



Danfoss VLT MCD 202 Series Compact Starter Instruction Manual

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**MCD 202 Series
VLT®
COMPACT STARTER MCD 202**



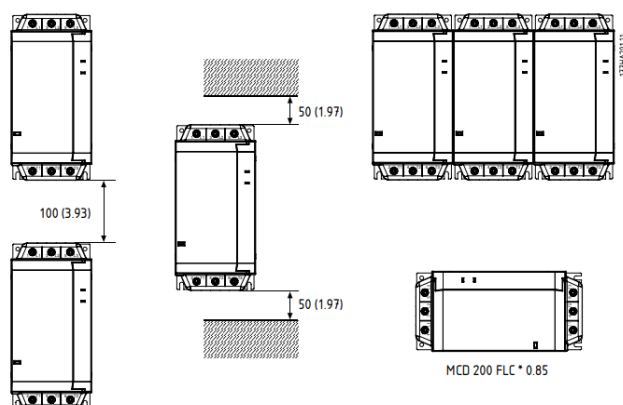
OPERATING INSTRUCTIONS

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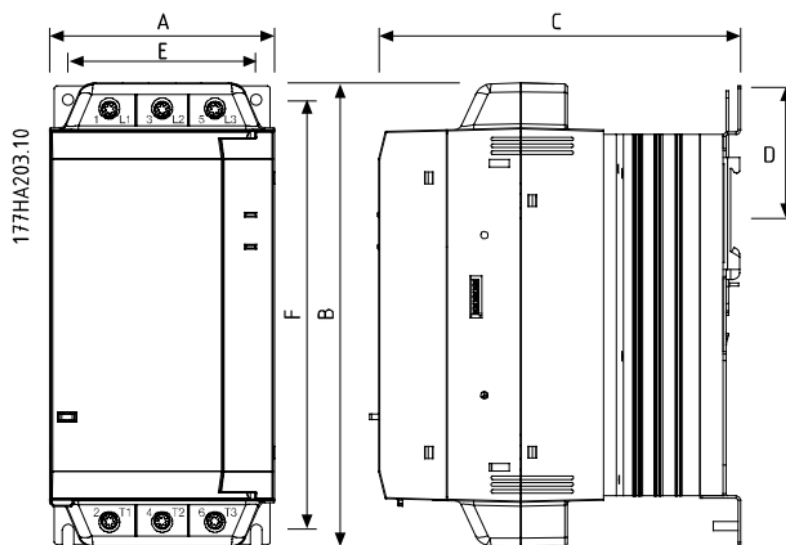
VLT MCD 202 Series Compact Starter

MCD 202 Series Mounting



mm (inch)

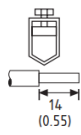
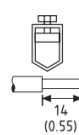
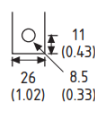
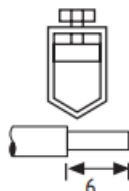
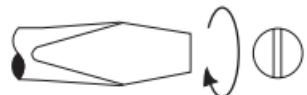
Dimensions



mm (inch)

MCD 202	A	B	C	D	E	F
MCD 202-007	98 (3.86)	203 (7.99)	165 (6.50)	55 (2.17)	82 (3.23)	188 (7.4)
MCD 202-015						
MCD 202-018						
MCD 202-022						
MCD 202-030						
MCD 202-037	145 (5.71)	215 (8.46)	193 (7.60)	–	124 (4.88)	196 (7.72)
MCD 202-045						
MCD 202-055						
MCD 202-075	202 (7.95)	240 (9.45)	214 (8.43)	–	160 (6.30)	204 (8.03)
MCD 202-090						
MCD 202-110						

Cable Termination

	 mm ² (AWG)				 mm ² (AWG)			
	MCD 202–007 ~ MCD 202–030		MCD 202–037 ~ MCD 202–0ff		MCD 202–07f ~ MCD 202–110		MCD 202–007 ~ MCD 202–110	
	10 – 3f (8 – 2)	 14 (0.55) mm (inch)	2f – f0 (t – 1/0)	 14 (0.55) mm (inch)	N.A.	 11 (0.43) 26 (1.02) 8.5 (0.33) mm (inch)	0.1t – 1.f (26 – 16)	 6 (0.24) mm (inch)
	10 – 3f (8 – 2)		2f – f0 (t – 1/0)		N.A.		0.1t – 1.f (26 – 16)	
	Torx (T20) 3 Nn 2.2 f1–lb		Torx (T20) t Nn 2.9 f1–lb		N.A.		N.A.	
	7 nn 3 Nn 2.2 f1–lb		7 nn t Nn 2.9 f1–lb		N.A.		3.f nn 0.f Nn nax t.t lb–in nax	

75 °C Wire – Use copper conductors only

Specifications

MCD 202 – XXX – YY – ZZZ

kW @ 400 VAC, 40 °C
Power Rating

(L1, L2, L3)
Mains Supply

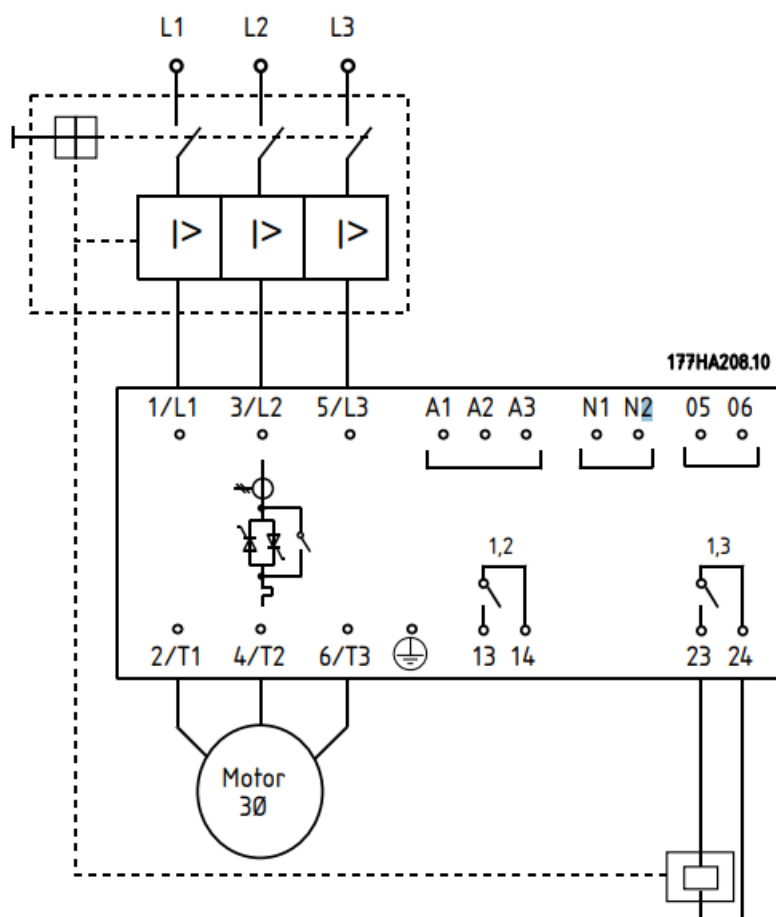
(A1, A2, A3)
Control Supply

Model	kW @ 400 VAC	A	AC53b
007	7.5	18 A	AC53b 4-6:354
015	15	34 A	AC53b 4-6:354
018	18	42 A	AC53b 4-6:354
022	22	48 A	AC53b 4-6:354
030	30	60 A	AC53b 4-6:354
037	37	75 A	AC53b 4-6:594
045	45	85 A	AC53b 4-6:594
055	55	100 A	AC53b 4-6:594
075	75	140 A	AC53b 4-6:594
090	90	170 A	AC53b 4-6:594
110	110	200 A	AC53b 4-6:594
007	7.5	17 A	AC53b 4-20:340
015	15	30 A	AC53b 4-20:340
018	18	36 A	AC53b 4-20:340
022	22	40 A	AC53b 4-20:340
030	30	49 A	AC53b 4-20:340
037	37	65 A	AC53b 4-20:580
045	45	73 A	AC53b 4-20:580
055	55	96 A	AC53b 4-20:580
075	75	120 A	AC53b 4-20:580
090	90	142 A	AC53b 4-20:580
110	110	165 A	AC53b 4-20:580

T4	3Ø, 200-440 VAC 45-66 Hz
T6	3Ø, 200-575 VAC 45-66 Hz

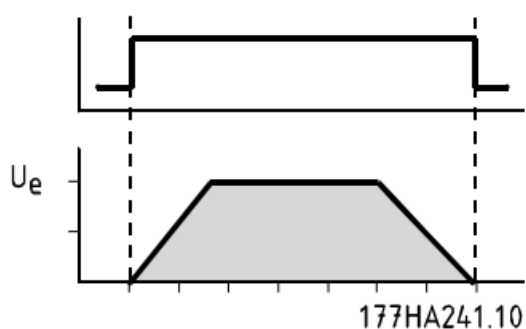
CV1	24 VAC 24 VDC
CV3	110-240 VAC & 380-440 VAC

Wiring

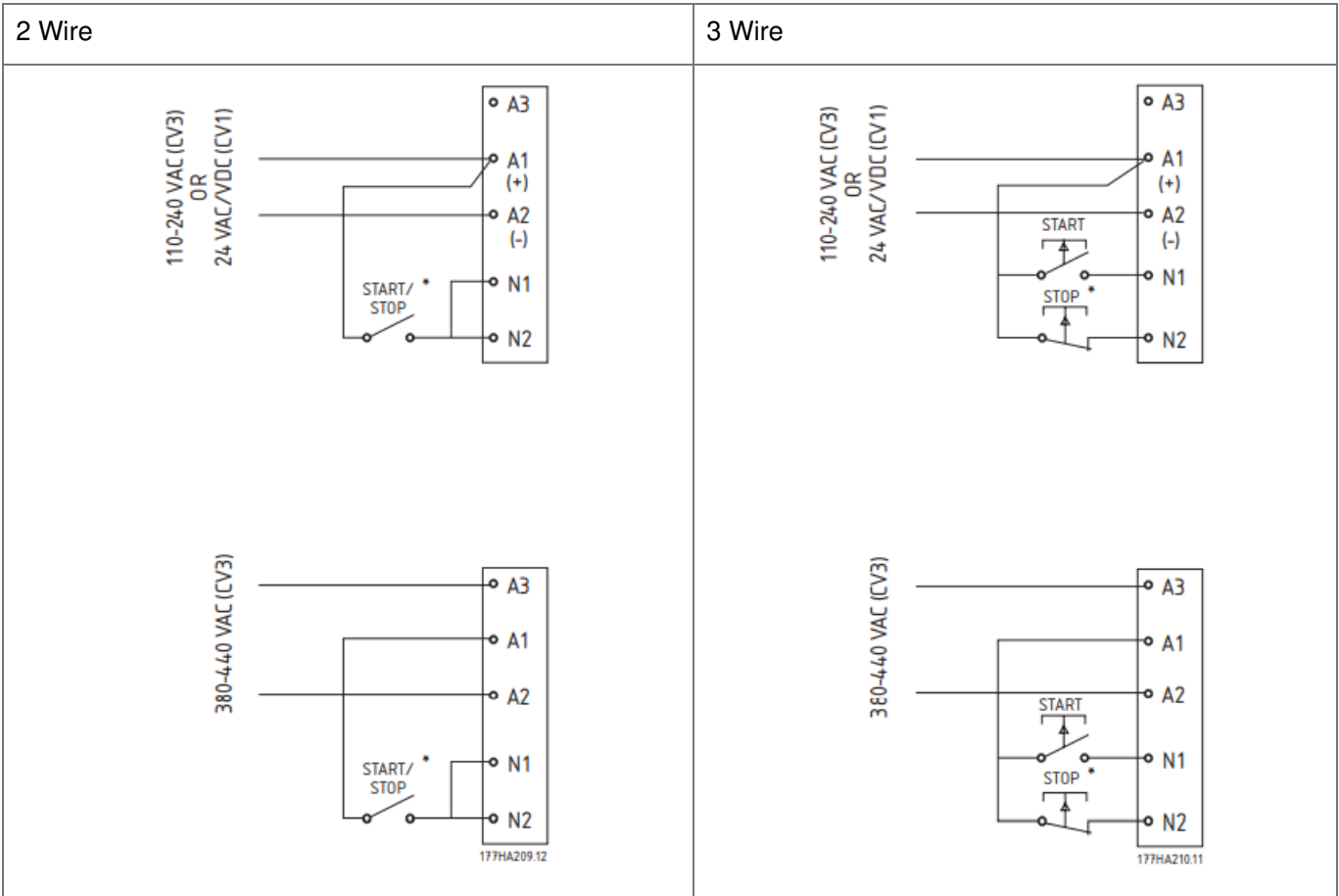


¹6A @ 30 VDC resistive / 2A 400 VAC, AC11

² 6A @ 30 VDC resistive / 2A 400 VAC, AC11

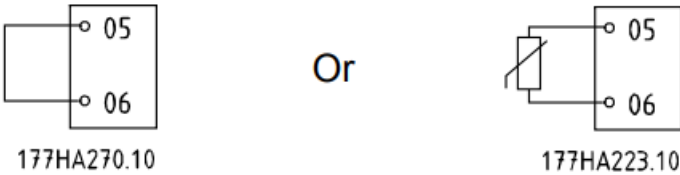


³ Auxiliary Relay Function = Trip



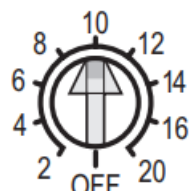
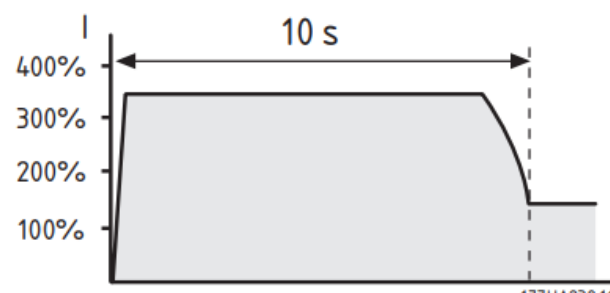
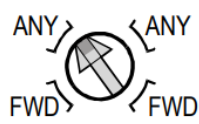
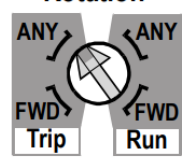
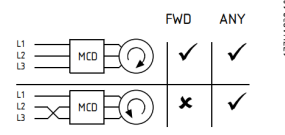
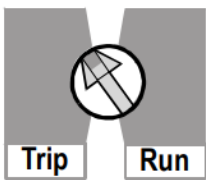
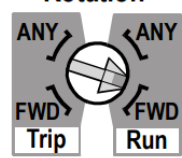
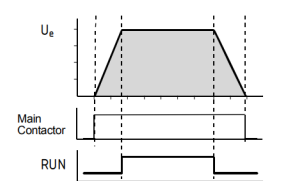
- * Also resets trip conditions
- ⚠ Always apply control voltage before (or with) mains voltage.
 - ⚠ With 24 VAC/VDC use contacts rated for low voltage and low current (gold flash or similar).
 - ⚡ Disconnect from the power source before installing or servicing
 - ⚠ This product has been designed for Class A environments. Use of this product in domestic environments may cause radio interference.

Motor Thermistor

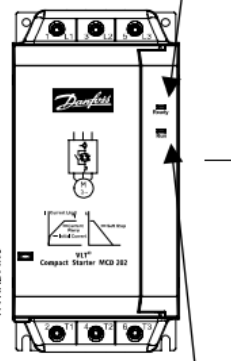


Adjustments

Par.	Example
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Excess Start Time	 Excess Start Time (seconds) 177HA229.11	 177HA238.11	
Phase Rotation Protection	 Phase Rotation Protection 177HA230.10	 Phase Rotation = ANY 177HA232.10	 177HA239.10
Auxiliary Relay Function	 Aux Relay 177HA231.10	 Phase Rotation = FWD Aux Relay = Trip Aux Relay = Run	 177HA240.11

Indication

 Ready Run	Off, 	On, 	Flash 
	No control power	Ready	Starter tripped
	Motor not running	Motor running at full speed	Motor starting or stopping

Trouble Shooting

Ready	Description
 x 1	Power Circuit: Check mains supply L1, L2 & L3, motor circuit T1, T2 & T3 and soft starter SCRs.
 x 2	Excess Start Time: Check load, increase Current Limit or adjust Excess Start Time setting.
 x 3	Motor Overload: Allow motor to cool, reset soft starter and restart. Soft starter cannot be reset until motor has cooled.
 x 4	Motor Thermistor: Check motor ventilation and thermistor connection 05 & 06. Allow motor to cool.
 x 5	Phase Imbalance: Check line current L1, L2 & L3.
 x 6	Supply Frequency: Check supply frequency is in range.
 x 7	Phase Rotation: Check for correct phase rotation.
 x 8	Network Comms Failure (between accessory module and network): Check network connections and settings.
 x 9	Starter Comms Failure (between starter and accessory module): Remove and refit accessory module.

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References

- [🌐 Global AC drive manufacturer - Danfoss Drives | Danfoss](#)
- [User Manual](#)

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