

Soft starters

Altistart 48 soft start - soft stop units

Line voltage 230/415 V

Connection in the motor supply line



ATS 48D17Q



ATS 48C14Q



ATS 48M12Q

| For standard applications | | | | | | |
|---------------------------|-------|------------------------------|-----------------------------|----------------------------------|------------|---------|
| Motor | | Starter 230/415 V - 50/60 Hz | | | | |
| Motor power (1) | | Nominal current (IcL) (2) | Factory setting current (4) | Power dissipated at nominal load | Reference | Weight |
| 230 V | 400 V | A | A | W | | kg |
| kW | kW | | | | | |
| 4 | 7.5 | 17 | 14.8 | 59 | ATS 48D17Q | 4.900 |
| 5.5 | 11 | 22 | 21 | 74 | ATS 48D22Q | 4.900 |
| 7.5 | 15 | 32 | 28.5 | 104 | ATS 48D32Q | 4.900 |
| 9 | 18.5 | 38 | 35 | 116 | ATS 48D38Q | 4.900 |
| 11 | 22 | 47 | 42 | 142 | ATS 48D47Q | 4.900 |
| 15 | 30 | 62 | 57 | 201 | ATS 48D62Q | 8.300 |
| 18.5 | 37 | 75 | 69 | 245 | ATS 48D75Q | 8.300 |
| 22 | 45 | 88 | 81 | 290 | ATS 48D88Q | 8.300 |
| 30 | 55 | 110 | 100 | 322 | ATS 48C11Q | 8.300 |
| 37 | 75 | 140 | 131 | 391 | ATS 48C14Q | 12.400 |
| 45 | 90 | 170 | 162 | 479 | ATS 48C17Q | 12.400 |
| 55 | 110 | 210 | 195 | 580 | ATS 48C21Q | 18.200 |
| 75 | 132 | 250 | 233 | 695 | ATS 48C25Q | 18.200 |
| 90 | 160 | 320 | 285 | 902 | ATS 48C32Q | 18.200 |
| 110 | 220 | 410 | 388 | 1339 | ATS 48C41Q | 51.400 |
| 132 | 250 | 480 | 437 | 1386 | ATS 48C48Q | 51.400 |
| 160 | 315 | 590 | 560 | 1731 | ATS 48C59Q | 51.400 |
| - | 355 | 660 | 605 | 1958 | ATS 48C66Q | 51.400 |
| 220 | 400 | 790 | 675 | 2537 | ATS 48C79Q | 115.000 |
| 250 | 500 | 1000 | 855 | 2865 | ATS 48M10Q | 115.000 |
| 355 | 630 | 1200 | 1045 | 3497 | ATS 48M12Q | 115.000 |

| For severe applications | | | | | | |
|-------------------------|-------|------------------------------|-----------------------------|----------------------------------|------------|---------|
| Motor | | Starter 230/415 V - 50/60 Hz | | | | |
| Motor power (1) | | Nominal current (3) | Factory setting current (4) | Power dissipated at nominal load | Reference | Weight |
| 230 V | 400 V | A | A | W | | kg |
| kW | kW | | | | | |
| 3 | 5.5 | 12 | 14.8 | 46 | ATS 48D17Q | 4.900 |
| 4 | 7.5 | 17 | 21 | 59 | ATS 48D22Q | 4.900 |
| 5.5 | 11 | 22 | 28.5 | 74 | ATS 48D32Q | 4.900 |
| 7.5 | 15 | 32 | 35 | 99 | ATS 48D38Q | 4.900 |
| 9 | 18.5 | 38 | 42 | 116 | ATS 48D47Q | 4.900 |
| 11 | 22 | 47 | 57 | 153 | ATS 48D62Q | 8.300 |
| 15 | 30 | 62 | 69 | 201 | ATS 48D75Q | 8.300 |
| 18.5 | 37 | 75 | 81 | 245 | ATS 48D88Q | 8.300 |
| 22 | 45 | 88 | 100 | 252 | ATS 48C11Q | 8.300 |
| 30 | 55 | 110 | 131 | 306 | ATS 48C14Q | 12.400 |
| 37 | 75 | 140 | 162 | 391 | ATS 48C17Q | 12.400 |
| 45 | 90 | 170 | 195 | 468 | ATS 48C21Q | 18.200 |
| 55 | 110 | 210 | 233 | 580 | ATS 48C25Q | 18.200 |
| 75 | 132 | 250 | 285 | 695 | ATS 48C32Q | 18.200 |
| 90 | 160 | 320 | 388 | 1017 | ATS 48C41Q | 51.400 |
| 110 | 220 | 410 | 437 | 1172 | ATS 48C48Q | 51.400 |
| 132 | 250 | 480 | 560 | 1386 | ATS 48C59Q | 51.400 |
| 160 | 315 | 590 | 605 | 1731 | ATS 48C66Q | 51.400 |
| - | 355 | 660 | 675 | 2073 | ATS 48C79Q | 115.000 |
| 220 | 400 | 790 | 855 | 2225 | ATS 48M10Q | 115.000 |
| 250 | 500 | 1000 | 1045 | 2865 | ATS 48M12Q | 115.000 |

(1) Value indicated on the motor rating plate.

(2) Corresponds to the maximum permanent current in class 10. I_{cL} corresponds to the starter rating.

(3) Corresponds to the maximum permanent current in class 20.

(4) The factory setting current corresponds to the value of the nominal current of a standard 4-pole, 400 V, class 10 motor (standard application). Adjust the settings in accordance with the motor nominal current.

Soft starters

Altistart 48 soft start - soft stop units

Line voltage 230/415 V

Connection to the motor delta terminals

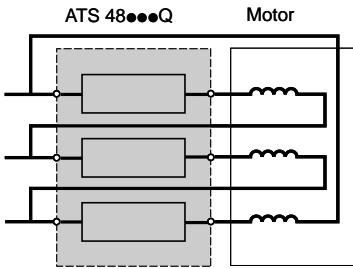


Figure 1
Special use:
starter connected to the motor delta
terminal in series with each winding

For standard applications according to figure 1

| Motor | | Starter 230/415 V - 50/60 Hz | | | | |
|--------------------|-------|------------------------------|--------------------------------------|---|------------|---------|
| Motor power (1) | | Nominal current (2) | Factory setting current (4) | Power dissipated at nominal load | Reference | Weight |
| | 230 V | | | | | |
| kW | kW | A | A | W | | kg |
| 7.5 | 15 | 29 | 14.8 | 59 | ATS 48D17Q | 4.900 |
| 9 | 18.5 | 38 | 21 | 74 | ATS 48D22Q | 4.900 |
| 15 | 22 | 55 | 28.5 | 104 | ATS 48D32Q | 4.900 |
| 18.5 | 30 | 66 | 35 | 116 | ATS 48D38Q | 4.900 |
| 22 | 45 | 81 | 42 | 142 | ATS 48D47Q | 4.900 |
| 30 | 55 | 107 | 57 | 201 | ATS 48D62Q | 8.300 |
| 37 | 55 | 130 | 69 | 245 | ATS 48D75Q | 8.300 |
| 45 | 75 | 152 | 81 | 290 | ATS 48D88Q | 8.300 |
| 55 | 90 | 191 | 100 | 322 | ATS 48C11Q | 8.300 |
| 75 | 110 | 242 | 131 | 391 | ATS 48C14Q | 12.400 |
| 90 | 132 | 294 | 162 | 479 | ATS 48C17Q | 12.400 |
| 110 | 160 | 364 | 195 | 580 | ATS 48C21Q | 18.200 |
| 132 | 220 | 433 | 233 | 695 | ATS 48C25Q | 18.200 |
| 160 | 250 | 554 | 285 | 902 | ATS 48C32Q | 18.200 |
| 220 | 315 | 710 | 388 | 1339 | ATS 48C41Q | 51.400 |
| 250 | 355 | 831 | 437 | 1386 | ATS 48C48Q | 51.400 |
| – | 400 | 1022 | 560 | 1731 | ATS 48C59Q | 51.400 |
| 315 | 500 | 1143 | 605 | 1958 | ATS 48C66Q | 51.400 |
| 355 | 630 | 1368 | 675 | 2537 | ATS 48C79Q | 115.000 |
| – | 710 | 1732 | 855 | 2865 | ATS 48M10Q | 115.000 |
| 500 | – | 2078 | 1045 | 3497 | ATS 48M12Q | 115.000 |

For severe applications according to figure 1

| Motor | | Starter 230/415 V - 50/60 Hz | | | | |
|--------------------|-------|------------------------------|--------------------------------------|---|------------|---------|
| Motor power (1) | | Nominal current (3) | Factory setting current (4) | Power dissipated at nominal load | Reference | Weight |
| | 230 V | | | | | |
| kW | kW | A | A | W | | kg |
| 5.5 | 11 | 22 | 14.8 | 46 | ATS 48D17Q | 4.900 |
| 7.5 | 15 | 29 | 21 | 59 | ATS 48D22Q | 4.900 |
| 9 | 18.5 | 38 | 28.5 | 74 | ATS 48D32Q | 4.900 |
| 15 | 22 | 55 | 35 | 99 | ATS 48D38Q | 4.900 |
| 18.5 | 30 | 66 | 42 | 116 | ATS 48D47Q | 4.900 |
| 22 | 45 | 81 | 57 | 153 | ATS 48D62Q | 8.300 |
| 30 | 55 | 107 | 69 | 201 | ATS 48D75Q | 8.300 |
| 37 | 55 | 130 | 81 | 245 | ATS 48D88Q | 8.300 |
| 45 | 75 | 152 | 100 | 252 | ATS 48C11Q | 8.300 |
| 55 | 90 | 191 | 131 | 306 | ATS 48C14Q | 12.400 |
| 75 | 110 | 242 | 162 | 391 | ATS 48C17Q | 12.400 |
| 90 | 132 | 294 | 195 | 468 | ATS 48C21Q | 18.200 |
| 110 | 160 | 364 | 233 | 580 | ATS 48C25Q | 18.200 |
| 132 | 220 | 433 | 285 | 695 | ATS 48C32Q | 18.200 |
| 160 | 250 | 554 | 388 | 1017 | ATS 48C41Q | 51.400 |
| 220 | 315 | 710 | 437 | 1172 | ATS 48C48Q | 51.400 |
| 250 | 355 | 831 | 560 | 1386 | ATS 48C59Q | 51.400 |
| – | 400 | 1022 | 605 | 1731 | ATS 48C66Q | 51.400 |
| 315 | 500 | 1143 | 675 | 2073 | ATS 48C79Q | 115.000 |
| 355 | 630 | 1368 | 855 | 2225 | ATS 48M10Q | 115.000 |
| – | 710 | 1732 | 1045 | 2865 | ATS 48M12Q | 115.000 |

(1) Value indicated on the motor rating plate.

(2) Corresponds to the maximum permanent current in class 10.

(3) Corresponds to the maximum permanent current in class 20.

(4) For this type of connection, the factory setting current must be adjusted in accordance with the nominal motor current.

Soft starters

Altistart 48 soft start - soft stop units

Line voltage 208/690 V

Motor power in HP



ATS 48D17Y



ATS 48C14Y



ATS 48M12Y

For standard applications

| Motor | | | | | Starter 208/690 V - 50/60 Hz | | | | |
|-----------------|-------|-------|-------|------|------------------------------|-----------------------------|----------------------------------|-----------|--------|
| Motor power (1) | | | | | Nominal current (IcL) (2) | Factory setting current (4) | Power dissipated at nominal load | Reference | Weight |
| 208 V | 230 V | 460 V | 575 V | A | | | | | |
| HP | HP | HP | HP | | | | | | |
| 3 | 5 | 10 | 15 | 17 | 14 | 59 | ATS 48D17Y | 4.900 | |
| 5 | 7.5 | 15 | 20 | 22 | 21 | 74 | ATS 48D22Y | 4.900 | |
| 7.5 | 10 | 20 | 25 | 32 | 27 | 104 | ATS 48D32Y | 4.900 | |
| 10 | – | 25 | 30 | 38 | 34 | 116 | ATS 48D38Y | 4.900 | |
| – | 15 | 30 | 40 | 47 | 40 | 142 | ATS 48D47Y | 4.900 | |
| 15 | 20 | 40 | 50 | 62 | 52 | 201 | ATS 48D62Y | 8.300 | |
| 20 | 25 | 50 | 60 | 75 | 65 | 245 | ATS 48D75Y | 8.300 | |
| 25 | 30 | 60 | 75 | 88 | 77 | 290 | ATS 48D88Y | 8.300 | |
| 30 | 40 | 75 | 100 | 110 | 96 | 322 | ATS 48C11Y | 8.300 | |
| 40 | 50 | 100 | 125 | 140 | 124 | 391 | ATS 48C14Y | 12.400 | |
| 50 | 60 | 125 | 150 | 170 | 156 | 479 | ATS 48C17Y | 12.400 | |
| 60 | 75 | 150 | 200 | 210 | 180 | 580 | ATS 48C21Y | 18.200 | |
| 75 | 100 | 200 | 250 | 250 | 240 | 695 | ATS 48C25Y | 18.200 | |
| 100 | 125 | 250 | 300 | 320 | 302 | 902 | ATS 48C32Y | 18.200 | |
| 125 | 150 | 300 | 350 | 410 | 361 | 1339 | ATS 48C41Y | 51.400 | |
| 150 | – | 350 | 400 | 480 | 414 | 1386 | ATS 48C48Y | 51.400 | |
| – | 200 | 400 | 500 | 590 | 477 | 1731 | ATS 48C59Y | 51.400 | |
| 200 | 250 | 500 | 600 | 660 | 590 | 1958 | ATS 48C66Y | 51.400 | |
| 250 | 300 | 600 | 800 | 790 | 720 | 2537 | ATS 48C79Y | 115.000 | |
| 350 | 350 | 800 | 1000 | 1000 | 954 | 2865 | ATS 48M10Y | 115.000 | |
| 400 | 450 | 1000 | 1200 | 1200 | 1170 | 3497 | ATS 48M12Y | 115.000 | |

For severe applications

| Motor | | | | | Starter 208/690 V - 50/60 Hz | | | | |
|-----------------|-------|-------|-------|------|------------------------------|-----------------------------|----------------------------------|-----------|--------|
| Motor power (1) | | | | | Nominal current (3) | Factory setting current (4) | Power dissipated at nominal load | Reference | Weight |
| 208 V | 230 V | 460 V | 575 V | A | | | | | |
| HP | HP | HP | HP | | | | | | |
| 2 | 3 | 7.5 | 10 | 12 | 14 | 46 | ATS 48D17Y | 4.900 | |
| 3 | 5 | 10 | 15 | 17 | 21 | 59 | ATS 48D22Y | 4.900 | |
| 5 | 7.5 | 15 | 20 | 22 | 27 | 74 | ATS 48D32Y | 4.900 | |
| 7.5 | 10 | 20 | 25 | 32 | 34 | 99 | ATS 48D38Y | 4.900 | |
| 10 | – | 25 | 30 | 38 | 40 | 116 | ATS 48D47Y | 4.900 | |
| – | 15 | 30 | 40 | 47 | 52 | 153 | ATS 48D62Y | 8.300 | |
| 15 | 20 | 40 | 50 | 62 | 65 | 201 | ATS 48D75Y | 8.300 | |
| 20 | 25 | 50 | 60 | 75 | 77 | 245 | ATS 48D88Y | 8.300 | |
| 25 | 30 | 60 | 75 | 88 | 96 | 252 | ATS 48C11Y | 8.300 | |
| 30 | 40 | 75 | 100 | 110 | 124 | 306 | ATS 48C14Y | 12.400 | |
| 40 | 50 | 100 | 125 | 140 | 156 | 391 | ATS 48C17Y | 12.400 | |
| 50 | 60 | 125 | 150 | 170 | 180 | 468 | ATS 48C21Y | 18.200 | |
| 60 | 75 | 150 | 200 | 210 | 240 | 580 | ATS 48C25Y | 18.200 | |
| 75 | 100 | 200 | 250 | 250 | 302 | 695 | ATS 48C32Y | 18.200 | |
| 100 | 125 | 250 | 300 | 320 | 361 | 1017 | ATS 48C41Y | 51.400 | |
| 125 | 150 | 300 | 350 | 410 | 414 | 1172 | ATS 48C48Y | 51.400 | |
| 150 | – | 350 | 400 | 480 | 477 | 1386 | ATS 48C59Y | 51.400 | |
| – | 200 | 400 | 500 | 590 | 590 | 1731 | ATS 48C66Y | 51.400 | |
| 200 | 250 | 500 | 600 | 660 | 720 | 2073 | ATS 48C79Y | 115.000 | |
| 250 | 300 | 600 | 800 | 790 | 954 | 2225 | ATS 48M10Y | 115.000 | |
| 350 | 350 | 800 | 1000 | 1000 | 1170 | 2865 | ATS 48M12Y | 115.000 | |

(1) Value indicated on the motor rating plate.

(2) Corresponds to the maximum permanent current in class 10. I_{cL} corresponds to the starter rating.

(3) Corresponds to the maximum permanent current in class 20.

(4) The factory setting current corresponds to the value of the nominal current of a standard motor according to NEC, 460 V, class 10 (standard application). Adjust the settings in accordance with the motor nominal current.

Soft starters

Altistart 48 soft start - soft stop units

Line voltage 208/690 V

Motor power in kW

| For standard applications | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|-------|-------|------------------------------|-----------------------------|----------------------------------|------------|---------|
| Motor | | | | | | | Starter 208/690 V - 50/60 Hz | | | | |
| Motor power (1) | | | | | | | Nominal current (IcL) (2) | Factory setting current (4) | Power dissipated at nominal load | Reference | Weight |
| 230 V | 400 V | 440 V | 500 V | 525 V | 660 V | 690 V | | | | | |
| kW | kW | kW | kW | kW | kW | kW | | | | | |
| 4 | 7.5 | 7.5 | 9 | 9 | 11 | 15 | 17 | 14 | 59 | ATS 48D17Y | 4.900 |
| 5.5 | 11 | 11 | 11 | 11 | 15 | 18.5 | 22 | 21 | 74 | ATS 48D22Y | 4.900 |
| 7.5 | 15 | 15 | 18.5 | 18.5 | 22 | 22 | 32 | 27 | 104 | ATS 48D32Y | 4.900 |
| 9 | 18.5 | 18.5 | 22 | 22 | 30 | 30 | 38 | 34 | 116 | ATS 48D38Y | 4.900 |
| 11 | 22 | 22 | 30 | 30 | 37 | 37 | 47 | 40 | 142 | ATS 48D47Y | 4.900 |
| 15 | 30 | 30 | 37 | 37 | 45 | 45 | 62 | 52 | 201 | ATS 48D62Y | 8.300 |
| 18.5 | 37 | 37 | 45 | 45 | 55 | 55 | 75 | 65 | 245 | ATS 48D75Y | 8.300 |
| 22 | 45 | 45 | 55 | 55 | 75 | 75 | 88 | 77 | 290 | ATS 48D88Y | 8.300 |
| 30 | 55 | 55 | 75 | 75 | 90 | 90 | 110 | 96 | 322 | ATS 48C11Y | 8.300 |
| 37 | 75 | 75 | 90 | 90 | 110 | 110 | 140 | 124 | 391 | ATS 48C14Y | 12.400 |
| 45 | 90 | 90 | 110 | 110 | 132 | 160 | 170 | 156 | 479 | ATS 48D17Y | 12.400 |
| 55 | 110 | 110 | 132 | 132 | 160 | 200 | 210 | 180 | 580 | ATS 48C21Y | 18.200 |
| 75 | 132 | 132 | 160 | 160 | 220 | 250 | 250 | 240 | 695 | ATS 48C25Y | 18.200 |
| 90 | 160 | 160 | 220 | 220 | 250 | 315 | 320 | 302 | 902 | ATS 48C32Y | 18.200 |
| 110 | 220 | 220 | 250 | 250 | 355 | 400 | 410 | 361 | 1339 | ATS 48C41Y | 51.400 |
| 132 | 250 | 250 | 315 | 315 | 400 | 500 | 480 | 414 | 1386 | ATS 48C48Y | 51.400 |
| 160 | 315 | 355 | 400 | 400 | 560 | 560 | 590 | 477 | 1731 | ATS 48C59Y | 51.400 |
| - | 355 | 400 | - | - | 630 | 630 | 660 | 590 | 1958 | ATS 48C66Y | 51.400 |
| 220 | 400 | 500 | 500 | 500 | 710 | 710 | 790 | 720 | 2537 | ATS 48C79Y | 115.000 |
| 250 | 500 | 630 | 630 | 630 | 900 | 900 | 1000 | 954 | 2865 | ATS 48M10Y | 115.000 |
| 355 | 630 | 710 | 800 | 800 | - | - | 1200 | 1170 | 3497 | ATS 48M12Y | 115.000 |

| For severe applications | | | | | | | | | | | |
|-------------------------|-------|-------|-------|-------|-------|-------|------------------------------|-----------------------------|----------------------------------|------------|---------|
| Motor | | | | | | | Starter 208/690 V - 50/60 Hz | | | | |
| Motor power (1) | | | | | | | Nominal current (3) | Factory setting current (4) | Power dissipated at nominal load | Reference | Weight |
| 230 V | 400 V | 440 V | 500 V | 525 V | 660 V | 690 V | | | | | |
| kW | kW | kW | kW | kW | kW | kW | | | | | |
| 3 | 5.5 | 5.5 | 7.5 | 7.5 | 9 | 11 | 12 | 14 | 46 | ATS 48D17Y | 4.900 |
| 4 | 7.5 | 7.5 | 9 | 9 | 11 | 15 | 17 | 21 | 59 | ATS 48D22Y | 4.900 |
| 5.5 | 11 | 11 | 11 | 11 | 15 | 18.5 | 22 | 27 | 74 | ATS 48D32Y | 4.900 |
| 7.5 | 15 | 15 | 18.5 | 18.5 | 22 | 22 | 32 | 34 | 99 | ATS 48D38Y | 4.900 |
| 9 | 18.5 | 18.5 | 22 | 22 | 30 | 30 | 38 | 40 | 116 | ATS 48D47Y | 4.900 |
| 11 | 22 | 22 | 30 | 30 | 37 | 37 | 47 | 52 | 153 | ATS 48D62Y | 8.300 |
| 15 | 30 | 30 | 37 | 37 | 45 | 45 | 62 | 65 | 201 | ATS 48D75Y | 8.300 |
| 18.5 | 37 | 37 | 45 | 45 | 55 | 55 | 75 | 77 | 245 | ATS 48D88Y | 8.300 |
| 22 | 45 | 45 | 55 | 55 | 75 | 75 | 88 | 96 | 252 | ATS 48C11Y | 8.300 |
| 30 | 55 | 55 | 75 | 75 | 90 | 90 | 110 | 124 | 306 | ATS 48C14Y | 12.400 |
| 37 | 75 | 75 | 90 | 90 | 110 | 110 | 140 | 156 | 391 | ATS 48C17Y | 12.400 |
| 45 | 90 | 90 | 110 | 110 | 132 | 160 | 170 | 180 | 468 | ATS 48C21Y | 18.200 |
| 55 | 110 | 110 | 132 | 132 | 160 | 200 | 210 | 240 | 580 | ATS 48C25Y | 18.200 |
| 75 | 132 | 132 | 160 | 160 | 220 | 250 | 250 | 302 | 695 | ATS 48C32Y | 18.200 |
| 90 | 160 | 160 | 220 | 220 | 250 | 315 | 320 | 361 | 1017 | ATS 48C41Y | 51.400 |
| 110 | 220 | 220 | 250 | 250 | 355 | 400 | 410 | 414 | 1172 | ATS 48C48Y | 51.400 |
| 132 | 250 | 250 | 315 | 315 | 400 | 500 | 480 | 477 | 1386 | ATS 48C59Y | 51.400 |
| 160 | 315 | 355 | 400 | 400 | 560 | 560 | 590 | 590 | 1731 | ATS 48C66Y | 51.400 |
| - | 355 | 400 | - | - | 630 | 630 | 660 | 720 | 2073 | ATS 48C79Y | 115.000 |
| 220 | 400 | 500 | 500 | 500 | 710 | 710 | 790 | 954 | 2225 | ATS 48M10Y | 115.000 |
| 250 | 500 | 630 | 630 | 630 | 900 | 900 | 1000 | 1170 | 2865 | ATS 48M12Y | 115.000 |

(1) Value indicated on the motor rating plate.

(2) Corresponds to the maximum permanent current in class 10. IcL corresponds to the starter rating.

(3) Corresponds to the maximum permanent current in class 20.

(4) The factory setting current corresponds to the value of the nominal current of a standard motor according to NEC, 460 V, class 10 (standard application). Adjust the settings in accordance with the motor nominal current.