

INOVANCE

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 CANlink^{*1}
- 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

CE

UL
LISTED

E467465
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 control^{*1}

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

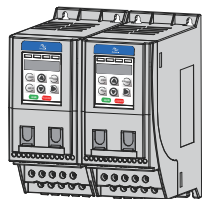
Enhanced reliability and
protection against humidity and
dust pollution with class 2 conformal
coating (resistant to 3C3 and 3S2
environments).

Onboard comms
Modbus RTU
(optional CANlink^{*4})

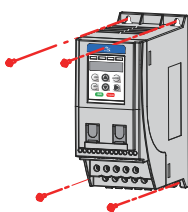
PC-Based
software:
simplified
start up &
backup^{*3}

NEW

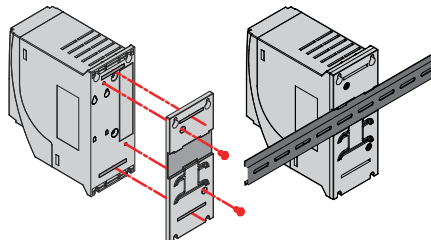
Flexible installation modes



Side-by-Side



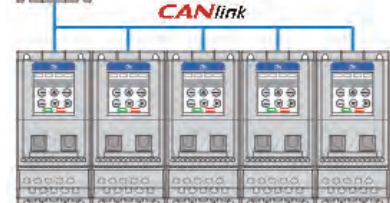
Wall Mounted



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.

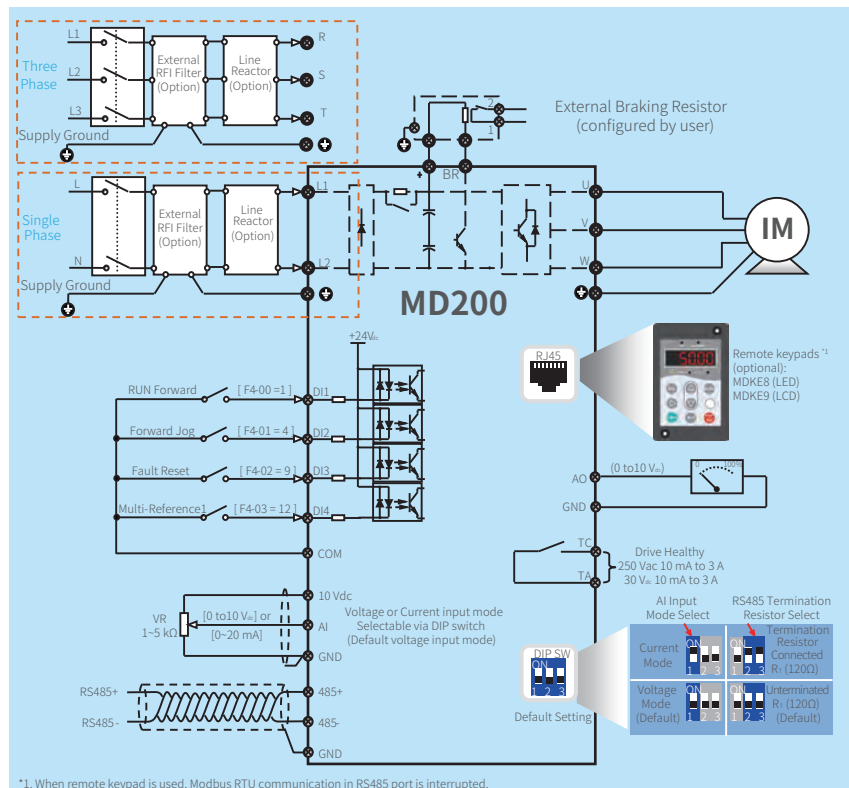
General Specifications

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
	Recommended resistance [Ω]		≥200	≥150	≥100	≥70	≥300	≥300	≥220	≥200	≥130
Enclosure ^{*6}			IP20								

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

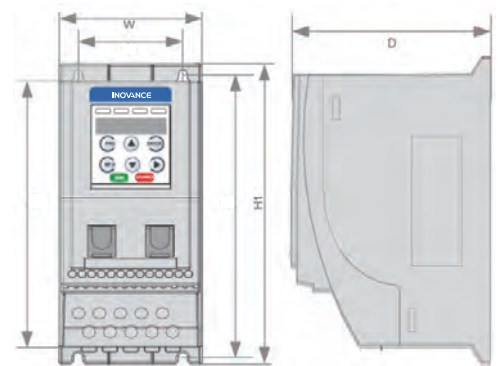
*6 All units are fan cooled.

General Connection Diagram



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

Dimensions



Remote Keypads (optional)



Model: MDKE9
Dimensions: 123 H x 72 W x 26.4 D (mm)
IP Rating: IP20
Matching cable model:
 MDCAB 3.0 m (included)



Model: MDKE8 (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)

For more information, please contact our local offices.

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