

## 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				Reference	Weight
Motor power (1)		Nominal current (l <sub>cL</sub> ) (2)	Factory setting current (4)	Power dissipated at nominal load	kg		
230 V	400 V	A	A	W			
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				Reference	Weight
Motor power (1)		Nominal current (3)	Factory setting current (4)	Power dissipated at nominal load	kg		
230 V	400 V	A	A	W			
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<sub>cL</sub> 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

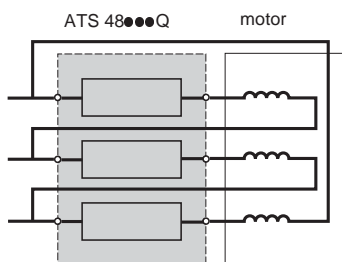


Figure 1

**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	400 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	400 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	HP					
HP	HP	HP	HP	A	A	W		kg	
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	HP					
HP	HP	HP	HP	A	A	W		kg	
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<sub>cL</sub> 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							Starter 208/690 V - 50/60 Hz				
Motor							Nominal current (IcL) (2)	Factory setting current (4)	Power dissipated at nominal load	Reference	Weight
Motor power (1)											
230 V	400 V	440 V	500 V	525 V	660 V	690 V	A	A	W		kg
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 48C17Y	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							Starter 208/690 V - 50/60 Hz				
Motor							Nominal current (3)	Factory setting current (4)	Power dissipated at nominal load	Reference	Weight
Motor power (1)											
230 V	400 V	440 V	500 V	525 V	660 V	690 V	A	A	W		kg
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.