	133475
25	4.5	40	133476
32	4.5	40	133477
40	4.5	40	133478
50	4.5	40	133479
60	4.5	40	133480

DZ47-60 Curve D, 3P



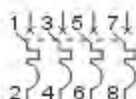
In (A)	Ics (kA)	CTN	Order Code
1	3	40	133451
2	3	40	133452
3	3	40	133453
4	3	40	133454
5	3	40	133455
6	3	40	133456
10	3	40	133457
15	3	40	133458
16	3	40	133459
20	3	40	133460
25	3	40	133461
32	3	40	133462
40	3	40	133463
50	3	40	133464
60	3	40	133465

DZ47-60 Curve D, 4P



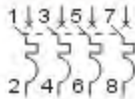
In (A)	Ics (kA)	CTN	Order Code
1	4	30	133526
2	4	30	133527
3	4	30	133528
4	4	30	133529
5	4	30	133530
6	4	30	133531
10	4	30	133532
15	4	30	133533
16	4	30	133534
20	4	30	133535
25	4	30	133536
32	4	30	133537
40	4	30	133538
50	4	30	133539
60	4	30	133540

DZ47-60 Curve D, 4P



In (A)	Ics (kA)	CTN	Order Code
1	4.5	30	133511
2	4.5	30	133512
3	4.5	30	133513
4	4.5	30	133514
5	4.5	30	133515
6	4.5	30	133516
10	4.5	30	133517
15	4.5	30	133518
16	4.5	30	133519
20	4.5	30	133520
25	4.5	30	133521
32	4.5	30	133522
40	4.5	30	133523
50	4.5	30	133524
60	4.5	30	133525

DZ47-60 Curve D, 4P



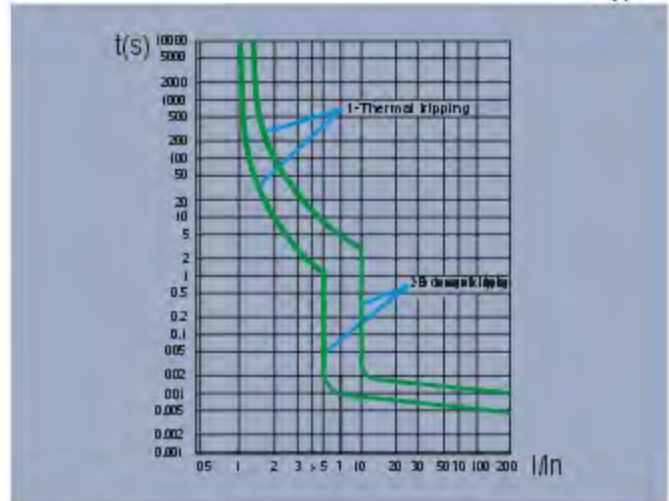
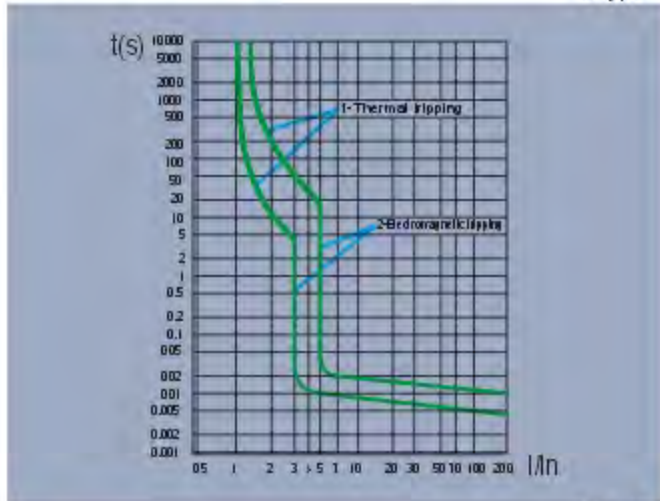
$I_n$ (A)	$I_{cs}$ (kA)	CTN	Order Code
1	3	30	133496
2	3	30	133497
3	3	30	133498
4	3	30	133499
5	3	30	133500
6	3	30	133501
10	3	30	133502
15	3	30	133503
16	3	30	133504
20	3	30	133505
25	3	30	133506
32	3	30	133507
40	3	30	133508
50	3	30	133509
60	3	30	133510

Curves

DZ47-60 MCB is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.

B type

C type



D type

