

Table 2.O PF70 208/240 Volt AC Input Recommended Protection Devices

| Drive Catalog Number     | Frame | HP Rating |      | Input Ratings |      | Output Amps |        |        | Dual Element Time Delay Fuse |         | Non-Time Delay Fuse |         | Circuit Breaker (3) | Motor Circuit Protector (4) | 140M Motor Starter with Adjustable Current Range(5)(6)(7) |              |              |               |
|--------------------------|-------|-----------|------|---------------|------|-------------|--------|--------|------------------------------|---------|---------------------|---------|---------------------|-----------------------------|---|--------------|--------------|---------------|
|                          |       | ND        | HD   | Amps          | kVA  | Cont.       | 1 Min. | 3 Sec. | Min.(1)                      | Max.(2) | Min.(1)             | Max.(2) |                     |                             | Available Catalog Numbers(8)                              |              |              |               |
|                          |       |           |      |               |      |             |        |        |                              |         |                     |         |                     |                             |   |              |              |               |
| <b>208 Volt AC Input</b> |       |           |      |               |      |             |        |        |                              |         |                     |         |                     |                             |   |              |              |               |
| 20AB2P2                  | A     | 0.5       | 0.33 | 2.9           | 1.1  | 2.5         | 2.7    | 3.7    | 6                            | 6       | 6                   | 10      | 15                  | 7                           | 140M-C2E-B40  | 140M-D8E-B40 | -            | -             |
| 20AB4P2                  | A     | 1         | 0.75 | 5.6           | 2    | 4.8         | 5.5    | 7.4    | 10                           | 10      | 10                  | 17.5    | 15                  | 7                           | 140M-C2E-B63  | 140M-D8E-B63 | -            | -             |
| 20AB6P8                  | B     | 2         | 1.5  | 10.0          | 3.6  | 7.8         | 10.3   | 13.8   | 15                           | 15      | 15                  | 30      | 30                  | 15                          | 140M-C2E-C10  | 140M-D8E-C10 | 140M-F8E-C10 | -             |
| 20AB9P6                  | B     | 3         | 2    | 14.0          | 5.1  | 11.0        | 12.1   | 16.5   | 20                           | 25      | 20                  | 40      | 40                  | 30                          | 140M-C2E-C16  | 140M-D8E-C16 | 140M-F8E-C16 | -             |
| 20AB015                  | C     | 5         | 3    | 16.0          | 5.8  | 17.5        | 19.2   | 26.6   | 20                           | 35      | 20                  | 70      | 70                  | 30                          | 140M-C2E-C20  | 140M-D8E-C20 | 140M-F8E-C20 | -             |
| 20AB022                  | D     | 7.5       | 5    | 23.3          | 8.3  | 25.3        | 27.8   | 37.9   | 25                           | 50      | 25                  | 100     | 100                 | 30                          | 140M-C2E-C25  | 140M-D8E-C25 | 140M-F8E-C25 | 140M-CMN-2500 |
| 20AB028                  | D     | 10        | 7.5  | 29.8          | 10.7 | 32.2        | 37.9   | 50.6   | 35                           | 70      | 35                  | 125     | 125                 | 50                          | -   | -            | 140M-F8E-C32 | 140M-CMN-4000 |
| <b>240 Volt AC Input</b> |       |           |      |               |      |             |        |        |                              |         |                     |         |                     |                             |   |              |              |               |
| 20AB2P2                  | A     | 0.5       | 0.33 | 2.5           | 1.1  | 2.2         | 2.4    | 3.3    | 6                            | 4.5     | 6                   | 8       | 15                  | 3                           | 140M-C2E-B25  | 140M-D8E-B25 | -            | -             |
| 20AB4P2                  | A     | 1         | 0.75 | 4.8           | 2    | 4.2         | 4.8    | 6.4    | 10                           | 9       | 10                  | 15      | 15                  | 7                           | 140M-C2E-B63  | 140M-D8E-B63 | -            | -             |
| 20AB6P8                  | B     | 2         | 1.5  | 8.7           | 3.6  | 6.8         | 9      | 12     | 15                           | 15      | 15                  | 25      | 25                  | 15                          | 140M-C2E-C10  | 140M-D8E-C10 | 140M-F8E-C10 | -             |
| 20AB9P6                  | C     | 3         | 2    | 12.2          | 5.1  | 9.6         | 10.6   | 14.4   | 20                           | 20      | 20                  | 35      | 35                  | 15                          | 140M-C2E-C16  | 140M-D8E-C16 | 140M-F8E-C16 | -             |
| 20AB015                  | C     | 5         | 3    | 13.9          | 5.8  | 15.3        | 17.4   | 23.2   | 20                           | 30      | 20                  | 60      | 60                  | 30                          | 140M-C2E-C16  | 140M-D8E-C16 | 140M-F8E-C16 | -             |
| 20AB022                  | D     | 7.5       | 5    | 19.9          | 8.3  | 22          | 24.2   | 33     | 25                           | 45      | 25                  | 80      | 80                  | 30                          | 140M-C2E-C20  | 140M-D8E-C20 | 140M-F8E-C20 | -             |
| 20AB028                  | D     | 10        | 7.5  | 25.7          | 10.7 | 28          | 33     | 44     | 35                           | 60      | 35                  | 110     | 110                 | 50                          | -   | -            | 140M-F8E-C32 | 140M-CMN-4000 |

Table 2.P PF70 400/480 Volt AC Input Recommended Protection Devices

| Drive Catalog Number     | Frame | HP Rating |      | Input Ratings |      | Output Amps |        |        | Dual Element Time Delay Fuse |         | Non-Time Delay Fuse |         | Circuit Breaker (3) | Motor Circuit Protector (4) | 140M Motor Starter with Adjustable Current Range(5)(6)(7) |              |              |               |
|--------------------------|-------|-----------|------|---------------|------|-------------|--------|--------|------------------------------|---------|---------------------|---------|---------------------|-----------------------------|---|--------------|--------------|---------------|
|                          |       | ND        | HD   | Amps          | kVA  | Cont.       | 1 Min. | 3 Sec. | Min.(1)                      | Max.(2) | Min.(1)             | Max.(2) |                     |                             | Available Catalog Numbers(8)                              |              |              |               |
|                          |       |           |      |               |      |             |        |        |                              |         |                     |         |                     |                             |   |              |              |               |
| <b>400 Volt AC Input</b> |       |           |      |               |      |             |        |        |                              |         |                     |         |                     |                             |   |              |              |               |
| 20AC1P3                  | A     | 0.37      | 0.25 | 1.6           | 1.1  | 1.3         | 1.4    | 1.9    | 3                            | 3       | 3                   | 5       | 15                  | 3                           | 140M-C2E-B16  | -            | -            | -             |
| 20AC2P1                  | A     | 0.75      | 0.55 | 2.5           | 1.8  | 2.1         | 2.4    | 3.2    | 6                            | 4       | 6                   | 8       | 15                  | 7                           | 140M-C2E-B25  | 140M-D8E-B25 | -            | -             |
| 20AC3P5                  | A     | 1.5       | 1.1  | 4.3           | 3    | 3.5         | 4.5    | 6      | 10                           | 6       | 10                  | 12      | 15                  | 7                           | 140M-C2E-B40  | 140M-D8E-B40 | -            | -             |
| 20AC5P0                  | B     | 2.2       | 1.5  | 6.5           | 4.5  | 5           | 5.5    | 7.5    | 10                           | 10      | 10                  | 20      | 20                  | 15                          | 140M-C2E-C10  | 140M-D8E-C10 | 140M-F8E-C10 | -             |
| 20AC8P7                  | B     | 4         | 3    | 11.3          | 7.8  | 8.7         | 9.9    | 13.2   | 15                           | 17.5    | 15                  | 30      | 30                  | 15                          | 140M-C2E-C16  | 140M-D8E-C16 | 140M-F8E-C16 | -             |
| 20AC011                  | C     | 5.5       | 4    | 11            | 7.6  | 11.5        | 13     | 17.4   | 15                           | 25      | 15                  | 45      | 40                  | 15                          | 140M-C2E-C16  | 140M-D8E-C16 | 140M-F8E-C16 | -             |
| 20AC015                  | C     | 7.5       | 5.5  | 15.1          | 10.4 | 15.4        | 17.2   | 23.1   | 20                           | 30      | 20                  | 60      | 60                  | 20                          | 140M-C2E-C16  | 140M-D8E-C16 | 140M-F8E-C16 | -             |
| 20AC022                  | D     | 11        | 7.5  | 21.9          | 15.2 | 22          | 24.2   | 33     | 25                           | 45      | 25                  | 80      | 80                  | 30                          | 140M-C2E-C25  | 140M-D8E-C25 | 140M-F8E-C25 | 140-CMN-2500  |
| 20AC030                  | D     | 15        | 11   | 30.3          | 21   | 30          | 33     | 45     | 35                           | 60      | 35                  | 120     | 120                 | 50                          | -   | -            | 140M-F8E-C32 | 140M-CMN-4000 |
| <b>480 Volt AC Input</b> |       |           |      |               |      |             |        |        |                              |         |                     |         |                     |                             |   |              |              |               |
| 20AD1P1                  | A     | 0.5       | 0.33 | 1.3           | 1.1  | 1.1         | 1.2    | 1.6    | 3                            | 3       | 3                   | 4       | 15                  | 3                           | 140M-C2E-B16  | -            | -            | -             |
| 20AD2P1                  | A     | 1         | 0.75 | 2.4           | 2    | 2.1         | 2.4    | 3.2    | 6                            | 6       | 6                   | 8       | 15                  | 3                           | 140M-C2E-B25  | 140M-D8E-B25 | -            | -             |
| 20AD3P4                  | A     | 2         | 1.5  | 3.8           | 3.2  | 3.4         | 4.5    | 6      | 10                           | 10      | 10                  | 12      | 15                  | 7                           | 140M-C2E-B40  | 140M-D8E-B40 | -            | -             |
| 20AC5P0                  | B     | 3         | 2    | 5.6           | 4.7  | 5           | 5.5    | 7.5    | 10                           | 10      | 10                  | 20      | 20                  | 15                          | 140M-C2E-C63  | 140M-D8E-C63 | -            | -             |
| 20AD8P0                  | B     | 5         | 3    | 9.8           | 8.4  | 8           | 8.8    | 12     | 15                           | 15      | 15                  | 30      | 30                  | 15                          | 140M-C2E-C10  | 140M-D8E-C10 | 140M-F8E-C10 | -             |
| 20AD011                  | C     | 7.5       | 5    | 9.5           | 7.9  | 11          | 12.1   | 16.5   | 15                           | 20      | 15                  | 40      | 40                  | 15                          | 140M-C2E-C10  | 140M-D8E-C10 | 140M-F8E-C10 | -             |
| 20AD015                  | C     | 10        | 7.5  | 12.5          | 10.4 | 14          | 16.5   | 22     | 20                           | 30      | 20                  | 50      | 50                  | 20                          | 140M-C2E-C16  | 140M-D8E-C16 | 140M-F8E-C16 | -             |
| 20AD022                  | D     | 15        | 10   | 19.9          | 16.6 | 22          | 24.2   | 33     | 25                           | 45      | 25                  | 80      | 80                  | 30                          | 140M-C2E-C20  | 140M-D8E-C20 | 140M-F8E-C20 | -             |
| 20AD027                  | D     | 20        | 15   | 24.8          | 20.6 | 27          | 33     | 44     | 35                           | 60      | 35                  | 100     | 100                 | 50                          | -   | -            | 140M-F8E-C25 | 140M-CMN-2500 |

Table 2.Q PF70 600 Volt AC Input Recommended Protection Devices

| Drive Catalog Number     | Frame | HP Rating |      | Input Ratings |      | Output Amps |        |        | Dual Element Time Delay Fuse |         | Non-Time Delay Fuse |         | Circuit Breaker (3) | Motor Circuit Protector (4) | 140M Motor Starter with Adjustable Current Range(5)(6)(7) |  |  |  |
|--------------------------|-------|-----------|------|---------------|------|-------------|--------|--------|------------------------------|---------|---------------------|---------|---------------------|-----------------------------|---|--|--|--|
|                          |       | ND        | HD   | Amps          | kVA  | Cont.       | 1 Min. | 3 Sec. | Min.(1)                      | Max.(2) | Min.(1)             | Max.(2) |                     |                             | Available Catalog Numbers(8)                              |  |  |  |
|                          |       |           |      |               |      |             |        |        |                              |         |                     |         |                     |                             |   |  |  |  |
| <b>600 Volt AC Input</b> |       |           |      |               |      |             |        |        |                              |         |                     |         |                     |                             |   |  |  |  |
| 20AE0P3                  | A     | 0.5       | 0.33 | 1.3           | 1.3  | 0.9         | 1.1    | 1.4    | 3                            | 3       | 3                   | 3.5     | 15                  | 3                           | Not Applicable  |  |  |  |
| 20AE1P7                  | A     | 1         | 0.75 | 1.9           | 2.0  | 1.7         | 2.0    | 2.6    | 3                            | 3.5     | 3                   | 6       | 15                  | 3                           |   |  |  |  |
| 20AE2P7                  | A     | 2         | 1.5  | 3.0           | 3.1  | 2.7         | 3.6    | 4.8    | 4                            | 6       | 4                   | 10      | 15                  | 7                           |   |  |  |  |
| 20AE3P9                  | B     | 3         | 2    | 4.4           | 4.5  | 3.9         | 4.3    | 5.9    | 6                            | 8       | 6                   | 15      | 15                  | 7                           |   |  |  |  |
| 20AE6P1                  | B     | 5         | 3    | 7.5           | 7.8  | 6.1         | 6.7    | 9.2    | 10                           | 12      | 10                  | 20      | 20                  | 15                          |   |  |  |  |
| 20AE9P0                  | C     | 7.5       | 5    | 7.7           | 8.0  | 9.0         | 9.9    | 13.5   | 10                           | 20      | 10                  | 35      | 35                  | 15                          |   |  |  |  |
| 20AE011                  | C     | 10        | 7.5  | 9.8           | 10.1 | 11.0        | 13.5   | 18.0   | 15                           | 20      | 15                  | 40      | 40                  | 15                          |   |  |  |  |
| 20AE017                  | D     | 15        | 10   | 15.3          | 15.9 | 17.0        | 18.7   | 25.5   | 20                           | 35      | 20                  | 60      | 60                  | 20                          |   |  |  |  |
| 20AE022                  | D     | 20        | 15   | 20.0          | 20.8 | 22.0        | 25.5   | 34.0   | 25                           | 45      | 25                  | 80      | 80                  | 30                          |   |  |  |  |

See page 2-85 for Notes.