



BULLETIN # 03T-2

Carlyle/RCD Refrigeration Products
PO Box 4808
Carrier Parkway, TR3
Syracuse, NY 13221

SUBJECT: Revised Recommendations for Calibrated Circuit Breakers

DATE: January 17, 2003 (Revised March 28, 2006)

AUTHOR: Paul Tollar

| | | |
|---|--|----------------------------------|
| <input checked="" type="checkbox"/> PRODUCT | <input type="checkbox"/> SERVICE & PARTS | <input type="checkbox"/> GENERAL |
|---|--|----------------------------------|

Product Name: 06E, 06CC, 06T

DESCRIPTION

This bulletin is to update and replace Carlyle Bulletin 00T-6 dated July 7, 2000. The only significant change in this bulletin from the earlier data is there is a new circuit breaker selection for the 30 Hp for 400/460v applications for the 06E & 06TA compressors. The older HH83XA425 circuit breaker has been discontinued and replaced by the HH83XA478 circuit breaker. Slight changes were made in the calibration settings to assist in avoiding nuisance trips.

The attached tables detail these recommendations. Circuit breaker part numbers that are followed by an asterisk indicate that the circuit breaker requires "ring" type power wire terminals. All other circuit breakers listed in these tables utilize a "compression" type power wire terminal.

Many of our 460-volt models have recommendations for both the larger body (XA), and the smaller body (XB), circuit breakers. This allows the customer to choose the most practical or economical circuit breaker for their application.

To assure availability of these circuit breakers, we have increased our minimum inventory levels for the 'Recommended Circuit Breaker' for each model. The 'Alternate' circuit breaker shown in these tables may have a six-week lead-time.



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Carlyle/RCD Refrigeration Products
 PO Box 4808
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 Syracuse, NY 13221

| COMPRESSOR INFORMATION | | | | | RECOMMENDED CIRCUIT BREAKERS | | | | | | | |
|------------------------|---------|----|-------------|--------|------------------------------|----------------|--------|-----|------------------|----------------|--------|-----|
| 06ER MODELS | VOLTAGE | HP | MAX. M.T.A. | LRA XL | RECOMMENDED PART # | MUST HOLD AMPS | M.T.A. | LRA | ALTERNATE PART # | MUST HOLD AMPS | M.T.A. | LRA |
| 06ER450100 | 575 | 15 | 38 | 96 | HH83XA460 | 29 | 33.5 | 97 | HH83XB634 | 28 | 33 | 96 |
| 450600 | 400/460 | | 46 | 142 | HH83XA463 | 40 | 46 | 150 | HH83XB695 | 40 | 46 | 142 |
| 450300 | 208/230 | | 90 | 283 | HH83XB626 | 78 | 90 | 250 | HH83XB356* | 78 | 90 | 250 |
| 450300 | 460 | | 46 | 142 | HH83XA463 | 40 | 46 | 150 | HH83XB695 | 40 | 46 | 142 |
| 06ER465100 | 575 | 20 | 45 | 120 | HH83XA461 | 33 | 38 | 124 | HH83XB422 | 34 | 40 | 120 |
| 465600 | 400/460 | | 54 | 173 | HH83XA424 | 42 | 49 | 175 | HH83XB606 | 43 | 49 | 173 |
| 465300 | 208/230 | | 108 | 345 | HH83XB625 | 91 | 104 | 350 | HH83XB336* | 91 | 104 | 350 |
| 465300 | 460 | | 54 | 173 | HH83XA424 | 42 | 49 | 175 | HH83XB606 | 43 | 49 | 173 |
| 06ER475100 | 575 | 20 | 45 | 120 | HH83XA461 | 33 | 38 | 124 | HH83XB422 | 34 | 40 | 120 |
| 475600 | 400/460 | | 54 | 173 | HH83XA424 | 42 | 49 | 175 | HH83XB606 | 43 | 49 | 173 |
| 475300 | 208/230 | | 108 | 345 | HH83XB625 | 91 | 104 | 350 | HH83XB336* | 91 | 104 | 350 |
| 475300 | 460 | | 54 | 173 | HH83XA424 | 42 | 49 | 175 | HH83XB606 | 43 | 49 | 173 |
| 06ER399100 | 575 | 30 | 65 | 176 | HH83XA430 | 50 | 58 | 168 | HH83XB683 | 54 | 62 | 172 |
| 399600 | 400/460 | | 84 | 253 | HH83XA478 | 65 | 76 | 274 | HH83XB609 | 67 | 76 | 274 |
| 399300 | 208/230 | | 168 | 506 | HH83XC539 | 142 | 163 | 507 | | | | |
| 399300 | 460 | | 84 | 253 | HH83XA478 | 65 | 76 | 274 | HH83XB609 | 67 | 76 | 274 |

| COMPRESSOR INFORMATION | | | | | RECOMMENDED CIRCUIT BREAKERS | | | | | | | |
|------------------------|---------|----|-------------|--------|------------------------------|----------------|--------|-----|------------------|----------------|--------|-----|
| 06EM MODELS | VOLTAGE | HP | MAX. M.T.A. | LRA XL | RECOMMENDED PART # | MUST HOLD AMPS | M.T.A. | LRA | ALTERNATE PART # | MUST HOLD AMPS | M.T.A. | LRA |
| 06EM450100 | 575 | 15 | 38 | 96 | HH83XA460 | 29 | 33.5 | 97 | HH83XB634 | 28 | 33 | 96 |
| 450600 | 400/460 | | 46 | 142 | HH83XA463 | 40 | 46 | 150 | HH83XB695 | 40 | 46 | 142 |
| 450300 | 208/230 | | 90 | 283 | HH83XB626 | 78 | 90 | 250 | HH83XB356* | 78 | 90 | 250 |
| 450300 | 460 | | 46 | 142 | HH83XA463 | 40 | 46 | 150 | HH83XB695 | 40 | 46 | 142 |
| 06EA565100 | 575 | 25 | 57 | 164 | HH83XA469 | 46 | 53 | 164 | HH83XB615 | 45 | 51 | 172 |
| 565600 | 400/460 | | 70 | 223 | HH83XA426 | 55 | 64 | 210 | HH83XB607 | 56 | 64 | 215 |
| 565300 | 208/230 | | 140 | 446 | HH83XC509 | 110 | 127 | 420 | HH83XC571 | 112 | 128 | 433 |
| 565300 | 460 | | 70 | 223 | HH83XA426 | 55 | 64 | 210 | HH83XB607 | 56 | 64 | 215 |
| 06EM475100 | 575 | 25 | 57 | 164 | HH83XA469 | 46 | 53 | 164 | HH83XB615 | 45 | 51 | 172 |
| 475600 | 400/460 | | 70 | 223 | HH83XA426 | 55 | 64 | 210 | HH83XB607 | 56 | 64 | 215 |
| 475300 | 208/230 | | 140 | 446 | HH83XC509 | 110 | 127 | 420 | HH83XC571 | 112 | 128 | 433 |
| 475300 | 460 | | 70 | 223 | HH83XA426 | 55 | 64 | 210 | HH83XB607 | 56 | 64 | 215 |
| 06EM499100 | 575 | 35 | 77 | 212 | HH83XA453 | 68 | 78 | 236 | HH83XB680 | 63 | 73 | 240 |
| 499600 | 400/460 | | 96 | 305 | HH83XA547 | 77 | 88 | 283 | HH83XB648 | 75 | 87 | 280 |
| 499300 | 208/230 | | 193 | 610 | HH83XC532 | 158 | 182 | 590 | | | | |
| 499300 | 460 | | 96 | 305 | HH83XA547 | 77 | 88 | 283 | HH83XB648 | 75 | 87 | 280 |



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| COMPRESSOR INFORMATION | | | | | RECOMMENDED CIRCUIT BREAKERS | | | | | | | |
|------------------------|---------|----|-------------|--------|------------------------------|----------------|--------|-----|------------------|----------------|--------|-----|
| 06EA MODELS | VOLTAGE | HP | MAX. M.T.A. | LRA XL | RECOMMENDED PART # | MUST HOLD AMPS | M.T.A. | LRA | ALTERNATE PART # | MUST HOLD AMPS | M.T.A. | LRA |
| 06EA550100 | 575 | 20 | 45 | 120 | HH83XA461 | 33 | 38 | 124 | HH83XB422 | 34 | 40 | 120 |
| 550600 | 400/460 | | 54 | 173 | HH83XA424 | 42 | 49 | 175 | HH83XB606 | 43 | 49 | 173 |
| 550300 | 208/230 | | 108 | 345 | HH83XB625 | 91 | 104 | 350 | HH83XB336* | 91 | 104 | 350 |
| 550300 | 460 | | 54 | 173 | HH83XA424 | 42 | 49 | 175 | HH83XB606 | 43 | 49 | 173 |
| 06EA565100 | 575 | 25 | 57 | 164 | HH83XA469 | 46 | 53 | 164 | HH83XB615 | 45 | 51 | 172 |
| 565600 | 400/460 | | 70 | 223 | HH83XA426 | 55 | 64 | 210 | HH83XB607 | 56 | 64 | 215 |
| 565300 | 208/230 | | 140 | 446 | HH83XC509 | 110 | 127 | 420 | HH83XC571 | 112 | 128 | 433 |
| 565300 | 460 | | 70 | 223 | HH83XA426 | 55 | 64 | 210 | HH83XB607 | 56 | 64 | 215 |
| 06EA575100 | 575 | 30 | 65 | 176 | HH83XA430 | 50 | 58 | 168 | HH83XB683 | 54 | 62 | 172 |
| 575600 | 400/460 | | 84 | 253 | HH83XA478 | 65 | 76 | 274 | HH83XB609 | 67 | 76 | 274 |
| 575300 | 208/230 | | 168 | 506 | HH83XC539 | 142 | 163 | 507 | | | | |
| 575300 | 460 | | 84 | 253 | HH83XA478 | 65 | 76 | 274 | HH83XB609 | 67 | 76 | 274 |
| 06EA599100 | 575 | 40 | 94 | 276 | HH83XA551 | 74 | 86 | 236 | HH83XB636 | 77 | 89 | 240 |
| 599600 | 400/460 | | 118 | 345 | HH83XA550 | 92 | 106 | 295 | HH83XB405* | 88 | 102 | 300 |
| 599300 | 208/230 | | 236 | 690 | HH83XC537 | 187 | 215 | 636 | | | | |
| 599300 | 460 | | 118 | 345 | HH83XA550 | 92 | 106 | 295 | HH83XB405* | 88 | 102 | 300 |

| COMPRESSOR INFORMATION | | | | | RECOMMENDED CIRCUIT BREAKERS | | | | | | | |
|------------------------|---------|----|-------------|--------|------------------------------|----------------|--------|-----|------------------|----------------|---------|-----|
| 06CC MODELS | VOLTAGE | HP | MAX. M.T.A. | LRA XL | RECOMMENDED PART # | MUST HOLD AMPS | M.T.A. | LRA | ALTERNATE PART # | MUST HOLD AMPS | M.T. A. | LRA |
| 06CC550J | 575 | 15 | 27 | 98 | HH83XB438* | 23 | 27 | 86 | HH83XB689 | 23 | 27 | 86 |
| 06CC550F | 400/460 | | 32 | 142 | HH83XB414* | 27 | 32 | 145 | HH83XB698 | 27 | 32 | 145 |
| 06CC550E | 208/230 | | 68 | 283 | HH83XB455* | 59 | 68 | 245 | HH83XB697 | 59 | 68 | 245 |
| 06CC550E | 460 | | 32 | 142 | HH83XB414* | 27 | 32 | 145 | HH83XB698 | 27 | 32 | 145 |
| 06CC665J | 575 | 20 | 38 | 120 | HH83XA461 | 33 | 38 | 124 | | | | |
| 06CC665F | 400/460 | | 50 | 173 | HH83XB437* | 43 | 50 | 176 | HH83XB606 | 43 | 49 | 173 |
| 06CC665E | 208/230 | | 100 | 345 | HH83XB376* | 73 | 85 | 333 | | | | |
| 06CC665E | 460 | | 50 | 173 | HH83XB437* | 43 | 50 | 176 | HH83XB606 | 43 | 49 | 173 |
| 06CC675J | 575 | 20 | 38 | 120 | HH83XA461 | 33 | 38 | 124 | | | | |
| 06CC675F | 400/460 | | 50 | 173 | HH83XB437* | 43 | 50 | 176 | HH83XB606 | 43 | 49 | 173 |
| 06CC675E | 208/230 | | 100 | 345 | HH83XB378* | 77 | 89 | 365 | | | | |
| 06CC675E | 460 | | 50 | 173 | HH83XB437* | 43 | 50 | 176 | HH83XB606 | 43 | 49 | 173 |
| 06CC899J | 575 | 30 | 58 | 176 | HH83XA430 | 50 | 58 | 168 | HH83XA469 | 46 | 53 | 164 |
| 06CC899F | 400/460 | | 73 | 253 | HH83XB432* | 63 | 73 | 240 | HH83XB604 | 63 | 73 | 240 |
| 06CC899E | 208/230 | | 141 | 506 | HH83XC406 | 122 | 141 | 464 | | | | |
| 06CC899E | 460 | | 73 | 253 | HH83XB432* | 63 | 73 | 240 | HH83XB604 | 63 | 73 | 240 |



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| COMPRESSOR INFORMATION | | | | | RECOMMENDED CIRCUIT BREAKERS | | | | | | | |
|------------------------|---------|----|-------------|--------|------------------------------|----------------|--------|-----|------------------|----------------|--------|-----|
| 06TR MODELS | VOLTAGE | HP | MAX. M.T.A. | LRA XL | RECOMMENDED PART # | MUST HOLD AMPS | M.T.A. | LRA | ALTERNATE PART # | MUST HOLD AMPS | M.T.A. | LRA |
| 06TRC033C | 575 | 15 | 33.5 | 114 | HH83XA460 | 29 | 33.5 | 97 | HH83XB634 | 28 | 33 | 96 |
| 06TRC033B | 400/460 | | 46 | 142 | HH83XA463 | 40 | 46 | 142 | HH83XB695 | 40 | 46 | 142 |
| 06TRC033F | 208/230 | | 90 | 286 | HH83XB626 | 78 | 90 | 250 | HH83XB356 * | 78 | 90 | 250 |
| 06TRD039C | 575 | 20 | 39 | 138 | HH83XA461 | 33 | 38 | 124 | HH83XB614 | 34 | 39 | 138 |
| 06TRD039B | 400/460 | | 49 | 173 | HH83XA424 | 42 | 49 | 175 | HH83XB606 | 43 | 49 | 173 |
| 06TRD039F | 208/230 | | 104 | 348 | HH83XB625 | 91 | 104 | 350 | HH83XB336 * | 91 | 104 | 350 |
| 06TRD044C | 575 | 20 | 39 | 138 | HH83XA461 | 33 | 38 | 124 | HH83XB614 | 34 | 39 | 138 |
| 06TRD044B | 400/460 | | 49 | 173 | HH83XA424 | 42 | 49 | 175 | HH83XB606 | 43 | 49 | 173 |
| 06TRD044F | 208/230 | | 104 | 348 | HH83XB625 | 91 | 104 | 350 | HH83XB336 * | 91 | 104 | 350 |
| 06TRE048C | 575 | 25 | 53 | 172 | HH83XA469 | 46 | 53 | 164 | HH83XB615 | 45 | 51 | 172 |
| 06TRE048B | 400/460 | | 64 | 215 | HH83XA426 | 55 | 64 | 210 | HH83XB607 | 56 | 64 | 215 |
| 06TRE048F | 208/230 | | 128 | 433 | HH83XC509 | 110 | 127 | 420 | HH83XC571 | 112 | 128 | 433 |
| 06TRE054C | 575 | 25 | 53 | 172 | HH83XA469 | 46 | 53 | 164 | HH83XB615 | 45 | 51 | 172 |
| 06TRE054B | 400/460 | | 64 | 215 | HH83XA426 | 55 | 64 | 210 | HH83XB607 | 56 | 64 | 215 |
| 06TRE054F | 208/230 | | 128 | 433 | HH83XC509 | 110 | 127 | 420 | HH83XC571 | 112 | 128 | 433 |
| 06TRF065C | 575 | 30 | 62 | 219 | HH83XB617 | 54 | 61 | 219 | HH83XB609 | 67 | 76 | 274 |
| 06TRF065B | 400/460 | | 76 | 253 | HH83XA474 | 67 | 78 | 274 | | | | |
| 06TRF065F | 208/230 | | 154 | 611 | HH83XC573 | 134 | 154 | 611 | | | | |
| 06TRG078C | 575 | 35 | 72 | 258 | HH83XB618 | 63 | 72 | 258 | HH83XB610 | 74 | 89 | 323 |
| 06TRG078B | 400/460 | | 89 | 323 | HH83XA475 | 74 | 89 | 323 | | | | |
| 06TRG078F | 208/230 | | 181 | 721 | HH83XC574 | 158 | 181 | 721 | | | | |
| 06TRH088C | 575 | 40 | 81 | 296 | HH83XB619 | 71 | 81 | 296 | HH83XB611 | 88 | 101 | 370 |
| 06TRH088B | 400/460 | | 101 | 370 | HH83XA476 | 88 | 101 | 370 | | | | |
| 06TRH088F | 208/230 | | 203 | 825 | HH83XC575 | 179 | 203 | 825 | | | | |