

## 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
- 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

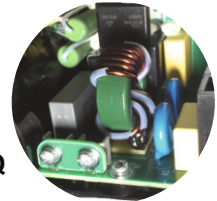
**NEW**

#### 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



**E467465**  
**IND.CONTEQ**



**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 50°C  
Please note: If operating above 40 °C,  
derating is required

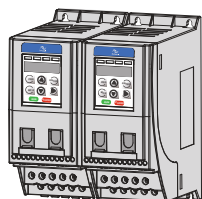
Enhanced reliability and  
protection against humidity and  
dust pollution with class 2 conformal  
coating (resistant to 3C3 and 3S2  
environments).

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

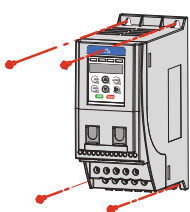
PC-Based  
software:  
simplified  
start up &  
backup <sup>\*3</sup>

**NEW**

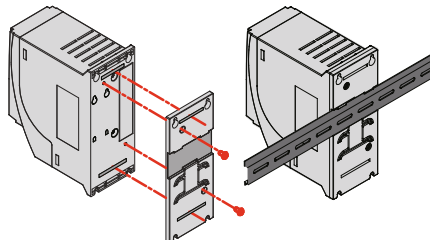
Flexible installation modes



Side-by-Side



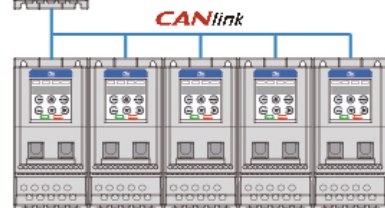
Wall Mounted



DIN rail mounted



CANlink speed sync.



**Notes:**

\*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.

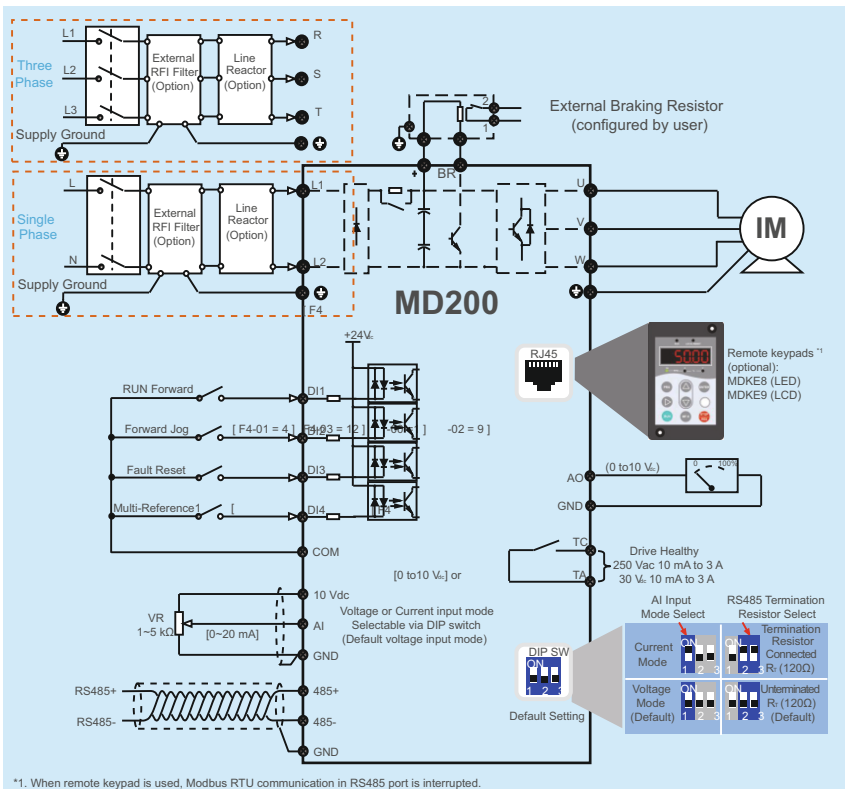
# General Specifications

Voltage Class		Single-phase 220 Vac				Three-phase 400 Vac					
Drive Model: MD200xxxB-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>5</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	
	Recommended resistance [Ω]	≥200	≥150	≥100	≥70	≥300	≥300	≥220	≥ 200	≥130	
Enclosure <sup>6</sup>		IP20									

<sup>5</sup> Rated output current at a carrier frequency of 6 kHz.

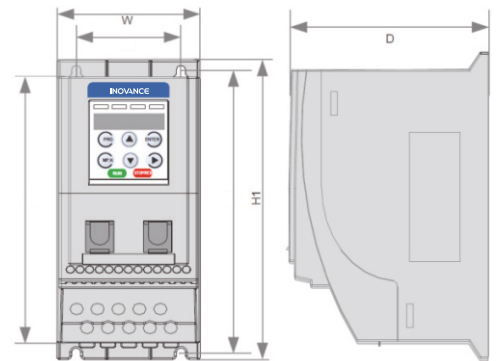
<sup>6</sup> All units are fan cooled.

# 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)