

**50HCQ 6 – 8.5 Nominal Tons
Single Package Rooftop
Heat Pump
with Puron® (R-410A) Refrigerant
Sizes: 07 – 09**



Electrical Data Supplement

FOR MODELS PRODUCED ON OR AFTER MAY 18, 2015 ONLY!

NOTE: Read the entire instruction manual before starting the installation

This supplement only applies to 50HCQ size 07 - 09 units manufactured on or after May 18, 2015. To confirm the date of manufacture of the unit, locate the unit nameplate and check the first four digits of the Serial Number which is located directly below the unit's Model Number at the top of the nameplate. If the number listed in the first 4 digits of the Serial Number is 2115 or higher KEEP THIS DOCUMENT and use it along with the furnished Installation Instructions.

SERIAL NUMBER NOMENCLATURE


| | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|----|
| Position: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Example: | 2 | 1 | 1 | 5 | X | 1 | 2 | 3 | 4 | 5 |

| | |
|--|------------------------|
| Week of manufacture (fiscal calendar) | Sequence number |
| Year of manufacture ("15" = 2015) | Manufacturing location |

SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock or other conditions which may cause personal injury or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloths for brazing operations and have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions attached to the unit. Consult local building codes and appropriate national electrical codes (in USA, ANSI/NFPA70, National Electrical Code (NEC); in Canada, CSA C22.1) for special requirements.

It is important to recognize safety information. This is the safety-alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, CAUTION, and NOTE. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in

personal injury or death. CAUTION is used to identify unsafe practices, which **may** result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

C150230

CAUTION

ELECTRICAL HAZARD

Failure to follow this caution may result in personal injury or product and property damage.

The electrical data contained in this document is only for use with 50HCQ size 07 - 09 units manufactured on or after May 18, 2015. Check the first 4 digits of the unit's Serial Number (located on the unit's nameplate) if the number listed is 2115 or higher keep this document.

WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could cause personal injury or death.

Before performing service or maintenance operations on unit, always turn off main power switch to unit and install lockout tag. Unit may have more than one power switch.

Table 1 - 50HCQ 07-09 Unit Wire/Fuse or HACR Breaker Sizing Data - Single Speed Indoor Fan Motor (cont)

| UNIT | ELEC. HTR | | | NO C.O. or UNPWR C.O. | | | | | | | | | | w/ PWRD C.O. | | | | | | | | | | |
|----------|-----------|----------------|-----------|-----------------------|---------|-----------------------|---------|------------|---------|------------------------|-----------------------|---------|------------|--------------|---------|-----------------------|---------|------------|---------|------------------------|-----------------------|---------|------------|---------|
| | IFM TYPE | CRHEATER***A00 | Nom (kW) | FLA | NO RE. | | | | | w/ P.E. (pwrd fr/unit) | | | | | NO RE. | | | | | w/ P.E. (pwrd fr/unit) | | | | |
| | | | | | MCA | MAX FUSE or HACR BRKR | FLA | DISC. SIZE | LRA | MCA | MAX FUSE or HACR BRKR | FLA | DISC. SIZE | LRA | MCA | MAX FUSE or HACR BRKR | FLA | DISC. SIZE | LRA | MCA | MAX FUSE or HACR BRKR | FLA | DISC. SIZE | LRA |
| 50HCQ09 | STD | NONE | - | - | 46 | 60 | 47 | 236 | 240 | 52 | 53 | 241 | 54 | 60 | 57 | 245 | 60 | 53 | 241 | 54 | 60 | 57 | 245 | |
| | | 117A | 7.8/10.4 | 21.7/25.0 | 73/77 | 72/76 | 258/261 | 76/81 | 80/90 | 77/80 | 262/265 | 77/82 | 263/266 | 81/85 | 80/90 | 82/86 | 267/270 | 80/90 | 78/82 | 263/266 | 81/85 | 80/90 | 82/86 | 267/270 |
| | | 110A | 12.0/16.0 | 33.4/38.5 | 87/94 | 86/92 | 269/275 | 91/97 | 100/100 | 90/96 | 273/279 | 92/98 | 274/280 | 96/101 | 100/100 | 96/101 | 278/284 | 100/110 | 91/97 | 274/280 | 96/101 | 100/110 | 96/101 | 278/284 |
| | | 111A | 18.6/24.8 | 51.7/59.7 | 110/120 | 107/116 | 288/296 | 114/124 | 110/125 | 111/120 | 292/300 | 115/125 | 292/300 | 119/129 | 125/125 | 117/126 | 297/305 | 125/150 | 112/121 | 293/301 | 119/129 | 125/150 | 117/126 | 297/305 |
| | | 112A | 24.0/32.0 | 66.7/77.0 | 129/142 | 124/136 | 303/313 | 133/146 | 150/150 | 129/142 | 307/317 | 134/147 | 308/318 | 138/150 | 150/150 | 134/146 | 312/322 | 150/150 | 129/141 | 309/318 | 138/150 | 150/150 | 134/146 | 312/322 |
| | | 112A+117A | 31.8/42.4 | 88.4/102.0 | 156/173 | 149/165 | 413/440 | 160/177 | 175/200 | 157/173 | 417/444 | 161/178 | 418/445 | 165/182 | 175/200 | 159/174 | 422/449 | 175/200 | 154/170 | 418/445 | 165/182 | 175/200 | 159/174 | 422/449 |
| | MED | NONE | - | - | 49/49 | 51/51 | 278 | 53/52 | 60/60 | 55/55 | 282 | 54/53 | 283 | 57/57 | 60/60 | 61/61 | 287 | 60/60 | 56/56 | 283 | 57/57 | 60/60 | 61/61 | 287 |
| | | 117A | 7.8/10.4 | 21.7/25.0 | 76/80 | 76/80 | 300/303 | 80/84 | 80/90 | 80/84 | 304/307 | 81/85 | 305/308 | 84/89 | 90/90 | 86/89 | 309/312 | 90/90 | 81/85 | 305/308 | 84/89 | 90/90 | 86/89 | 309/312 |
| | | 110A | 12.0/16.0 | 33.4/38.5 | 91/97 | 89/95 | 311/317 | 94/101 | 100/100 | 94/99 | 315/321 | 95/101 | 316/322 | 99/105 | 100/110 | 99/105 | 320/326 | 100/110 | 95/101 | 316/322 | 99/105 | 100/110 | 99/105 | 320/326 |
| | | 111A | 18.6/24.8 | 51.7/59.7 | 113/123 | 110/119 | 330/338 | 117/127 | 125/125 | 115/124 | 334/342 | 118/128 | 335/343 | 122/132 | 125/150 | 120/129 | 339/347 | 125/150 | 116/125 | 335/343 | 122/132 | 125/150 | 120/129 | 339/347 |
| | | 112A | 24.0/32.0 | 66.7/77.0 | 132/145 | 128/139 | 345/355 | 136/149 | 150/150 | 132/144 | 349/359 | 137/150 | 350/360 | 141/154 | 150/150 | 138/149 | 354/364 | 150/150 | 133/145 | 350/360 | 141/154 | 150/150 | 138/149 | 354/364 |
| | | 112A+117A | 31.8/42.4 | 88.4/102.0 | 159/176 | 153/168 | 455/482 | 163/180 | 175/200 | 157/173 | 459/486 | 164/181 | 460/487 | 168/185 | 175/200 | 162/178 | 464/491 | 175/200 | 158/174 | 460/487 | 168/185 | 175/200 | 162/178 | 464/491 |
| 460-3-60 | STD | NONE | - | - | 51 | 60 | 53 | 292 | 296 | 58 | 59 | 297 | 60 | 60 | 63 | 301 | 60 | 58 | 297 | 60 | 60 | 63 | 301 | |
| | | 117A | 7.8/10.4 | 21.7/25.0 | 78/82 | 78/82 | 314/317 | 82/86 | 80/90 | 83/87 | 318/321 | 83/87 | 319/322 | 87/91 | 90/100 | 88/92 | 323/326 | 80/90 | 84/88 | 87/91 | 90/100 | 88/92 | 323/326 | |
| | | 110A | 12.0/16.0 | 33.4/38.5 | 92/98 | 92/98 | 325/331 | 97/103 | 100/100 | 96/102 | 329/335 | 98/104 | 330/336 | 101/108 | 110/110 | 102/108 | 334/340 | 100/110 | 97/103 | 330/336 | 101/108 | 110/110 | 102/108 | 334/340 |
| | | 111A | 18.6/24.8 | 51.7/59.7 | 116/126 | 113/122 | 344/352 | 119/129 | 125/150 | 117/127 | 348/356 | 120/130 | 349/357 | 124/134 | 125/150 | 123/132 | 353/361 | 125/150 | 118/128 | 349/357 | 124/134 | 125/150 | 123/132 | 353/361 |
| | | 112A | 24.0/32.0 | 66.7/77.0 | 134/147 | 130/142 | 359/369 | 138/151 | 150/150 | 135/146 | 363/373 | 139/152 | 364/374 | 143/156 | 150/175 | 140/152 | 368/378 | 150/175 | 136/148 | 364/374 | 143/156 | 150/175 | 140/152 | 368/378 |
| | | 112A+117A | 31.8/42.4 | 88.4/102.0 | 161/178 | 155/171 | 469/496 | 165/182 | 175/200 | 160/175 | 473/500 | 168/183 | 474/501 | 170/187 | 175/200 | 165/181 | 478/505 | 175/200 | 161/176 | 474/501 | 170/187 | 175/200 | 165/181 | 478/505 |
| | MED | NONE | - | - | 21 | 25 | 118 | 23 | 25 | 24 | 120 | 23 | 120 | 25 | 26 | 122 | 26 | 25 | 120 | 25 | 25 | 26 | 122 | |
| | | 116A | 13.9 | 16.7 | 42 | 41 | 135 | 44 | 45 | 43 | 137 | 44 | 137 | 46 | 45 | 139 | 46 | 45 | 137 | 46 | 45 | 139 | | |
| | | 113A | 16.5 | 19.8 | 46 | 45 | 138 | 48 | 50 | 47 | 140 | 48 | 140 | 50 | 50 | 142 | 49 | 50 | 140 | 50 | 50 | 142 | | |
| | | 114A | 27.8 | 33.4 | 63 | 60 | 151 | 65 | 70 | 62 | 153 | 65 | 153 | 67 | 70 | 155 | 65 | 70 | 153 | 67 | 70 | 155 | | |
| | | 115A | 33.0 | 39.7 | 71 | 67 | 158 | 73 | 80 | 69 | 160 | 73 | 160 | 75 | 80 | 162 | 75 | 80 | 160 | 75 | 80 | 162 | | |
| | | 114A+116A | 41.7 | 50.2 | 84 | 79 | 218 | 86 | 90 | 82 | 220 | 86 | 220 | 88 | 90 | 222 | 88 | 90 | 220 | 88 | 90 | 222 | | |
| 575-3-60 | STD | NONE | - | - | 23 | 25 | 139 | 25 | 24 | 141 | 25 | 141 | 27 | 30 | 143 | 28 | 30 | 26 | 141 | 27 | 30 | 143 | | |
| | | 116A | 13.9 | 16.7 | 44 | 43 | 156 | 45 | 45 | 158 | 46 | 158 | 48 | 50 | 160 | 48 | 50 | 158 | 48 | 50 | 160 | | | |
| | | 113A | 16.5 | 19.8 | 47 | 46 | 159 | 49 | 50 | 48 | 161 | 49 | 161 | 51 | 50 | 163 | 51 | 50 | 161 | 51 | 50 | 163 | | |
| | | 114A | 27.8 | 33.4 | 64 | 62 | 172 | 66 | 70 | 64 | 174 | 67 | 174 | 68 | 70 | 176 | 67 | 70 | 174 | 68 | 70 | 176 | | |
| | | 115A | 33.0 | 39.7 | 72 | 69 | 179 | 74 | 80 | 71 | 181 | 75 | 181 | 76 | 80 | 183 | 76 | 80 | 181 | 76 | 80 | 183 | | |
| | | 114A+116A | 41.7 | 50.2 | 85 | 81 | 239 | 88 | 90 | 83 | 241 | 88 | 241 | 91 | 100 | 250 | 88 | 90 | 241 | 91 | 100 | 250 | | |
| | MED | NONE | - | - | 17 | 20 | 97 | 21 | 25 | 22 | 101 | 18 | 101 | 22 | 25 | 103 | 23 | 25 | 99 | 22 | 25 | 103 | | |
| | | 118A | 17.0 | 20.4 | 42 | 41 | 117 | 46 | 50 | 45 | 121 | 44 | 121 | 48 | 50 | 123 | 47 | 50 | 119 | 48 | 50 | 123 | | |
| | | 119A | 34.0 | 40.9 | 68 | 64 | 138 | 72 | 80 | 69 | 142 | 70 | 142 | 73 | 80 | 144 | 70 | 80 | 140 | 73 | 80 | 144 | | |
| | | NONE | - | - | 18 | 20 | 108 | 21 | 25 | 22 | 112 | 19 | 112 | 23 | 25 | 114 | 24 | 25 | 110 | 23 | 25 | 114 | | |
| | | 118A | 17.0 | 20.4 | 43 | 42 | 128 | 47 | 50 | 46 | 132 | 45 | 132 | 49 | 50 | 134 | 48 | 50 | 130 | 49 | 50 | 134 | | |
| | | 119A | 34.0 | 40.9 | 69 | 65 | 149 | 72 | 80 | 69 | 153 | 70 | 153 | 74 | 80 | 155 | 71 | 80 | 151 | 74 | 80 | 155 | | |
| HIGH | NONE | - | - | 18 | 20 | 108 | 21 | 25 | 22 | 112 | 19 | 112 | 23 | 25 | 114 | 24 | 25 | 110 | 23 | 25 | 114 | | | |
| | 118A | 17.0 | 20.4 | 43 | 42 | 128 | 47 | 50 | 46 | 132 | 45 | 132 | 49 | 50 | 134 | 48 | 50 | 130 | 49 | 50 | 134 | | | |
| | 119A | 34.0 | 40.9 | 69 | 65 | 149 | 72 | 80 | 69 | 153 | 70 | 153 | 74 | 80 | 155 | 71 | 80 | 151 | 74 | 80 | 155 | | | |
| | NONE | - | - | 18 | 20 | 108 | 21 | 25 | 22 | 112 | 19 | 112 | 23 | 25 | 114 | 24 | 25 | 110 | 23 | 25 | 114 | | | |
| | 118A | 17.0 | 20.4 | 43 | 42 | 128 | 47 | 50 | 46 | 132 | 45 | 132 | 49 | 50 | 134 | 48 | 50 | 130 | 49 | 50 | 134 | | | |
| | 119A | 34.0 | 40.9 | 69 | 65 | 149 | 72 | 80 | 69 | 153 | 70 | 153 | 74 | 80 | 155 | 71 | 80 | 151 | 74 | 80 | 155 | | | |

See: "Legend and Notes for Tables 1 and 2" on page 7.

Table 2 - 50HCQ 08-09 Unit Wire/Fuse or HACR Breaker Sizing Data - 2-Speed Indoor Fan Motor (cont)

| UNIT | ELEC. HTR | | | NO C.O. or UNPWR C.O. | | | | | | | | | | w/ PWRD C.O. | | | | | | | | | | |
|---------|-----------|----------------|-----------|-----------------------|---------|-----------------------|---------|------------|---------|------------------------|-----------------------|---------|------------|--------------|---------|-----------------------|---------|------------|---------|------------------------|-----------------------|---------|------------|---------|
| | IFM TYPE | CRHEATER***A00 | Nom (kW) | FLA | NO RE. | | | | | w/ P.E. (pwrd fr/unit) | | | | | NO RE. | | | | | w/ P.E. (pwrd fr/unit) | | | | |
| | | | | | MCA | MAX FUSE or HACR BRKR | FLA | DISC. SIZE | LRA | MCA | MAX FUSE or HACR BRKR | FLA | DISC. SIZE | LRA | MCA | MAX FUSE or HACR BRKR | FLA | DISC. SIZE | LRA | MCA | MAX FUSE or HACR BRKR | FLA | DISC. SIZE | LRA |
| 50HCQ09 | STD | NONE | - | - | 47/47 | 60/60 | 49/49 | 233 | 51/51 | 60/60 | 54/53 | 237 | 52/52 | 60/60 | 55/55 | 238 | 56/56 | 60/60 | 59/59 | 242 | 60/60 | 59/59 | 242 | |
| | | 117A | 7.8/10.4 | 21.7/25.0 | 75/78 | 80/80 | 74/78 | 255/258 | 78/82 | 80/90 | 79/82 | 259/262 | 79/83 | 80/90 | 80/83 | 260/263 | 83/87 | 80/90 | 84/88 | 264/267 | 80/90 | 84/88 | 264/267 | |
| | | 110A | 12.0/16.0 | 33.4/38.5 | 89/95 | 90/100 | 88/93 | 266/272 | 93/99 | 100/100 | 92/98 | 270/276 | 94/100 | 100/100 | 100/100 | 93/99 | 271/277 | 98/104 | 100/110 | 98/103 | 275/281 | 100/110 | 98/103 | 275/281 |
| | | 111A | 18.6/24.8 | 51.7/59.7 | 112/122 | 125/125 | 109/118 | 285/293 | 116/126 | 125/150 | 113/122 | 289/297 | 117/127 | 125/150 | 125/150 | 114/123 | 290/298 | 121/130 | 125/150 | 119/128 | 294/302 | 125/150 | 119/128 | 294/302 |
| | | 112A | 24.0/32.0 | 66.7/77.0 | 131/143 | 150/150 | 126/138 | 300/310 | 135/147 | 150/150 | 131/142 | 304/314 | 136/148 | 150/150 | 132/143 | 305/315 | 139/148 | 139/148 | 150/175 | 136/148 | 309/319 | 150/175 | 136/148 | 309/319 |
| | | 112A+117A | 31.8/42.4 | 88.4/102.0 | 158/175 | 175/175 | 151/166 | 410/437 | 162/178 | 175/200 | 155/171 | 414/441 | 163/179 | 175/200 | 157/172 | 415/442 | 167/183 | 175/200 | 161/176 | 419/446 | 175/200 | 161/176 | 419/446 | |
| | MED | NONE | - | - | 49/48 | 60/60 | 51/50 | 259 | 53/52 | 60/60 | 56/55 | 263 | 54/53 | 60/60 | 57/56 | 264 | 58/57 | 60/60 | 61/60 | 268 | 60/60 | 61/60 | 268 | |
| | | 117A | 7.8/10.4 | 21.7/25.0 | 76/79 | 80/80 | 76/79 | 281/284 | 80/83 | 80/90 | 81/83 | 285/288 | 81/84 | 80/90 | 82/85 | 286/289 | 85/88 | 80/90 | 86/89 | 290/293 | 80/90 | 86/89 | 290/293 | |
| | | 110A | 12.0/16.0 | 33.4/38.5 | 91/96 | 100/100 | 90/95 | 292/298 | 95/100 | 100/100 | 94/99 | 296/302 | 96/101 | 100/110 | 95/100 | 297/303 | 99/105 | 100/110 | 99/104 | 301/307 | 100/110 | 99/104 | 301/307 | |
| | | 111A | 18.6/24.8 | 51.7/59.7 | 114/123 | 125/125 | 111/119 | 311/319 | 117/127 | 125/150 | 115/123 | 315/323 | 118/128 | 125/150 | 116/124 | 316/324 | 122/131 | 125/150 | 121/129 | 320/328 | 125/150 | 121/129 | 320/328 | |
| | | 112A | 24.0/32.0 | 66.7/77.0 | 132/144 | 150/150 | 128/139 | 326/336 | 136/148 | 150/150 | 132/143 | 330/340 | 137/149 | 150/150 | 133/144 | 331/341 | 141/153 | 150/175 | 138/149 | 335/345 | 150/175 | 138/149 | 335/345 | |
| | | 112A+117A | 31.8/42.4 | 88.4/102.0 | 159/176 | 175/200 | 153/168 | 436/463 | 163/179 | 175/200 | 157/172 | 440/467 | 164/180 | 175/200 | 158/173 | 441/468 | 168/184 | 175/200 | 163/177 | 445/472 | 175/200 | 163/177 | 445/472 | |
| 50HCQ09 | HIGH | NONE | - | - | 51/50 | 60/60 | 54/53 | 283 | 55/54 | 60/60 | 58/57 | 287 | 58/55 | 60/60 | 59/58 | 288 | 60/59 | 70/70 | 292 | 60/60 | 70/70 | 292 | | |
| | | 117A | 7.8/10.4 | 21.7/25.0 | 78/81 | 80/90 | 79/81 | 305/308 | 82/85 | 90/90 | 83/86 | 309/312 | 83/86 | 90/90 | 84/87 | 310/313 | 87/90 | 89/91 | 314/317 | 90/90 | 89/91 | 314/317 | | |
| | | 110A | 12.0/16.0 | 33.4/38.5 | 92/97 | 100/100 | 92/97 | 316/322 | 97/102 | 100/110 | 96/101 | 320/326 | 98/103 | 100/110 | 98/102 | 321/327 | 102/107 | 110/110 | 102/107 | 325/331 | 110/110 | 102/107 | 325/331 | |
| | | 111A | 18.6/24.8 | 51.7/59.7 | 116/125 | 125/125 | 113/121 | 335/343 | 120/129 | 125/150 | 118/126 | 339/347 | 121/130 | 125/150 | 119/127 | 340/348 | 124/133 | 134/143 | 123/131 | 344/352 | 125/150 | 123/131 | 344/352 | |
| | | 112A | 24.0/32.0 | 66.7/77.0 | 135/146 | 150/150 | 130/141 | 350/360 | 138/150 | 150/150 | 135/145 | 354/364 | 139/151 | 150/175 | 136/147 | 355/365 | 143/155 | 150/175 | 140/151 | 359/369 | 150/175 | 140/151 | 359/369 | |
| | | 112A+117A | 31.8/42.4 | 88.4/102.0 | 162/178 | 175/200 | 155/170 | 460/487 | 165/181 | 175/200 | 160/174 | 464/491 | 168/182 | 175/200 | 161/175 | 465/492 | 170/186 | 175/200 | 165/180 | 469/496 | 175/200 | 165/180 | 469/496 | |
| | STD | NONE | - | - | 22 | 25 | 23 | 117 | 24 | 30 | 25 | 119 | 24 | 30 | 25 | 119 | 26 | 30 | 27 | 121 | 30 | 27 | 121 | |
| | | 116A | 13.9 | 16.7 | 43 | 45 | 42 | 134 | 45 | 45 | 44 | 136 | 45 | 45 | 44 | 136 | 47 | 50 | 46 | 138 | 50 | 46 | 138 | |
| | | 113A | 16.5 | 19.8 | 47 | 50 | 45 | 137 | 48 | 50 | 48 | 139 | 49 | 50 | 48 | 139 | 51 | 60 | 48 | 141 | 60 | 48 | 141 | |
| | | 114A | 27.8 | 33.4 | 64 | 70 | 61 | 150 | 65 | 70 | 63 | 152 | 66 | 70 | 64 | 152 | 68 | 70 | 66 | 154 | 70 | 66 | 154 | |
| | | 115A | 33.0 | 39.7 | 72 | 80 | 68 | 157 | 73 | 80 | 70 | 159 | 74 | 80 | 71 | 159 | 76 | 80 | 73 | 161 | 80 | 73 | 161 | |
| | | 114A+116A | 41.7 | 50.2 | 85 | 90 | 80 | 217 | 86 | 90 | 82 | 219 | 87 | 90 | 83 | 219 | 89 | 90 | 85 | 221 | 90 | 85 | 221 | |
| MED | NONE | - | - | 22 | 25 | 23 | 130 | 24 | 30 | 25 | 132 | 25 | 30 | 26 | 132 | 26 | 30 | 28 | 134 | 30 | 28 | 134 | | |
| | 116A | 13.9 | 16.7 | 43 | 45 | 42 | 147 | 45 | 45 | 44 | 149 | 45 | 45 | 44 | 149 | 47 | 50 | 47 | 151 | 50 | 47 | 151 | | |
| | 113A | 16.5 | 19.8 | 47 | 50 | 46 | 150 | 49 | 50 | 48 | 152 | 49 | 50 | 48 | 152 | 51 | 60 | 50 | 154 | 60 | 50 | 154 | | |
| | 114A | 27.8 | 33.4 | 64 | 70 | 62 | 163 | 66 | 70 | 64 | 165 | 66 | 70 | 64 | 165 | 68 | 70 | 66 | 166 | 70 | 66 | 166 | | |
| | 115A | 33.0 | 39.7 | 72 | 80 | 69 | 170 | 74 | 80 | 71 | 172 | 74 | 80 | 71 | 172 | 76 | 80 | 73 | 174 | 80 | 73 | 174 | | |
| | 114A+116A | 41.7 | 50.2 | 86 | 90 | 82 | 242 | 88 | 90 | 84 | 244 | 88 | 90 | 85 | 244 | 90 | 90 | 87 | 246 | 90 | 87 | 246 | | |
| STD | NONE | - | - | 18 | 20 | 19 | 99 | 22 | 25 | 23 | 103 | 20 | 25 | 21 | 101 | 24 | 25 | 25 | 105 | 25 | 25 | 105 | | |
| | 118A | 17.0 | 20.4 | 44 | 45 | 42 | 119 | 48 | 50 | 47 | 123 | 45 | 45 | 44 | 121 | 49 | 50 | 48 | 125 | 50 | 48 | 125 | | |
| | 119A | 34.0 | 40.9 | 69 | 70 | 66 | 140 | 73 | 80 | 70 | 144 | 71 | 80 | 68 | 142 | 75 | 80 | 72 | 146 | 80 | 72 | 146 | | |
| | NONE | - | - | 19 | 25 | 20 | 108 | 23 | 25 | 24 | 112 | 21 | 25 | 22 | 110 | 25 | 30 | 26 | 114 | 30 | 26 | 114 | | |
| | 118A | 17.0 | 20.4 | 45 | 45 | 43 | 128 | 49 | 50 | 48 | 132 | 46 | 50 | 45 | 130 | 50 | 50 | 50 | 134 | 50 | 50 | 134 | | |
| | 119A | 34.0 | 40.9 | 70 | 70 | 67 | 149 | 74 | 80 | 71 | 153 | 72 | 80 | 69 | 151 | 76 | 80 | 73 | 155 | 80 | 73 | 155 | | |
| HIGH | NONE | - | - | 19 | 25 | 20 | 108 | 23 | 25 | 24 | 112 | 21 | 25 | 22 | 110 | 25 | 30 | 26 | 114 | 30 | 26 | 114 | | |
| | 118A | 17.0 | 20.4 | 45 | 45 | 43 | 128 | 49 | 50 | 48 | 132 | 46 | 50 | 45 | 130 | 50 | 50 | 50 | 134 | 50 | 50 | 134 | | |
| | 119A | 34.0 | 40.9 | 70 | 70 | 67 | 149 | 74 | 80 | 71 | 153 | 72 | 80 | 69 | 151 | 76 | 80 | 73 | 155 | 80 | 73 | 155 | | |
| | NONE | - | - | 19 | 25 | 20 | 108 | 23 | 25 | 24 | 112 | 21 | 25 | 22 | 110 | 25 | 30 | 26 | 114 | 30 | 26 | 114 | | |
| | 118A | 17.0 | 20.4 | 45 | 45 | 43 | 128 | 49 | 50 | 48 | 132 | 46 | 50 | 45 | 130 | 50 | 50 | 50 | 134 | 50 | 50 | 134 | | |
| | 119A | 34.0 | 40.9 | 70 | 70 | 67 | 149 | 74 | 80 | 71 | 153 | 72 | 80 | 69 | 151 | 76 | 80 | 73 | 155 | 80 | 73 | 155 | | |

See: "Legend and Notes for Tables 1 and 2" on page 7.

Legend and Notes for Tables 1 and 2

LEGEND:

| | | |
|----------|---|-----------------------------|
| BRKR | - | Circuit breaker |
| CO | - | Convenience outlet |
| DISC | - | Disconnect |
| FLA | - | Full load amps |
| IFM | - | Indoor fan motor |
| LRA | - | Locked rotor amps |
| MCA | - | Minimum circuit amps |
| MOCP | - | MAX FUSE or HACR Breaker |
| PE | - | Power exhaust |
| PWRD CO | - | Powered convenient outlet |
| UNPWR CO | - | Unpowered convenient outlet |

NOTES:

1. In compliance with NEC requirements for multimotor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be fuse or HACR breaker. Canadian units may be fuse or circuit breaker.

2. Unbalanced 3-Phase Supply Voltage

Never operate a motor where a phase imbalance in supply voltage is greater than 2%. Use the following formula to determine the percentage of voltage imbalance.

$$\% \text{ Voltage Imbalance} = 100 \times \frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$$

Example: Supply voltage is 230-3-60



AB = 224 v
BC = 231 v
AC = 226 v

$$\begin{aligned} \text{Average Voltage} &= \frac{(224 + 231 + 226)}{3} = \frac{681}{3} \\ &= 227 \end{aligned}$$

Determine maximum deviation from average voltage.

$$(AB) 227 - 224 = 3 \text{ v}$$

$$(BC) 231 - 227 = 4 \text{ v}$$

$$(AC) 227 - 226 = 1 \text{ v}$$

Maximum deviation is 4 v.

Determine percent of voltage imbalance.

$$\begin{aligned} \% \text{ Voltage Imbalance} &= 100 \times \frac{4}{227} \\ &= 1.76\% \end{aligned}$$

This amount of phase imbalance is satisfactory as it is below the maximum allowable 2%.

IMPORTANT: If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.

