

VLT® Soft Start Controller MCD 100

VLT® Soft Start Controller MCD 100

The VLT Soft Start Controller MCD 100 is a very compact soft starter in the power range up to 15 kW. The MCD 100 is easy to install and operate, making the MCD 100 a real fit-and-forget product.



Application	Soft start, soft stop
Power range	0,7 - 15 kW
Supply voltage	3 phase 208-600V 50/60 Hz
Control voltage	24-480 Vac/Vdc
Acceleration time	0-10 sec. (adjustable)
Deceleration time	0-10 sec. (adjustable)
Initial torque	Adjustable up to 85%
Enclosure	IP20
Inputs	Digital input for start- and stop command
Protection	Missing phase, thermic motor protection (thermistor)
Control	Potentiometers on front panel
Env. temperature	max. 40-60 degr. C (depending on model and load)
Approval	CE (EN60947-4-2), C-UL (CUL 508)

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VLTR® Soft Start Controller MCD100

MCD100 - 3x 208-600V

Type	Pnom.	Control voltage	Max. FLC	Supply voltage	Article nr.	Price GBP
MCD100-001	0,7 kW	24-480 Vac/dc	3A	208-240 Vac	175G4000	115
MCD100-001	1,5 kW	24-480 Vac/dc	3 A	400-415 Vac	175G4001	115
MCD100-001	1,5 kW	24-480 Vac/dc	3 A	440-480 Vac	175G4002	135
MCD100-001	2,2 kW	24-480 Vac/dc	3 A	550-600 Vac	175G4003	135
MCD100-007	4 kW	24-480 Vac/dc	15 A	208-240 Vac	175G4004	159
MCD100-007	7,5 kW	24-480 Vac/dc	15 A	400-480 Vac	175G4005	159
MCD100-007	7,5 kW	24-480 Vac/dc	15 A	500-600 Vac	175G4006	192
MCD100-011	7,5 kW	24-480 Vac/dc	25 A	208-240 Vac	175G4007	238
MCD100-011	11 kW	24-480 Vac/dc	25 A	400-480 Vac	175G4008	238
MCD100-011	15 kW	24-480 Vac/dc	25 A	500-600 Vac	175G4009	284

Dimensions	Hight mm	Width mm	Depth mm
MCD100-001	102	22,5	128
MCD100-007	110	45	128
MCD100-011	110	90	128

VLT® Compact Starter MCD 200

VLT® Compact Starter MCD 200

With the VLT Compact Starter MCD 200 Danfoss fills the gap between the simple analog soft starters and the expensive digital soft starters. Apart from a smooth start and stop, the MCD 200 offers a number of powerful extra functions.



Application	Soft start, soft stop
Powerrange	7.5 - 110 kW
Control principle	MCD 201 based on voltage MCD 202 based on current
Supply voltage	3 phase 200-440V 3 phase 200-575V
Control voltage	100-240 Vac / 380-440 Vac 24 Vac/Vdc
Acceleration time	2-20 sec. (adjustable)
Deceleration time	2-20 sec. (adjustable)
Initial torque	Adjustable 30-75%
Enclosure	IP00, IP20
Inputs	Digital input for start- and stopcommand
Outputs	1 relay (MCD 201). 2 relays (MCD 202)
Special functions	Internal bypass relay Motor protection functions (MCD 202)
Control	Potentiometers and switches behind frontpanel LED indication (Ready, Fault, Run) on frontpanel Optional remote display
Communication	Profibus, DeviceNet, Modbus RTU, AS-i
Env. temperature	max. 60 degr. C
Approval	CE, UL, C-UL, CCC, C-tick

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VLT® Compact Starter MCD200

MCD201 - 3x 200-440V

110-240V/380-440V	Pnom.	Max. load	Article nr.	Price GBP
MCD201-007-T4-CV3 (IP20)	7,5 kW	18A AC53b 4-6:354/16A AC53b 4-20:340	175G5165	258
MCD201-015-T4-CV3 (IP20)	15 kW	34A AC53b 4-6:354/31A AC53b 4-20:340	175G5166	284
MCD201-018-T4-CV3 (IP20)	18,5 kW	42A AC53b 4-6:354/37A AC53b 4-20:340	175G5167	303
MCD201-022-T4-CV3 (IP20)	22 kW	48A AC53b 4-6:354/46A AC53b 4-20:340	175G5168	329
MCD201-030-T4-CV3 (IP20)	30 kW	60A AC53b 4-6:354/48A AC53b 4-20:340	175G5169	385
MCD201-037-T4-CV3 (IP20)	37 kW	75A AC53b 4-6:594/67A AC53b 4-20:580	175G5170	463
MCD201-045-T4-CV3 (IP20)	45 kW	85A AC53b 4-6:594/72A AC53b 4-20:580	175G5171	571
MCD201-055-T4-CV3 (IP20)	55 kW	100A AC53b 4-6:594/92A AC53b 4-20:580	175G5172	587
MCD201-075-T4-CV3 (IP00)	75 kW	140A AC53b 4-6:594/116A AC53b 4-20:580	175G5173	736
MCD201-090-T4-CV3 (IP00)	90 kW	170A AC53b 4-6:594/138A AC53b 4-20:580	175G5174	972
MCD201-110-T4-CV3 (IP00)	110 kW	200A AC53b 4-6:594/160A AC53b 4-20:580	175G5175	1057

24 V ac/dc	Pnom.	Max. load	Article nr.	Price GBP
MCD201-007-T4-CV1 (IP20)	7,5 kW	18A AC53b 4-6:354/16A AC53b 4-20:340	175G5176	258
MCD201-015-T4-CV1 (IP20)	15 kW	34A AC53b 4-6:354/31A AC53b 4-20:340	175G5177	284
MCD201-018-T4-CV1 (IP20)	18,5 kW	42A AC53b 4-6:354/37A AC53b 4-20:340	175G5178	303
MCD201-022-T4-CV1 (IP20)	22 kW	48A AC53b 4-6:354/46A AC53b 4-20:340	175G5179	329
MCD201-030-T4-CV1 (IP20)	30 kW	60A AC53b 4-6:354/48A AC53b 4-20:340	175G5180	385
MCD201-037-T4-CV1 (IP20)	37 kW	75A AC53b 4-6:594/67A AC53b 4-20:580	175G5181	463
MCD201-045-T4-CV1 (IP20)	45 kW	85A AC53b 4-6:594/72A AC53b 4-20:580	175G5182	571
MCD201-055-T4-CV1 (IP20)	55 kW	100A AC53b 4-6:594/92A AC53b 4-20:580	175G5183	587
MCD201-075-T4-CV1 (IP00)	75 kW	140A AC53b 4-6:594/116A AC53b 4-20:580	175G5184	736
MCD201-090-T4-CV1 (IP00)	90 kW	170A AC53b 4-6:594/138A AC53b 4-20:580	175G5185	972
MCD201-110-T4-CV1 (IP00)	110 kW	200A AC53b 4-6:594/160A AC53b 4-20:580	175G5186	1057

Dimensions	A	B	C	Weight
7 - 30 kW	203	98	163	2,2 kg
37 - 55 kW	215	145	191	4 kg
75 - 110 kW	240	202	212	6,1 kg

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VLT® Compact Starter MCD200

MCD201 - 3x 200-575V

110-240V/380-440V	Pnom.	Max. load	Article nr.	Price GBP
MCD201-007-T6-CV3 (IP20)	7,5 kW	18A AC53b 4-6:354/16A AC53b 4-20:340	175G5187	299
MCD201-015-T6-CV3 (IP20)	15 kW	34A AC53b 4-6:354/31A AC53b 4-20:340	175G5188	329
MCD201-018-T6-CV3 (IP20)	18,5 kW	42A AC53b 4-6:354/37A AC53b 4-20:340	175G5189	350
MCD201-022-T6-CV3 (IP20)	22 kW	48A AC53b 4-6:354/46A AC53b 4-20:340	175G5190	378
MCD201-030-T6-CV3 (IP20)	30 kW	60A AC53b 4-6:354/48A AC53b 4-20:340	175G5191	445
MCD201-037-T6-CV3 (IP20)	37 kW	75A AC53b 4-6:594/67A AC53b 4-20:580	175G5192	534
MCD201-045-T6-CV3 (IP20)	45 kW	85A AC53b 4-6:594/72A AC53b 4-20:580	175G5193	659
MCD201-055-T6-CV3 (IP20)	55 kW	100A AC53b 4-6:594/92A AC53b 4-20:580	175G5194	677
MCD201-075-T6-CV3 (IP00)	75 kW	140A AC53b 4-6:594/116A AC53b 4-20:580	175G5195	819
MCD201-090-T6-CV3 (IP00)	90 kW	170A AC53b 4-6:594/138A AC53b 4-20:580	175G5196	1120
MCD201-110-T6-CV3 (IP00)	110 kW	200A AC53b 4-6:594/160A AC53b 4-20:580	175G5197	1216

24 V ac/dc	Pnom.	Max. load	Article nr.	Price GBP
MCD201-007-T6-CV1 (IP20)	7,5 kW	18A AC53b 4-6:354/16A AC53b 4-20:340	175G5198	299
MCD201-015-T6-CV1 (IP20)	15 kW	34A AC53b 4-6:354/31A AC53b 4-20:340	175G5199	329
MCD201-018-T6-CV1 (IP20)	18,5 kW	42A AC53b 4-6:354/37A AC53b 4-20:340	175G5200	350
MCD201-022-T6-CV1 (IP20)	22 kW	48A AC53b 4-6:354/46A AC53b 4-20:340	175G5201	378
MCD201-030-T6-CV1 (IP20)	30 kW	60A AC53b 4-6:354/48A AC53b 4-20:340	175G5202	445
MCD201-037-T6-CV1 (IP20)	37 kW	75A AC53b 4-6:594/67A AC53b 4-20:580	175G5203	534
MCD201-045-T6-CV1 (IP20)	45 kW	85A AC53b 4-6:594/72A AC53b 4-20:580	175G5204	659
MCD201-055-T6-CV1 (IP20)	55 kW	100A AC53b 4-6:594/92A AC53b 4-20:580	175G5205	677
MCD201-075-T6-CV1 (IP00)	75 kW	140A AC53b 4-6:594/116A AC53b 4-20:580	175G5206	819
MCD201-090-T6-CV1 (IP00)	90 kW	170A AC53b 4-6:594/138A AC53b 4-20:580	175G5207	1120
MCD201-110-T6-CV1 (IP00)	110 kW	200A AC53b 4-6:594/160A AC53b 4-20:580	175G5208	1216

Dimensions	A	B	C	Weight
7 - 30 kW	203	98	163	2,2 kg
37 - 55 kW	215	145	191	4 kg
75 - 110 kW	240	202	212	6,1 kg

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VLT® Compact Starter MCD200

MCD202 - 3x 200-440V

110-240V/380-440V	Pnom.	Max. load	Article nr.	Price GBP
MCD202-007-T4-CV3 (IP20)	7,5 kW	18A AC53b 4-6:354/16A AC53b 4-20:340	175G5209	407
MCD202-015-T4-CV3 (IP20)	15 kW	34A AC53b 4-6:354/31A AC53b 4-20:340	175G5210	435
MCD202-018-T4-CV3 (IP20)	18,5 kW	42A AC53b 4-6:354/37A AC53b 4-20:340	175G5211	451
MCD202-022-T4-CV3 (IP20)	22 kW	48A AC53b 4-6:354/46A AC53b 4-20:340	175G5212	484
MCD202-030-T4-CV3 (IP20)	30 kW	60A AC53b 4-6:354/48A AC53b 4-20:340	175G5213	538
MCD202-037-T4-CV3 (IP20)	37 kW	75A AC53b 4-6:594/67A AC53b 4-20:580	175G5214	601
MCD202-045-T4-CV3 (IP20)	45 kW	85A AC53b 4-6:594/72A AC53b 4-20:580	175G5215	734
MCD202-055-T4-CV3 (IP20)	55 kW	100A AC53b 4-6:594/92A AC53b 4-20:580	175G5216	776
MCD202-075-T4-CV3 (IP00)	75 kW	140A AC53b 4-6:594/116A AC53b 4-20:580	175G5217	903
MCD202-090-T4-CV3 (IP00)	90 kW	170A AC53b 4-6:594/138A AC53b 4-20:580	175G5218	1218
MCD202-110-T4-CV3 (IP00)	110 kW	200A AC53b 4-6:594/160A AC53b 4-20:580	175G5219	1318

24 V ac/dc	Pnom.	Max. load	Article nr.	Price GBP
MCD202-007-T4-CV1 (IP20)	7,5 kW	18A AC53b 4-6:354/16A AC53b 4-20:340	175G5220	407
MCD202-015-T4-CV1 (IP20)	15 kW	34A AC53b 4-6:354/31A AC53b 4-20:340	175G5221	435
MCD202-018-T4-CV1 (IP20)	18,5 kW	42A AC53b 4-6:354/37A AC53b 4-20:340	175G5222	451
MCD202-022-T4-CV1 (IP20)	22 kW	48A AC53b 4-6:354/46A AC53b 4-20:340	175G5223	484
MCD202-030-T4-CV1 (IP20)	30 kW	60A AC53b 4-6:354/48A AC53b 4-20:340	175G5224	538
MCD202-037-T4-CV1 (IP20)	37 kW	75A AC53b 4-6:594/67A AC53b 4-20:580	175G5225	601
MCD202-045-T4-CV1 (IP20)	45 kW	85A AC53b 4-6:594/72A AC53b 4-20:580	175G5226	734
MCD202-055-T4-CV1 (IP20)	55 kW	100A AC53b 4-6:594/92A AC53b 4-20:580	175G5227	776
MCD202-075-T4-CV1 (IP00)	75 kW	140A AC53b 4-6:594/116A AC53b 4-20:580	175G5228	903
MCD202-090-T4-CV1 (IP00)	90 kW	170A AC53b 4-6:594/138A AC53b 4-20:580	175G5229	1218
MCD202-110-T4-CV1 (IP00)	110 kW	200A AC53b 4-6:594/160A AC53b 4-20:580	175G5230	1318

Dimensions	A	B	C	Weight
7 - 30 kW	203	98	163	2,4 kg
37 - 55 kW	215	145	191	4,3 kg
75 - 110 kW	240	202	212	6,8 kg

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VLT® Compact Starter MCD200

MCD202 - 3x 200-575V

110-240V/380-440V	Pnom.	Max. load	Article nr.	Price GBP
MCD202-007-T4-CV3 (IP20)	7,5 kW	18A AC53b 4-6:354/16A AC53b 4-20:340	175G5231	469
MCD202-015-T4-CV3 (IP20)	15 kW	34A AC53b 4-6:354/31A AC53b 4-20:340	175G5232	501
MCD202-018-T4-CV3 (IP20)	18,5 kW	42A AC53b 4-6:354/37A AC53b 4-20:340	175G5233	520
MCD202-022-T4-CV3 (IP20)	22 kW	48A AC53b 4-6:354/46A AC53b 4-20:340	175G5234	556
MCD202-030-T4-CV3 (IP20)	30 kW	60A AC53b 4-6:354/48A AC53b 4-20:340	175G5235	621
MCD202-037-T4-CV3 (IP20)	37 kW	75A AC53b 4-6:594/67A AC53b 4-20:580	175G5236	675
MCD202-045-T4-CV3 (IP20)	45 kW	85A AC53b 4-6:594/72A AC53b 4-20:580	175G5237	824
MCD202-055-T4-CV3 (IP20)	55 kW	100A AC53b 4-6:594/92A AC53b 4-20:580	175G5238	871
MCD202-075-T4-CV3 (IP00)	75 kW	140A AC53b 4-6:594/116A AC53b 4-20:580	175G5239	1002
MCD202-090-T4-CV3 (IP00)	90 kW	170A AC53b 4-6:594/138A AC53b 4-20:580	175G5240	1318
MCD202-110-T4-CV3 (IP00)	110 kW	200A AC53b 4-6:594/160A AC53b 4-20:580	175G5241	1429

24 V ac/dc	Pnom.	Max. load	Article nr.	Price GBP
MCD202-007-T4-CV1 (IP20)	7,5 kW	18A AC53b 4-6:354/16A AC53b 4-20:340	175G5242	469
MCD202-015-T4-CV1 (IP20)	15 kW	34A AC53b 4-6:354/31A AC53b 4-20:340	175G5243	501
MCD202-018-T4-CV1 (IP20)	18,5 kW	42A AC53b 4-6:354/37A AC53b 4-20:340	175G5244	520
MCD202-022-T4-CV1 (IP20)	22 kW	48A AC53b 4-6:354/46A AC53b 4-20:340	175G5245	556
MCD202-030-T4-CV1 (IP20)	30 kW	60A AC53b 4-6:354/48A AC53b 4-20:340	175G5246	621
MCD202-037-T4-CV1 (IP20)	37 kW	75A AC53b 4-6:594/67A AC53b 4-20:580	175G5247	675
MCD202-045-T4-CV1 (IP20)	45 kW	85A AC53b 4-6:594/72A AC53b 4-20:580	175G5248	824
MCD202-055-T4-CV1 (IP20)	55 kW	100A AC53b 4-6:594/92A AC53b 4-20:580	175G5249	871
MCD202-075-T4-CV1 (IP00)	75 kW	140A AC53b 4-6:594/116A AC53b 4-20:580	175G5250	1002
MCD202-090-T4-CV1 (IP00)	90 kW	170A AC53b 4-6:594/138A AC53b 4-20:580	175G5251	1318
MCD202-110-T4-CV1 (IP00)	110 kW	200A AC53b 4-6:594/160A AC53b 4-20:580	175G5252	1429

Dimensions	A	B	C	Weight
7 - 30 kW	203	98	163	2,4 kg
37 - 55 kW	215	145	191	4,3 kg
75 - 110 kW	240	202	212	6,8 kg

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VLTR® Compact Starter MCD200

General Options for MCD 200

Description	Article nr.	Price GBP
Modbus Module	175G9000	113
Profibus Module	175G9001	149
DeviceNet Module	175G9002	149
Remote operator	175G9004	198
Finger Guard Kit	175G9007	113

VLT® Soft Starter MCD 3000

VLT® Soft Starter MCD 3000

With the VLT Compact Starter MCD 200 Danfoss fills the gap between the simple analog soft starters and the expensive digital soft starters. Apart from a smooth start and stop, the MCD 200 offers a number of powerful extra functions.



Application	Soft start, soft stop
Powerrange	7.5 - 800 kW, 50/60 Hz
Current range	21 - 1592 A
Supply voltage	3 phase 200-525V 3 phase 200-690V
Control voltage	230 / 400 Vac
Acceleration time	1-30 sec. (adjustable)
Deceleration time	0-100 sec. (adjustable)
Initial torque	10-550% Motor FLC
Enclosure	IP20, IP21
Inputs	4 relay (Start, Stop, Reset, Parameter Set) 1 thermistor input
Outputs	3 relay
Special functions	Special output for bypass relay Motor protection functions also active during bypass
Control	LED display and control panel
Communication	Profibus
Env. temperature	max. 60 degr. C
Approval	CE, UL, C-tick, CSA

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VLT® Soft Starter MCD3000

MCD3000 - 3x 200-525V

Type	Enclosure	Pnom.	Inom.	Article nr.	Price GBP
MCD3007	Bookstyle IP21	7,5 kW	20 A	175G5002	540
MCD3015	Bookstyle IP21	15 kW	34A	175G5006	623
MCD3018	Bookstyle IP21	18,5 kW	39 A	175G5010	628
MCD3022	Bookstyle IP21	22 kW	47 A	175G5014	637
MCD3030	Bookstyle IP21	30 kW	68 A	175G5018	696
MCD3037	Bookstyle IP21	37 kW	88 A	175G5022	761
MCD3045	Bookstyle IP21	45 kW	96 A	175G5026	935
MCD3055	Bookstyle IP21	55 kW	121 A	175G5030	965
MCD3075	Compact IP21	75 kW	138 A	175G5034	1032
MCD3090	Compact IP21	90 kW	196 A	175G5038	1511
MCD3110	Compact IP21	110 kW	231 A	175G5042	1638
MCD3132	Compact IP21	132 kW	247 A	175G5046	1736
MCD3185	Compact IP20	185 kW	364 A	175G5050	2063
MCD3220	Compact IP20	220 kW	430 A	175G5054	2247
MCD3300	Compact IP20	300 kW	546 A	175G5058	2754
MCD3315	Compact IP20	315 kW	630 A	175G5062	3094
MCD3400	Compact IP20	400 kW	775 A	175G5066	3725
MCD3500	Compact IP20	500 kW	897 A	175G5070	5354
MCD3600	Compact IP20	600 kW	1153 A	175G5074	7314
MCD3700	Compact IP20	700 kW	1403 A	175G5078	8904
MCD3800	Compact IP20	800 kW	1564 A	175G5082	10730

Dimensions	Hight mm	Width mm	Depth mm
MCD3007 - 3055	530	132	270
MCD3075 - 3110	530	264	270
MCD3132	530	396	270
MCD3185 - 3500	850	430	280
MCD3600 - 3800	1000	560	315

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VLT® Soft Starter MCD3000

MCD3000 - 3x 200-690V

Type	Enclosure	Pnom.	Inom.	Article nr.	Price GBP
MCD3007	Bookstyle IP21	7,5 kW	21 A	175G5003	602
MCD3015	Bookstyle IP21	15 kW	35A	175G5007	691
MCD3018	Bookstyle IP21	18,5 kW	41 A	175G5011	695
MCD3022	Bookstyle IP21	22 kW	50 A	175G5015	705
MCD3030	Bookstyle IP21	30 kW	69 A	175G5019	766
MCD3037	Bookstyle IP21	37 kW	80 A	175G5023	833
MCD3045	Bookstyle IP21	45 kW	96 A	175G5027	1016
MCD3055	Bookstyle IP21	55 kW	125 A	175G5031	1046
MCD3075	Compact IP21	75 kW	141 A	175G5035	1099
MCD3090	Compact IP21	90 kW	202 A	175G5039	1592
MCD3110	Compact IP21	110 kW	238 A	175G5043	1723
MCD3132	Compact IP21	132 kW	254 A	175G5047	1823
MCD3185	Compact IP20	185 kW	364 A	175G5051	2162
MCD3220	Compact IP20	220 kW	430 A	175G5055	2351
MCD3300	Compact IP20	300 kW	546 A	175G5059	2868
MCD3315	Compact IP20	315 kW	630 A	175G5063	3215
MCD3400	Compact IP20	400 kW	775 A	175G5067	3868
MCD3500	Compact IP20	500 kW	897 A	175G5071	5516
MCD3600	Compact IP20	600 kW	1153 A	175G5075	7518
MCD3700	Compact IP20	700 kW	1403 A	175G5079	9150
MCD3800	Compact IP20	800 kW	1592 A	175G5083	10999

Dimensions	Hight mm	Width mm	Depth mm
MCD3007 - 3055	530	132	270
MCD3075 - 3110	530	264	270
MCD3132	530	396	270
MCD3185 - 3500	850	430	280
MCD3600 - 3800	1000	560	315

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