



## Starter selection by motor horsepower & voltage

### Maximum UL/CSA ratings, three phase

3

| Motor horsepower    |      |         |      | Complete starter |               | Starter components |              |                        |                        |            |                    |
|---------------------|------|---------|------|------------------|---------------|--------------------|--------------|------------------------|------------------------|------------|--------------------|
| 3-phase, 1800 RPM ① |      |         |      | Catalog number   | List price    | Contactors         |              | Overload relays        |                        |            |                    |
| 200V                | 230V | 460V    | 575V |                  |               | Catalog number     | List price   | Catalog number         | List price             |            |                    |
| —                   | —    | —       | 1/4  | A9S-84C          | <b>\$ 165</b> | A9-30-10-84        | <b>\$ 78</b> | TA25DU0.4 (0.25 – .4)  | <b>\$ 63</b>           |            |                    |
| —                   | —    | 1/4,1/3 | 1/3  | A9S-84D          |               | A9-30-10-84        |              | TA25DU0.63 (0.4 – .63) |                        |            |                    |
| —                   | —    | —       | 1/2  | A9S-84E          |               | A9-30-10-84        |              | TA25DU1.0 (0.63 – 1.0) |                        |            |                    |
| —                   | —    | 1/2     | 3/4  | A9S-84F          |               | A9-30-10-84        |              | TA25DU1.4 (1.0 – 1.4)  |                        |            |                    |
| —                   | —    | 3/4     | —    | A9S-84G          |               | A9-30-10-84        |              | TA25DU1.8 (1.3 – 1.8)  |                        |            |                    |
| —                   | 1/2  | 1       | 1.5  | A9S-84H          |               | A9-30-10-84        |              | TA25DU2.4 (1.7 – 2.4)  |                        |            |                    |
| 1/2                 | —    | 1.5     | 2    | A9S-84J          |               | A9-30-10-84        |              | TA25DU3.1 (2.2 – 3.1)  |                        |            |                    |
| 3/4                 | 3/4  | 2       | —    | A9S-84K          |               | A9-30-10-84        |              | TA25DU4.0 (2.8 – 4.0)  |                        |            |                    |
| —                   | 1    | —       | 3    | A9S-84L          |               | A9-30-10-84        |              | TA25DU5.0 (3.5 – 5.0)  |                        |            |                    |
| 1                   | 1.5  | 3       | 5    | A9S-84M          |               | A9-30-10-84        |              | TA25DU6.5 (4.5 – 6.5)  |                        |            |                    |
| 2                   | 2    | 5       | —    | A9S-84N          |               | A9-30-10-84        |              | TA25DU8.5 (6.0 – 8.5)  |                        |            |                    |
| —                   | —    | —       | 7.5  | A9S-84P          |               | A9-30-10-84        |              | TA25DU11 (7.5 – 11)    |                        |            |                    |
| 3                   | 3    | 7.5     | 10   | A12S-84Q         |               | <b>171</b>         |              | A12-30-10-84           |                        | <b>84</b>  | TA25DU14 (10 – 14) |
| 5                   | 5    | 10      | 15   | A16S-84R         |               | <b>200</b>         |              | A16-30-10-84           |                        | <b>102</b> | TA25DU19 (13 – 19) |
| —                   | 7.5  | 15      | 20   | A26S-84S         |               | <b>294</b>         |              | A26-30-10-84           |                        | <b>183</b> | TA25DU25 (18 – 25) |
| 7.5                 | 10   | 20      | 25   | A26S-84T         |               |                    |              | A26-30-10-84           |                        |            | TA25DU32 (24 – 32) |
| 10                  | 10   | —       | —    | A30S-84B         | <b>365</b>    | A30-30-10-84       | <b>252</b>   | TA42DU32 (22 – 32)     |                        |            |                    |
| —                   | —    | 25      | 30   | A30S-84C         |               |                    |              | TA42DU42 (29 – 42)     |                        |            |                    |
| 10                  | 15   | 30      | 40   | A40S-84C         | <b>423</b>    | A40-30-10-84       | <b>297</b>   | TA42DU42 (29 – 42)     |                        |            |                    |
| 15                  | —    | 40      | 50   | A50S-84D         | <b>458</b>    | A50-30-11-84       | <b>330</b>   | TA75DU52 (36 – 52)     |                        |            |                    |
| —                   | 20   | —       | —    | A50S-84E         |               | A50-30-11-84       |              | TA75DU63 (45 – 63)     |                        |            |                    |
| 20                  | —    | —       | —    | A63S-84F         | <b>522</b>    | A63-30-11-84       | <b>372</b>   | TA75DU80 (60 – 80)     |                        |            |                    |
| —                   | —    | 50      | 60   | A63S-84F         |               | A63-30-11-84       |              |                        |                        |            |                    |
| 25                  | 30   | 60      | 75   | A75S-84F         | <b>563</b>    | A75-30-11-84       | <b>413</b>   |                        |                        |            |                    |
| 30                  | —    | —       | —    | A95S-84A         | <b>735</b>    | A95-30-11-84       | <b>450</b>   | TA110DU90 (65 – 90)    |                        |            |                    |
| —                   | 40   | 75      | 100  | A110S-84B        |               | A110-30-11-84      |              | TA110DU110 (80 – 110)  |                        |            |                    |
| 40                  | —    | —       | —    | A145S-84C        | <b>1315</b>   | A145-30-11-84      | <b>825</b>   | TA200DU135 (100 – 135) |                        |            |                    |
| —                   | 50   | 100     | 125  | A145S-84D        |               |                    |              | TA200DU150 (110 – 150) |                        |            |                    |
| 50                  | 60   | 125     | 150  | A185S-84E        | <b>1730</b>   | A185-30-11-84      | <b>1290</b>  | TA200DU175 (130 – 175) |                        |            |                    |
| 60                  | —    | —       | —    | A210S-84A        | <b>2135</b>   | A210-30-11-84      | <b>1635</b>  | TA450DU185 (130 – 185) |                        |            |                    |
| —                   | 75   | 150     | 200  | A210S-84A        |               |                    |              |                        | TA450DU235 (165 – 235) |            |                    |
| 75                  | —    | —       | —    | A260S-84B        | <b>2740</b>   | A260-30-11-84      | <b>1815</b>  | TA450DU310 (220 – 310) |                        |            |                    |
| —                   | 100  | 200     | 250  | A260S-84C        |               |                    |              |                        |                        |            |                    |
| 100                 | 100  | 250     | 300  | A300S-84C        | <b>2890</b>   | A300-30-11-84      | <b>1875</b>  |                        |                        |            |                    |
| 125                 | 150  | 350     | 400  | A400S-70E5       | <b>4125</b>   | AF400-30-11-70     | <b>3120</b>  | E500DU500 (170 – 500)  |                        |            |                    |
| 150                 | 200  | 400     | 500  | A460S-70E5       | <b>5700</b>   | AF460-30-11-70     | <b>4425</b>  |                        |                        |            |                    |
| 200                 | 250  | 500     | 600  | A580S-70E8       | <b>8346</b>   | AF580-30-11-70     | <b>6900</b>  | E800DU800 (270 – 800)  |                        |            |                    |
| 250                 | 300  | 600     | 700  | A750S-70E8       | <b>8646</b>   | AF750-30-11-70     | <b>7200</b>  |                        |                        |            |                    |

**CAUTION:** The above ratings are based on average motor FLA. Actual FLA on the motor nameplate should be used for overload relay setting.

#### Coil voltage selection

All AC operated catalog numbers include a 120VAC coil. To select other coil voltages, substitute the code from the Coil Voltage Selection Chart for the two digits after the last dash in the catalog number.

Ex.: A 240V coil is required for an A75 starter: A75S-80F

#### D.C. operated starters

If DC operation is required, consult factory.

#### Factory modifications

See page 3.3

#### Coil voltage selection – A9 - A300 ②

| Hz | Cntr type | Volts |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----|-----------|-------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|    |           | 12    | 24 | 48 | 110 | 120 | 125 | 208 | 220 | 240 | 277 | 380 | 415 | 440 | 480 | 500 | 600 |
| 60 | A         |       | 81 | 83 | 84  | 84  |     | 34  | 36  | 80  | 42  |     | 86  | 86  | 51  | 53  | 55  |
| 50 | A         |       | 81 | 83 | 84  |     |     |     |     | 80  |     |     | 85  | 86  |     |     | 55  |

For other voltages, see page 1.26.

#### Coil voltage selection – A400 - A750 ②

| Hz | type | Cntr/Volts |          |           |           |
|----|------|------------|----------|-----------|-----------|
|    |      | 24 - 60    | 48 - 130 | 100 - 250 | 250 - 500 |
| 60 | AF   | 68         | 69       | 70        | 71        |
| 50 | AF   | 68         | 69       | 70        | 71        |
| DC | AF   | 68         | 69       | 70        | 71        |

#### Control transformer voltage selection chart

| Hz    | Type | Volts   |               |               |               |
|-------|------|---------|---------------|---------------|---------------|
|       |      | 208/120 | 230 – 240/120 | 460 – 480/120 | 575 – 600/120 |
| 50/60 | A/AF | 0       | 7             | 8             | 9             |

For other voltages, consult factory.

① For motors with RPM greater or less than 1800 RPM, check full load amp rating on motor nameplate to ensure proper overload protection.  
 ② For AF50 – AF 300 starters, consult factory.