

MD200 AC Drive

Open loop, general purpose, compact drive

Features & Functions

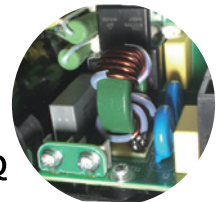
- Open loop V/F & Sensorless Vector Control
- Starting torque 150% at 3 Hz in SVC mode
- Modbus RTU or CANlink¹
- Automatic torque boost
- Slip compensation
- Easy startup with simplified parameters
- 2 Independent S-ramps
- Flexible programmable I/Os
- Variable DC injection braking
- Comprehensive diagnostics
- Output frequency: 500 Hz
- Built-in dynamic braking unit

NEW

Wide operating voltage
 Single-phase 200 to 240 Vac
 0.4 to 2.2 kW
 Three-phase 380 to 480 Vac
 0.4 to 3.7 kW



IND.CONT.EQ



NEW

Internal EMC filter (Category C3)²

Complies with EN61800-3
 Category C2
 2nd Environment
 (with external EMC filter)

NEW

PM motor control¹

Operation in high ambient
 temperatures $\leq 50^{\circ}\text{C}$
 Please note: If operating above 40°C ,
 derating is required

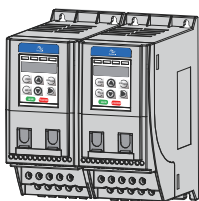
Enhanced reliability and
 protection against humidity and
 dust pollution with class 2 conformal
 coating (resistant to 3C3 and 3S2
 environments).

Onboard comms
 Modbus RTU
 (optional CANlink⁴)

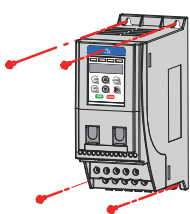
PC-Based
 software:
 simplified
 start up &
 backup³

NEW

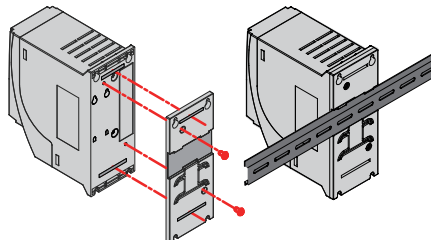
Flexible installation modes



Side-by-Side



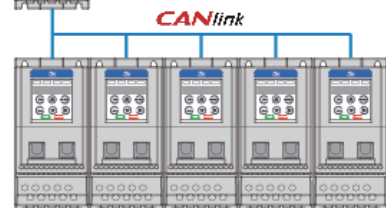
Wall Mounted



DIN rail mounted



CANlink speed sync.



Notes:

- *1 Special versions. Contact your local Inovance Representative.
- *2 Only single phase supply models.
- *3 PC comms kit is required (optional accessory).
- *4 CANlink is Inovance's proprietary serial comms.

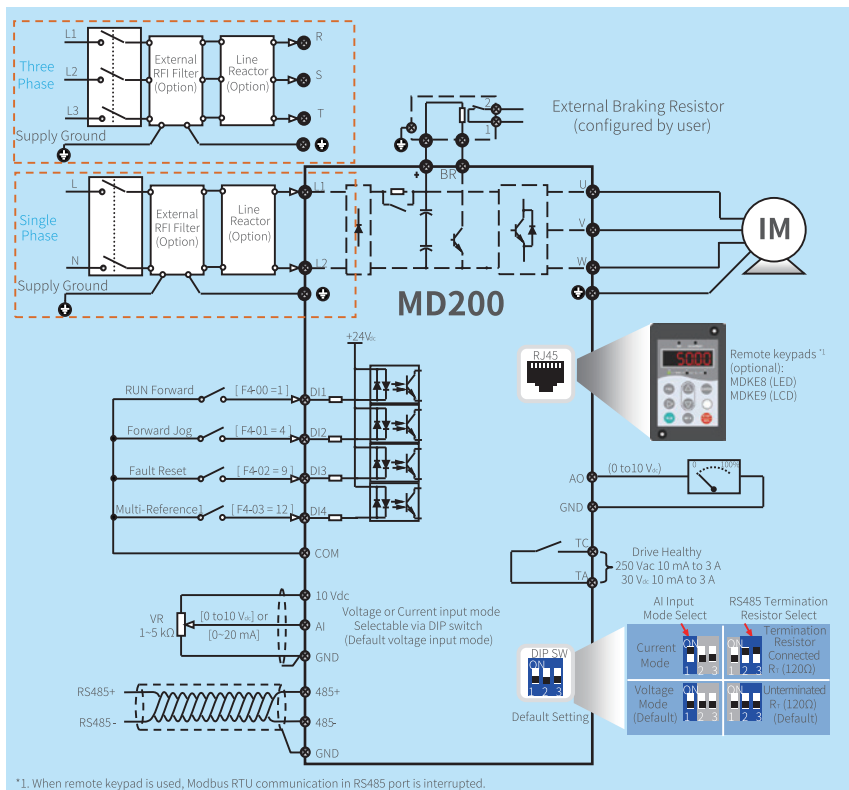
General Specifications

Voltage Class		Single-phase 220 Vac				Three-phase 400 Vac					
Drive Model: MD200xxxxB-INT		S0.4B	S0.75B	S1.5B	S2.2B	T0.4B	T0.75B	T1.5B	T2.2B	T3.7B	
Dimensions	Height Width Depth	[H1]: 180 mm [W]: 75 mm [D]: 145 mm				[H1]: 180 mm [W]: 75 mm [D]: 145 mm					
Drive Input	Rated input voltage	Single-phase 200 to 240 Vac -15% to +10%				Three-phase 380 to 480 Vac -15% to +10%					
	Rated input current [A]	6.5	11.0	18.0	27.0	2.6	4.5	5.5	6.5	11	
	Power capacity [kVA]	1.7	3.0	4.8	7.1	1	1.5	3.0	4.0	5.9	
	Rated input frequency	50/60 Hz ±5% (47.5 to 63 Hz)									
Drive Output	Applicable motor	[kW]	0.4	0.75	1.5	2.2	0.4	0.75	1.5	2.2	3.7
		[HP]	0.5	1	2	3	0.5	1	2	3	5
	Output Current [A] ⁵	2.6	4.6	8	11	1.8	3.4	4.8	5.5	9.5	
	Overload Capacity	150% for 60 s & 180% for 3 s									
	Max. output voltage	200 to 240 Vac (proportional to input voltage)					380 to 480 Vac (proportional to input voltage)				
	Max. output frequency	500 Hz									
Braking Resistor	Recommended power [W]	80	80	100	100	150	150	250	300	400	
	Minimum resistance [Ω]	≥47.1	≥47.1	≥31.4	≥31.4	≥64.3	≥64.3	≥64.3	≥64.3	≥64.3	
Enclosure ⁶		IP20									

⁵ Rated output current at a carrier frequency of 6 kHz.

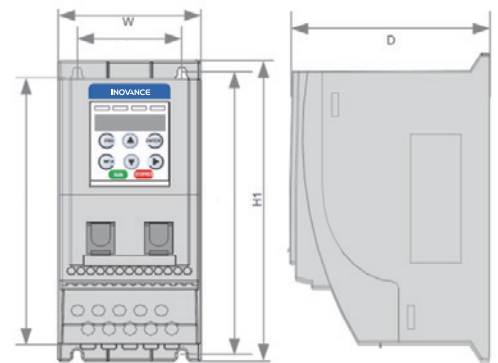
⁶ All units are fan cooled.

General Connection Diagram



*1. When remote keypad is used, Modbus RTU communication in RS485 port is interrupted.

Dimensions



Remote Keypads (optional)



Model: MDK9
Dimensions: 123 H x 72 W x 26.4 D (mm)
IP Rating: IP20
Matching cable model:
 MDCAB 3.0 m (included)



Model: MDK8 (LED type)
Dimensions: 116 H x 76 W x 40 D (mm)
IP Rating: IP20
Matching cable model:
 MDCAB 3.0 m (included)
 Potentiometer (single turn)



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