



Smart connections.

Data sheet

INVEOR

# INVEOR – Efficient down to the detail

- Operation of all common motor types
- Robust and compact die-cast casing
- Vector control
- High temperature and vibration resistance
- DC input possible
- Centralised/decentralised installation
- Integrated Soft-PLC in acc. with EN 61131-3
- PC software with integrated oscilloscope function
- Optional fieldbus systems (e.g. CANopen, Profibus, EtherCAT)
- Handheld controller with plain text display available
- Integrated foil keypad available as an option
- Pumps, ventilator operation with power saving function

## Technical specifications

INVEOR M	Size A					Size B			Size C		Size D				
Recommended motor rating [kW] (4-pole asynchronous motor)	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	11.0	15.0	18.5	22.0	
Supply voltage/supply frequency	3 AC 400 V –15% to 480 V +10%, 50/60 Hz ± 6%*														
Line current [A]	-	1.4	1.9	2.6	3.3	4.6	6.2	7.9	10.8	14.8	23.2	28.2	33.2	39.8	
Rated output current [A] at 400 V/8 kHz	-	1.7	2.3	3.1	4.0	5.6	7.5	9.5	13.0	17.8	28.0	34.0	40.0	48.0	
Output voltage	3 AC, 0 V to supply voltage														
Output frequency	0 to 400 Hz														
Max. overload for 60 sec [%]	150													130	
Switching frequency of power stage [kHz]	4, 8, 16 (factory setting: 8)														
Min. brake resistance [Ω]	-	100			50				30						
Protective functions	Undervoltage, overvoltage, I <sup>2</sup> t limitation, short circuits, motor temperature, inverter temperature, stall protection and detection														
Process control	PID controller, freely configurable														
Dimensions (L x W x H) [mm] / [inch]	233 x 153 x 120 9.2 x 6.0 x 4.7					270 x 189 x 140 10.6 x 7.4 x 5.5			307 x 223 x 181 12.1 x 8.8 x 7.1		414 x 294 x 232 16.3 x 11.6 x 9.1				
Weight incl. adaptor plate [kg] / [lbs]	3.9 / 8.6					5.0 / 11.0			8.7 / 19.2		21.0 / 46.3				
Ambient temperature	-	–25 °C / –13 °F (without condensing) to 50 °C / 122 °F (without derating)													
Protection class	IP65								IP55						
EMC	-	fulfils the requirements of DIN EN 61800-3, class C2													
Certificates and conformity	CE, UL and CSA														

INVEOR M	Size A			
Supply voltage/supply frequency	1 AC 200 V –15% to 230 V +15%, 50/60 Hz ± 6%*			
Line current [A]	4.5	5.6	6.9	9.2
Rated output current [A] at 230 V/8 kHz	2.3	3.2	3.9	5.2
Min. brake resistance [Ω]	50			
Ambient temperature for power rating	–10 °C / 14 °F (without condensing) to 40 °C / 104 °F (50 °C / 122 °F with derating)			
EMC	fulfils the requirements of DIN EN 61800-3, class C1			
Certificates and conformity	CE, UL and CSA			

\*About 50% reduced input possible (decreased rated output power)  
This manual is subject to technical changes and printing errors.



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