

# INOVANCE

## MD200 AC Drive

### Open loop, general purpose, compact drive

#### Features & Functions

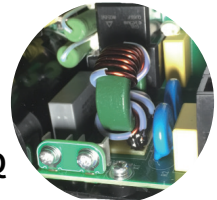
- Open loop V/F & Sensorless Vector Control
- Starting torque 150% at 3 Hz in SVC mode
- Modbus RTU or CANlink<sup>\*1</sup>
- Automatic torque boost
- Slip compensation
- Easy startup with simplified parameters
- 2 Independent S-ramps
- Flexible programmable I/Os
- Variable DC injection braking
- Comprehensive 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)<sup>\*2</sup>

Complies with EN61800-3  
Category C2  
2<sup>nd</sup> Environment  
(with external EMC filter)

**NEW**

PM motor control<sup>\*1</sup>

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

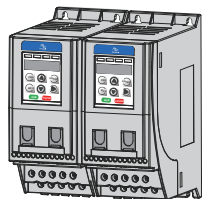
Enhanced reliability and  
protection against humidity and  
dust pollution with class 2 conformal  
coating (resistant to 3C3 and 3S2  
environments).

Onboard comms  
Modbus RTU  
(optional CANlink<sup>\*4</sup>)

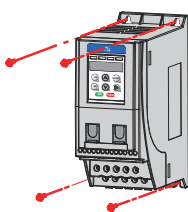
PC-Based  
software:  
simplified  
start up &  
backup<sup>\*3</sup>

**NEW**

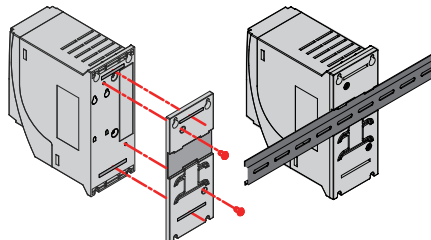
Flexible installation modes



Side-by-Side



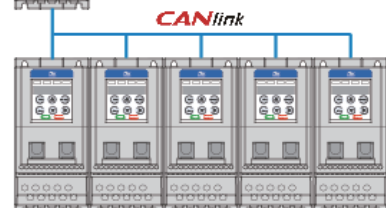
Wall Mounted



DIN rail mounted



CANlink speed sync.



#### Notes:

<sup>\*1</sup> Special versions. Contact your local Inovance Representative.

<sup>\*2</sup> Only single phase supply models.

<sup>\*3</sup> PC comms kit is required (optional accessory).

<sup>\*4</sup> CANlink is Inovance's proprietary serial comms.

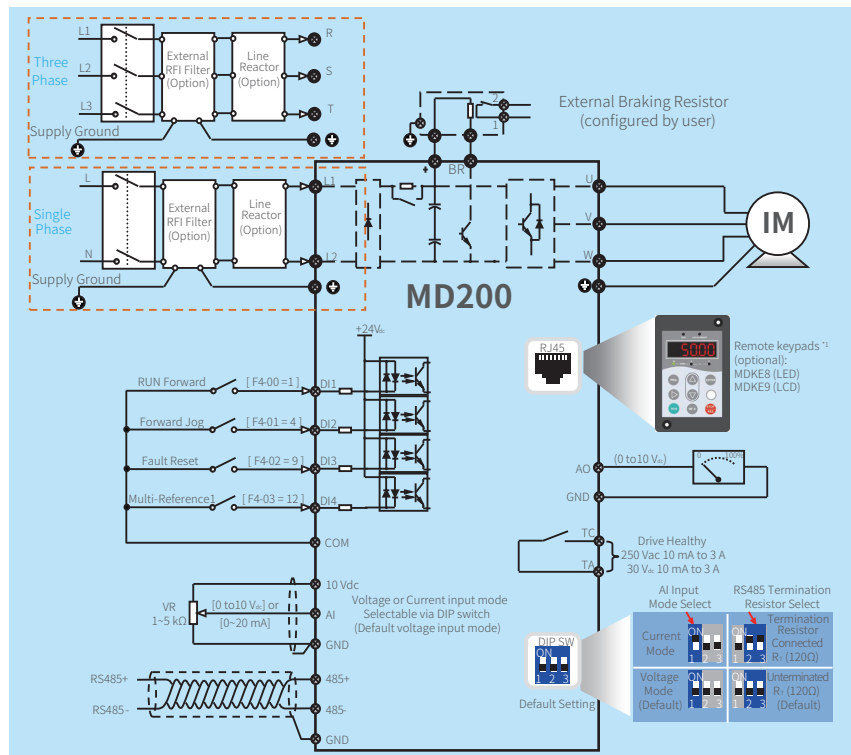
## General Specifications

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] <sup>15</sup>		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 <sup>6</sup>			IP20								

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

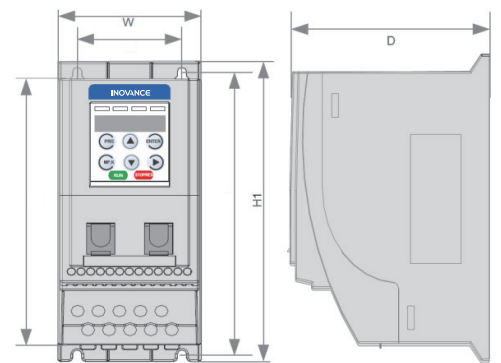
\*6 All units are fan cooled.

## 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)



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