

MD500-PLUS AC Drive

High performance universal AC drive

- Wide operating voltage and product range:
 - 3 ph 380-480 Vac: 0.4 to 500 kW
 - 3 ph 200-240 Vac: 0.4 to 90 kW
 - 1 ph 200-240 Vac: 0.4 to 2.2 kW
- Operation in high ambient temperatures - up to $\text{50}^{\circ}\text{C}^{*1}$
- Built-in DC reactor (400 V: 18.5 kW and above; 200 V: 11 kW and above)
- Conformal coated PCBs compliant to 3S2 and 3C3 environments
- Enhanced reliability
- Complies to efficiency level IE2 as defined in IEC 61800-9-2
- PC-based software: simplified start up & backup^{*2}
- Through-hole mounting options (0.4 to 160 kW)

IE2

CE



LISTED
E467465

IND. CONT. EQ.^{*3}

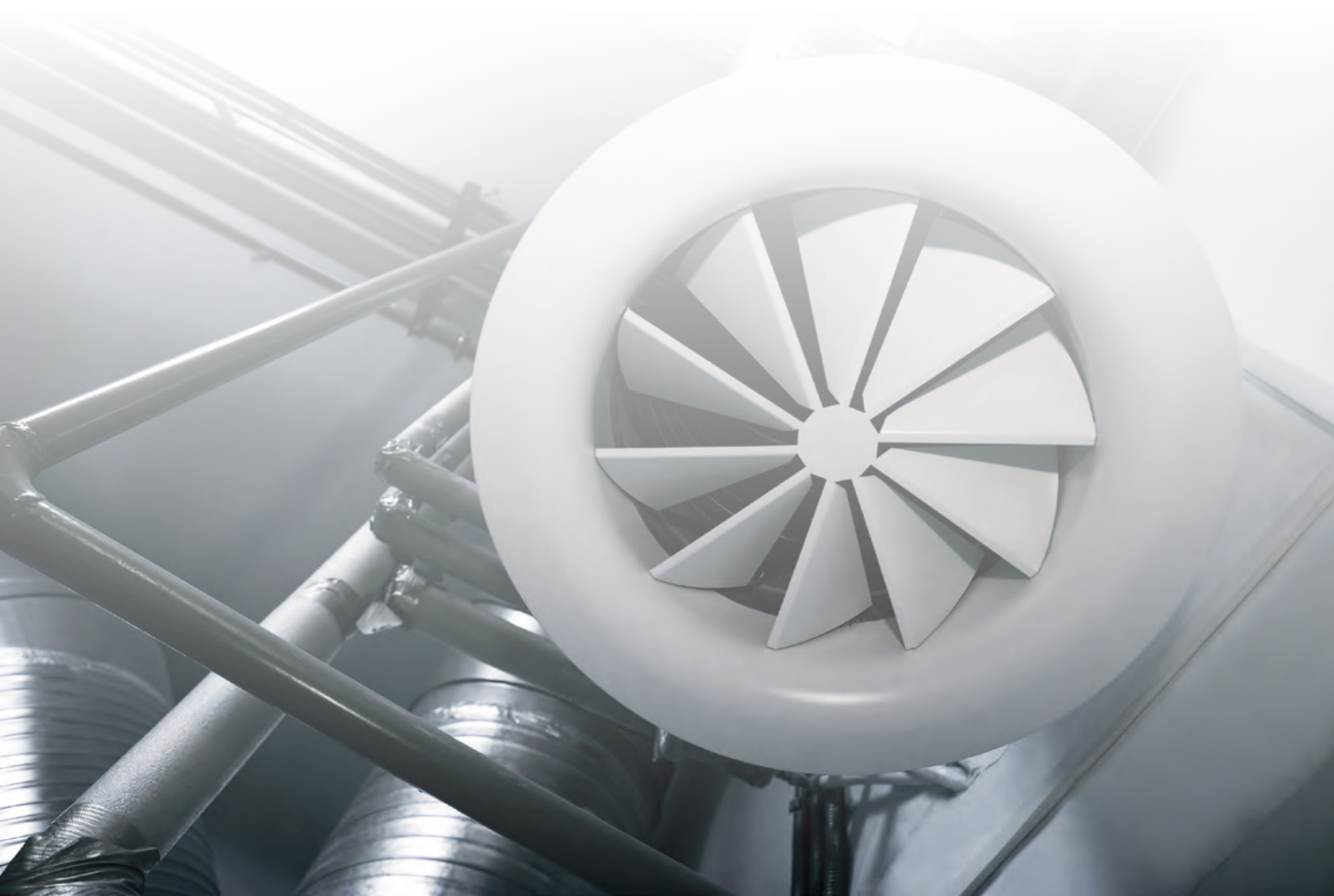
*1 If operating above 40°C, derating is required.

*2 PC comms kit is required (optional accessory).

*3 cUL is available for 380-480 Vac models. For other voltages, please consult with your local Inovance representative.

MD500-PLUS - features & functions

- Induction motor and PM synchronous motor control:
 - Open loop V/F (induction motors only) and SVC
 - Closed loop FVC
- Dual rated
- Starting torque
 - 150% at 0.25 Hz for SVC
 - 180% at 0 Hz for FVC
- Communication options:
 - Modbus-RTU
 - PROFIBUS-DP
 - CANopen
 - CANlink
 - PROFINET
 - EtherCAT
 - Ethernet/IP
- Automatic torque boost
- Slip compensation
- Simplified parameters for easy start up
- 4 independent S-ramps
- Flexible programmable I/Os
- User programmable functions
- Variable DC-injection braking
- Comprehensive trip diagnostics
- Output frequency: 599 Hz
- Built-in dynamic braking unit
- Bipolar analog input as standard (-10 to +10 V)
- PTC input as standard
- Application dedicated functions:
 - Centre winder
 - Textile wobble control
 - Master slave function
- Brake control logic
- 4 motor parameter sets



General specifications

Heavy duty ratings (G), 150% overload

Voltage class 		Three phase 380 to 480 Vac										
Drive Model: MD500TxxxG/yyyPB-PLUS-INT		0.4G/ 0.7PB	0.7G/ 1.1PB	1.1G/ 1.5PB	1.5G/ 2.2PB	2.2G/ 3.0PB	3.0G/ 3.7PB	3.7G/ 5.5PB	5.5G/ 7.5PB	7.5G/ 11PB	11G/ 15PB	15G/ 18.5PB
Frame size		T1 ^{*1}						T2		T3		T4
Drive input	Rated input voltage	Three phase 380 to 480 Vac -15% to +10%										
	Rated input current [A]	1.8	2.4	3.7	4.6	6.3	9.0	11.4	16.7	21.9	32.2	41.3
	Power capacity [kVA]	2	2.8	4.1	5.0	6.7	9.5	12	17.5	22.8	33.4	42.8
	Rated input frequency	50/60 Hz ±5%										
Drive output	Applicable motor [kW]	0.4	0.7	1.1	1.5	2.2	3.0	3.7	5.5	7.5	11	15
	Output current [A] ^{*2}	1.5	2.1	3.1	3.8	5.1	7.2	9.0	13.0	17.0	25.0	32.0
	Default carrier frequency [kHz]	3	3	3	3	3	3	3	3	3	3	3
	Overload capacity	150% for 60 s										
	Max. output voltage	Three phase 380 Vac to 480 Vac (proportional to input voltage)										
	Max. output frequency	599 Hz										
Braking resistor	Recommended power [kW]	0.08	0.14	0.22	0.3	0.44	0.6	0.74	1.1	1.5	2.2	3
	Minimum resistance [Ω]	96	96	96	96	64	64	32	32	32	24	24
Braking unit		Built-in										
Enclosure		IP 20										

Normal duty ratings (P), 110% overload

Voltage class 		Three phase 380 to 480 Vac										
Drive Model: MD500TxxxG/yyyPB-PLUS-INT		0.4G/ 0.7PB	0.7G/ 1.1PB	1.1G/ 1.5PB	1.5G/ 2.2PB	2.2G/ 3.0PB	3.0G/ 3.7PB	3.7G/ 5.5PB	5.5G/ 7.5PB	7.5G/ 110PB	11G/ 15PB	15G/ 18.5PB
Frame size		T1						T2		T3		T4
Drive input	Rated input voltage	Three phase 380 to 480 Vac -15% to +10%										
	Rated input current [A]	2.5	3.7	4.6	6.4	9.1	11.3	15.9	22.4	32.9	39.7	44.0
	Power capacity [kVA]	2.3	3.4	4.2	5.9	8.3	10.4	15.5	20.5	30.2	38.2	44.4
	Rated input frequency	50/60 Hz ±5%										
Drive output	Applicable motor [kW]	0.75	1.1	1.5	2.2	3.7	3.7	5.5	7.5	11	15	18.5
	Output current [A] ^{*2}	2.1	3.1	3.8	5.1	7.2	9.0	13.0	17.0	25.0	32.0	37.0
	Default carrier frequency [kHz]	3	3	3	3	3	3	3	3	3	3	3
	Overload capacity	110% for 60 s										
	Max. output voltage	Three phase 380 Vac to 480 Vac (proportional to input voltage)										
Max. output frequency		599 Hz										
Braking resistor	Recommended power [kW]	0.08	0.14	0.22	0.3	0.44	0.6	0.74	1.1	1.5	2.2	3
	Minimum resistance [Ω]	96	96	96	96	64	64	32	32	32	24	24
Braking unit		Built-in										
Enclosure		IP 20										

*1 0.75/1.5/2.2 kW are the preferred stocking ratings. To learn more, please get in touch with your local Inovance representative.

*2 Rated output current at default carrier frequency.

*3 Minimum value of the resistance for each braking unit.

*4 For the standard AC drive, we recommend motor cable lengths to be <100 m. Where your installation exceeds 100 m, the "L" version is an option with a built-in AC output reactor (1% voltage drop) which can help to overcome the effects of long cable installations. To discuss your application, contact your local Inovance representative.

General specifications

Heavy duty ratings (G), 150% overload

Voltage class 		Three phase 380 to 480 Vac										
Drive Model: MD500TxxxG/yyyP(B)-PLUS-INT		18.5G/ 22PB	22G/ 30PB	30G/ 37PB	37G/ 45PB	45G/ 55PB	55G/ 75PB	75G/ 90PB	90G/ 11P	110G/ 132P	132G/ 160P	160G 200P
Frame size		T5		T6		T7		T8			T9	
Drive input	Rated input voltage	Three phase 380 to 480 Vac -15% to +10%										
	Rated input current [A]	43.4	51.3	57	69	89	106	139	164	196	240	287
	Power capacity [kVA]	45	54	52	63	81	97	127	150	179	220	263
	Rated input frequency	50/60 Hz ±5%										
Drive output	Applicable motor [kW]	18.5	22	30	37	45	55	75	90	110	132	160
	Output current [A] ²	37	45	60	75	91	112	150	176	210	253	304
	Default carrier frequency [kHz]	6	6	6	5	5	4	3	3	3	3	3
	Overload capacity	150% for 60 s										
	Max. output voltage	Three phase 380 Vac to 480 Vac (proportional to input voltage)										
	Max. output frequency	599 Hz										
Braking resistor	Recommended power [kW]	4	4.5	6	7	9	11	15	18	22	26	32
	Minimum resistance [Ω]	24	24	19.2	14.8	12.8	9.6	6.8	11.4x2 ³	7.7x2 ³	7.7x2 ³	7.7x2 ³
Braking unit		Built-in							MDBUN-60-5T x2	MDBUN-90-5T x2		
Enclosure		IP 20										

Normal duty ratings (P), 110% overload

Voltage class 		Three phase 380 to 480 Vac										
DriveModel: MD500TxxxG/yyyP(B)-PLUS-INT		18.5G/ 22PB	22G/ 30PB	30G/ 37PB	37G/ 45PB	45G/ 55PB	55G/ 75PB	75G/ 90PB	90G/ 110P	110G/ 132P	132G/ 160P	160G 200P
Frame size		T5		T6		T7		T8			T9	
Drive input	Rated input voltage	Three phase 380 to 480 Vac -15% to +10%										
	Rated input current [A]	51.3	65.8	71	86	111	143	167	198	239	295	359
	Power capacity [kVA]	54	60	65	79	102	131	153	181	219	270	328
	Rated input frequency	50/60 Hz ±5%										
Drive output	Applicable motor [kW]	22	30	37	45	55	75	90	110	132	160	200
	Output current [A] ²	45	60	75	91	112	150	176	210	253	304	377
	Default carrier frequency [kHz]	6	6	6	5	5	4	3	3	3	3	3
	Overload capacity	110% for 60 s										
	Max. output voltage	Three phase 380 Vac to 480 Vac (proportional to input voltage)										
	Max. output frequency	599 Hz										
Braking resistor	Recommended power [kW]	4	4.5	6	7	9	11	15	18	22	26	32
	Minimum resistance [Ω]	24	24	19.2	14.8	12.8	9.6	6.8	11.4x2 ³	7.7x2 ³	7.7x2 ³	7.7x2 ³
Braking unit		Built-in							MDBUN-60-5T x2		MDBUN-90-5T x2	
Enclosure		IP 20										

*1 0.75/1.5/2.2 kW are the preferred stocking ratings. To learn more, please get in touch with your local Inovance representative.

*2 Rated output current at default carrier frequency.

*3 Minimum value of the resistance for each braking unit.

*4 For the standard AC drive, we recommend motor cable lengths to be <100 m. Where your installation exceeds 100 m, the "L" version is an option with a built-in AC output reactor (1% voltage drop) which can help to overcome the effects of long cable installations. To discuss your application, contact your local Inovance representative.

General specifications

Heavy duty ratings (G), 150% overload

Voltage class 		Three phase 380 to 480 Vac						
DriveModel: MD500TxxxG/xxxP(-L)-PLUS-INT ^{*4,5}		200G/250P (-L)	220G/280P (-L)	250G/315P (-L)	280G/355P (-L)	315G/400P (-L)	355G/450P (-L)	400G/500P (-L)
Frame size		T10		T11		T12		
Drive input	Rated input voltage	Three phase 380 to 480 Vac -15% to +10%						
	Rated input current [A]	365	410	441	495	565	617	687
	Power capacity [kVA]	334	375	404	453	517	565	629
	Rated input frequency	50/60 Hz ±5%						
Drive output	Applicable motor [kW]	200	220	250	280	315	355	400
	Output current [A] ^{*2}	377	426	465	520	585	650	725
	Default carrier frequency [kHz]	3	3	3	3	3	3	3
	Overload capacity	150% for 60 s						
	Max. output voltage	Three phase 380 Vac to 480 Vac (proportional to input voltage)						
	Max. output frequency	599 Hz						
Braking resistor	Recommended power [kW]	38	42	48	53	60	69	78
	Minimum resistance [Ω]	2.8 x2 ^{*3}	2.8 x2 ^{*3}	2.8 x3 ^{*3}	2.8 x3 ^{*3}	2.8 x3 ^{*3}	2.8 x3 ^{*3}	2.8 x3 ^{*3}
Braking unit		MDBUN-200-5T x2		MDBUN-200-5T x3				
Enclosure		IP 00						

Normal duty ratings (P), 110% overload

Voltage class 		Three phase 380 to 480 Vac						
DriveModel: MD500TxxxG/xxxP(-L)-PLUS-INT ^{*4}		200G/250P (-L)	220G/280P (-L)	250G/315P (-L)	280G/355P (-L)	315G/400P (-L)	355G/450P (-L)	400G/500P (-L)
Frame size		T10		T11		T12		
Drive input	Rated input voltage	Three phase 380 to 480 Vac -15% to +10%						
	Rated input current [A]	456	507	559	624	708	782	840
	Power capacity [kVA]	417	464	511	571	647	715	768
	Rated input frequency	50/60 Hz ±5%						
Drive output	Applicable motor [kW]	250	280	315	355	400	450	500
	Output current [A] ^{*2}	465	520	585	650	725	820	880
	Default carrier frequency [kHz]	3	3	3	3	3	3	3
	Overload capacity	110% for 60 s						
	Max. output voltage	Three phase 380 Vac to 480 Vac (proportional to input voltage)						
	Max. output frequency	599 Hz						
Braking resistor	Recommended power [kW]	38	42	48	53	60	69	78
	Minimum resistance [Ω]	2.8 x2 ⁻³	2.8 x2 ⁻³	2.8 x3 ⁻³	2.8 x3 ⁻³	2.8 x3 ⁻³	2.8 x3 ⁻³	2.8 x3 ⁻³
Braking unit		MDBUN-200-5T x2		MDBUN-200-5T x3				
Enclosure		IP 00						

*1 0.75/1.5/2.2 kW are the preferred stocking ratings. To learn more, please get in touch with your local Inovance representative.

*2 Rated output current at default carrier frequency.

*3 Minimum value of the resistance for each braking unit.

*4 For the standard AC drive, we recommend motor cable lengths to be <100 m. Where your installation exceeds 100 m, the "L" version is an option with a built-in AC output reactor (1% voltage drop) which can help to overcome the effects of long cable installations. To discuss your application, contact your local Inovance representative.

*5 G rated 450 kW unit also available on request, with 130% overload. For more information, contact your local Inovance representative.

General specifications

Heavy duty ratings (G), 150% overload

Voltage class 		Three phase 200 - 240 Vac															
Drive Model: MD500-2TxxxG/yyyP(B)-PLUS-INT		0.4G/ 0.7PB	0.7G/ 1.1PB	1.1G/ 1.5PB	1.5G/ 2.2PB	2.2G/ 3.7PB	3.7G/ 5.5PB	5.5G/ 7.5PB	7.5G/ 11PB	11G/ 15PB	15G/ 18.5PB	18.5G/ 22PB	22G/ 30PB	30G/ 37PB	37G/ 45PB	45G/ 55P	55G/ 75P
Frame size		T1				T2		T3	T4	T5	T6		T7		T8		
Drive input	Rated input voltage	Three phase 200 to 240 Vac -15% to +10%															
	Rated input current [A]	2.4	4.6	6.3	9.0	11.4	16.7	32.2	41.3	51.3	57	69	89	106	139	164	196
	Power capacity [kVA]	1.1	2.1	2.9	4.1	5.2	7.6	14.7	18.9	27	26.1	31.6	40.7	48.5	63.6	75	89.6
	Rated input frequency	50/60 Hz ±5%															
Drive output	Applicable motor [kW]	0.4	0.75	1.1	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55
	Output current [A] ²	2.1	3.8	5.1	7.2	9.0	13	25	32	45	60	75	91	112	150	176	210
	Default carrier frequency [kHz]	6	6	6	6	6	6	6	6	6	6	5	5	5	4	3	3
	Overload capacity	150% for 60 s															
	Max. output voltage	Three phase 200 Vac to 240 Vac (proportional to input voltage)															
	Max. output frequency	599 Hz															
Braking resistor	Recommended power [kW]	0.09	0.16	0.25	0.34	0.5	0.8	1.3	1.7	2.3	3.0	3.9	4.6	5.5	6.8	5.0 x2	6.0 x2
	Minimum resistance [Ω]	48	48	32	32	16	16	12	12	12	9	7	6	5	4	5.5 x2 ³	3.7 x2 ³
Braking unit		Built-in														MDBUN-60-2T x2	MDBUN-90-2T x2
Enclosure		IP 20															

Normal duty ratings (P), 110% overload

Voltage class 		Three phase 200 - 240 Vac															
Drive Model: MD500-2TxxxG/yyyP(B)-PLUS-INT		0.4G/ 0.7PB	0.7G/ 1.1PB	1.1G/ 1.5PB	1.5G/ 2.2PB	2.2G/ 3.7PB	3.7G/ 5.5PB	5.5G/ 7.5PB	7.5G/ 11PB	11G/ 15PB	15G/ 18.5PB	18.5G/ 22PB	22G/ 30PB	30G/ 37PB	37G/ 45PB	45G/ 55P	55G/ 75P
Frame size		T1				T2		T3	T4	T5	T6		T7		T8		
Drive input	Rated input voltage	Three phase 200 to 240 Vac -15% to +10%															
	Rated input current [A]	3.7	6.4	9.1	11.3	15.9	22.4	39.7	44	65.8	71	86	111	143	167	198	239
	Power capacity [kVA]	1.7	2.9	4.2	5.2	7.3	10.2	18.2	20.1	30.1	32.5	39.3	50.8	65.4	76.4	90.5	109.3
	Rated input frequency	50/60 Hz ±5%															
Drive output	Applicable motor [kW]	0.75	1.1	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75
	Output current [A] ²	3.1	5.1	7.2	9.0	13	17	32	37	60	75	91	112	150	176	210	253
	Default carrier frequency [kHz]	6	6	6	6	6	6	6	6	6	6	5	5	5	4	3	3
	Overload capacity	110% for 60 s															
	Max. output voltage	Three phase 200 Vac to 240 Vac (proportional to input voltage)															
	Max. output frequency	599 Hz															
Braking resistor	Recommended power [kW]	0.09	0.16	0.25	0.34	0.5	0.8	1.3	1.7	2.3	3.0	3.9	4.6	5.5	6.8	5.0 x2	6.0 x2
	Minimum resistance [Ω]	48	48	32	32	16	16	12	12	12	9	7	6	5	4	5.5 x2 ³	3.7 x2 ³
Braking unit		Built-in														MDBUN-60-2T x2	MDBUN-90-2T x2
Enclosure		IP 20															

*1 0.75/1.5/2.2 kW are the preferred stocking ratings. To learn more, please get in touch with your local Inovance representative.

*2 Rated output current at default carrier frequency.

*3 Minimum value of the resistance for each braking unit.

*4 For the standard AC drive, we recommend motor cable lengths to be <100 m. Where your installation exceeds 100 m, the "L" version is an option with a built-in AC output reactor (1% voltage drop) which can help to overcome the effects of long cable installations. To discuss your application, contact your local Inovance representative.

General specifications

Heavy duty ratings (G), 150% overload

Voltage class 		1 Phase 200 - 240 Vac			
DriveModel: MD500-2SxxxGB-PLUS-INT ^{*4}		0.4GB	0.7GB	1.5GB	2.2GB
Frame size		T2			
Drive input	Rated input voltage	Three phase 200 to 240 Vac -15% to +10%			
	Rated input current [A]	5.4	8.2	14	20
	Power capacity [kVA]	1.4	2.2	3.7	6
	Rated input frequency	50/60 Hz $\pm 5\%$			
Drive output	Applicable motor [kW]	0.4	0.7	1.5	2.2
	Output current [A] ^{*2}	2.3	4.0	7.0	9.6
	Default carrier frequency [kHz]	6	6	6	6
	Overload capacity	150% for 60 s			
	Max. output voltage	Three phase 200 Vac to 240 Vac (proportional to input voltage)			
	Max. output frequency	599 Hz			
Braking resistor	Recommended power [kW]	80	80	100	100
	Minimum resistance [Ω]	64	64	32	32
Braking unit		Built-in			
Enclosure		IP 20			

*1 0.75/1.5/2.2 kW are the preferred stocking ratings. To learn more, please get in touch with your local Inovance representative.

*2 Rated output current at default carrier frequency.

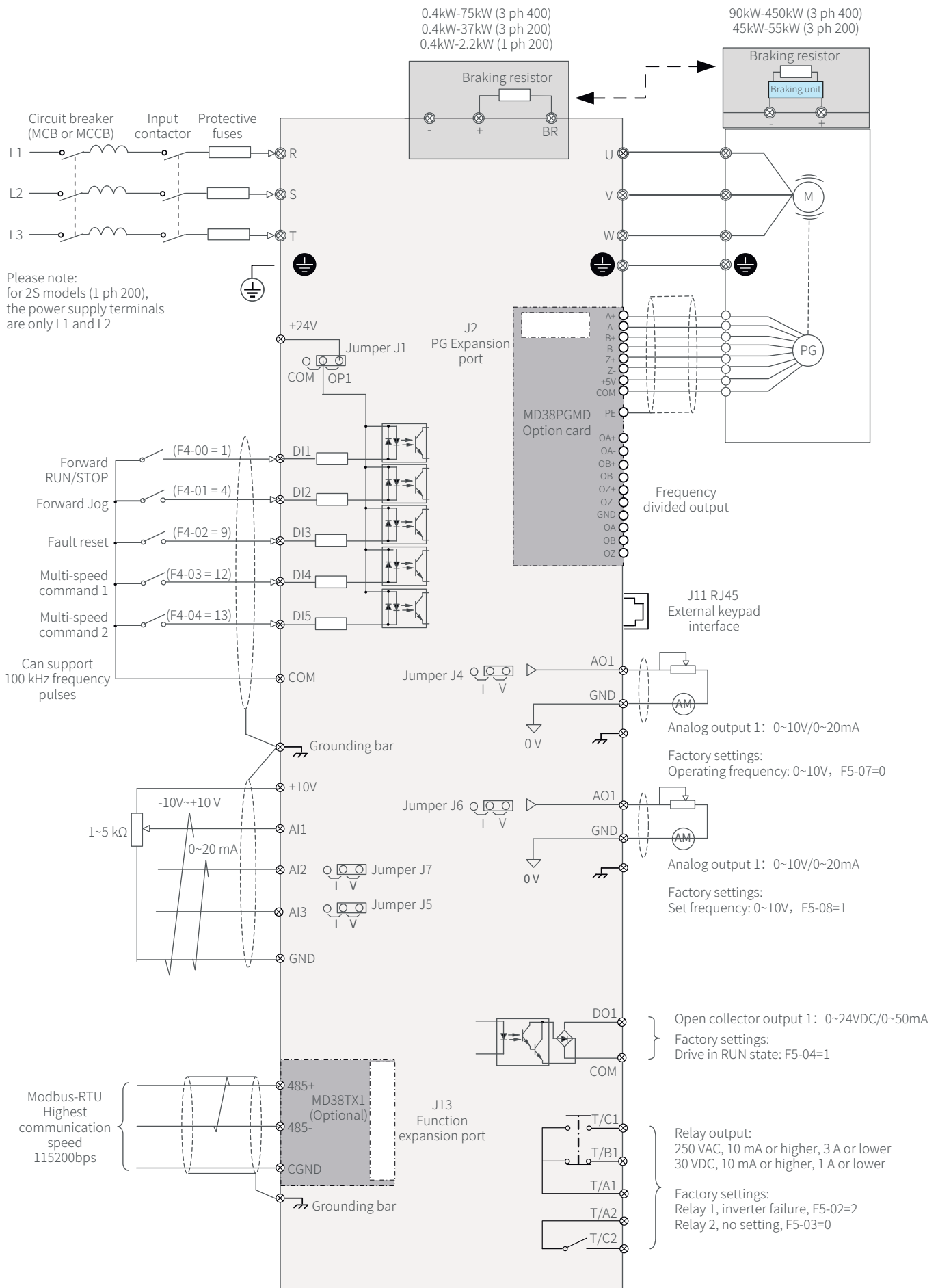
*3 Minimum value of the resistance for each braking unit.

*4 For the standard AC drive, we recommend motor cable lengths to be <100 m. Where your installation exceeds 100 m, the "L" version is an option with a built-in AC output reactor (1% voltage drop) which can help to overcome the effects of long cable installations. To discuss your application, contact your local Inovance representative.



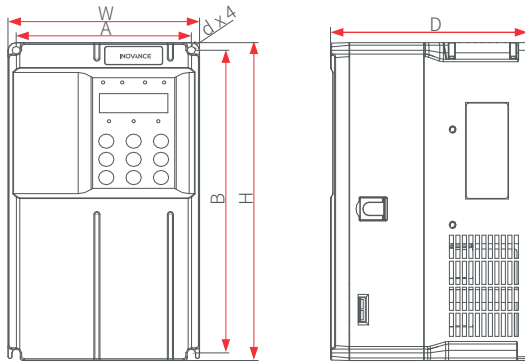
Suitable for compressors requiring
150% overload and/or vector control

General wiring diagram

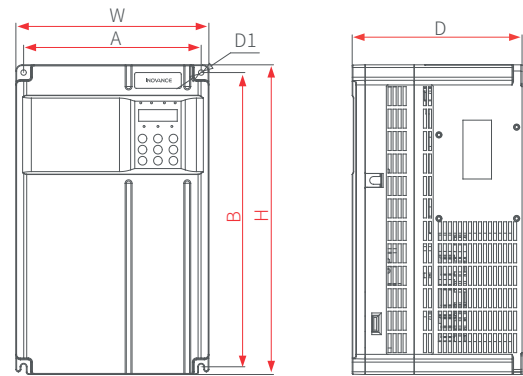


Dimensions

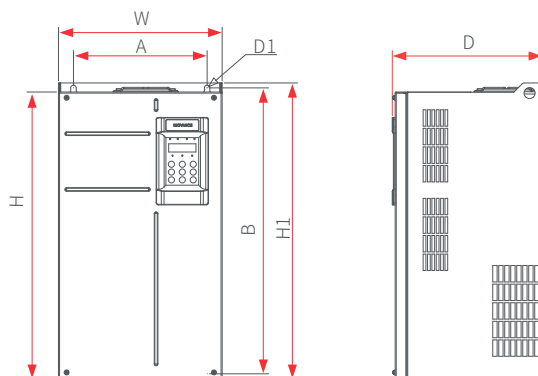
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MD500-2T0.4G/0.7PB-PLUS-INT to MD500-2T7.5G/11PB-PLUS-INT
MD500-2S0.4GB-PLUS-INT to MD500-2S2.2GB-PLUS-INT



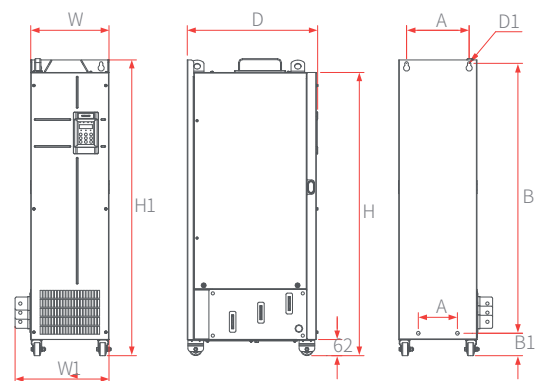
MD500T18.5G/22PB-PLUS-INT to MD500T37G/45PB-PLUS-INT
MD500-2T11G/15PB-PLUS-INT to MD500-2T18.5G/22PB-PLUS-INT



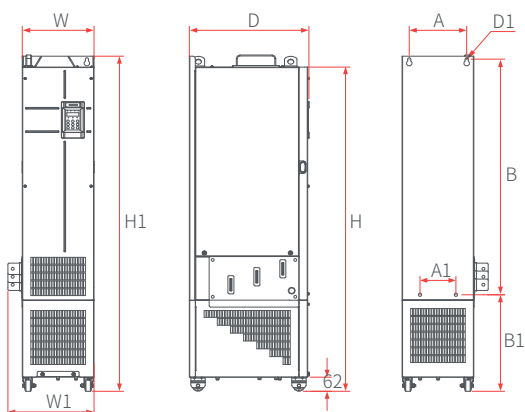
MD500T45G/55PB-PLUS-INT to MD500T160G/200P-PLUS-INT
MD500-2T22G/30PB-PLUS-INT to MD500-2T55G/75P-PLUS-INT



MD500T200G/250P-PLUS-INT to MD500T400G/500P-PLUS-INT,
MD500T450G-PLUS

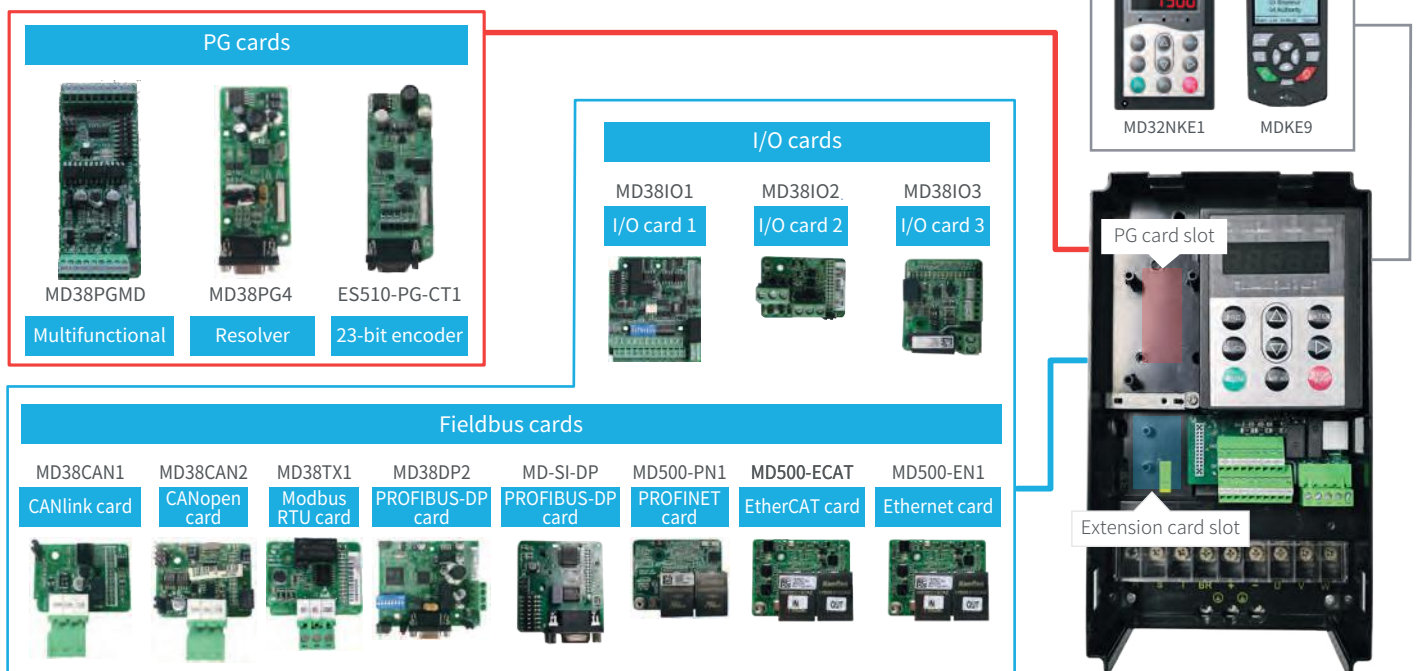


MD500T200G/250P-L-PLUS-INT to MD500T400G/500P-L-PLUS-INT,
MD500T450G-L-PLUS



MD500-PLUS Model	Frame size	Dimensions (mm)										Mass (kg)
		A	A1	B	B1	H	H1	W	W1	D	D1	
MD500T0.4G/0.7PB-PLUS-INT, MD500T0.7G/1.1PB-PLUS-INT, MD500T1.1G/1.5PB-PLUS-INT, MD500T1.5G/2.2PB-PLUS-INT, MD500T2.2G/3.0PB-PLUS-INT, MD500T3.0G/3.7PB-PLUS-INT, MD500-2T0.4G/0.7PB-PLUS-INT, MD500-2T0.7G/1.1PB-PLUS-INT, MD500-2T1.1G/1.5PB-PLUS-INT, MD500-2T1.5G/2.2PB-PLUS-INT, MD500T3.7G/5.5PB-PLUS-INT, MD500T5.5G/7.5PB-PLUS-INT, MD500-2S0.4GB-PLUS-INT to MD500-2S2.2GB-PLUS-INT, MD500-2T2.2G/3.7PB-PLUS-INT, MD500-2T3.7G/5.5PB-PLUS-INT	T1	119	/	189	/	200	/	130	/	152	Ø5	1.6
MD500T7.5G/11PB-PLUS-INT, MD500T11G/15PB-PLUS-INT, MD500-2T5.5G/7.5PB-PLUS-INT	T2	119	/	189	/	200	/	130	/	162	Ø5	2.0
MD500T7.5G/11PB-PLUS-INT, MD500T11G/15PB-PLUS-INT, MD500-2T5.5G/7.5PB-PLUS-INT	T3	128	/	238	/	250	/	140	/	170	Ø6	3.3
MD500T15G/18.5PB-PLUS-INT, MD500-2T7.5G/11PB-PLUS-INT	T4	166	/	266	/	280	/	180	/	170	Ø6	4.3
MD500T18.5G/22PB-PLUS-INT, MD500T22G/30PB-PLUS-INT, MD500-2T11G/15PB-PLUS-INT	T5	195	/	335	/	350	/	210	/	192	Ø6	10
MD500T30G/37PB-PLUS-INT, MD500T37G/45PB-PLUS-INT, MD500-2T15G/18.5PB-PLUS-INT, MD500-2T18.5G/22PB-PLUS-INT	T6	230	/	380	/	400	/	250	/	220	Ø7	17.5
MD500T45G/55PB-PLUS-INT, MD500T55G/75PB-PLUS-INT, MD500-2T22G/30PB-PLUS-INT, MD500-2T30G/37PB-PLUS-INT	T7	245	/	523	/	525	542	300	/	275	Ø10	35
MD500T75G/90PB-PLUS-INT, MD500T90G/110P-PLUS-INT, MD500T110G/132P-PLUS-INT, MD500-2T37G/45PB-PLUS-INT, MD500-2T45G/55P-PLUS-INT, MD500-2T55G/75P-PLUS-INT	T8	270	/	560	/	554	580	338	/	315	Ø10	51.5
MD500T132G/160P-PLUS-INT, MD500T160G/200P-PLUS-INT	T9	320	/	890	/	874	915	400	/	320	Ø10	85
MD500T200G/250P-PLUS-INT, MD500T220G/280P-PLUS-INT, MD500T200G/250P-L-PLUS-INT, MD500T220G/280P-L-PLUS-INT	T10	240	150	1,035	86	1,086	1,134	300	360	500	Ø13	110
		240	150	1,035	424	1,424	1,472	300	360	500	Ø13	160
MD500T250G/315P-PLUS-INT, MD500T280G/355P-PLUS-INT, MD500T250G/315P-L-PLUS-INT, MD500T280G/355P-L-PLUS-INT	T11	225	185	1,175	97	1,248	1,284	330	390	545	Ø13	155
		225	185	1,175	435	1,586	1,622	330	390	545	Ø13	215
MD500T315G/400P-PLUS-INT, MD500T355G/450P-PLUS-INT, MD500T400G/500P-PLUS-INT, MD500T450G-PLUS, MD500T315G/400P-L-PLUS-INT, MD500T355G/450P-L-PLUS-INT, MD500T400G/500P-L-PLUS-INT, MD500T450G-L-PLUS	T12	240	200	1,280	101	1,355	1,405	340	400	545	Ø16	185
		240	200	1,280	432	1,683	1,733	340	400	545	Ø16	245

Extension cards and mounting position



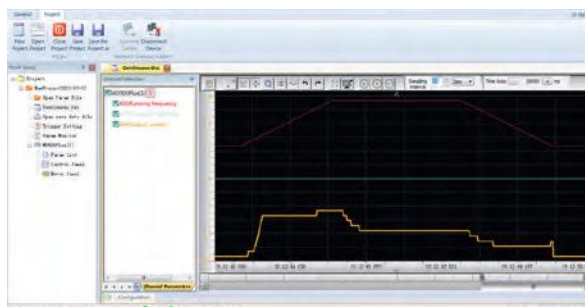
PC software tools

InoDriverShop

InoDriverShop is Inovance's PC-based software offering. It is based on a familiar Windows interface. InoDriverShop can upload and download drive parameters, and features a variety of other functions, such as a real-time oscilloscope



Parameter uploading/downloading



Multi channel oscilloscope

Accessories list

Category	Model	Function description	Suitable for
External braking units	MDBUN-60-2T	External braking unit, rated current 60 A, for supply input voltage 200 to 240 Vac AC drives.	2T models: 45 G - 55 G
	MDBUN-200-5T	External braking unit, rated current 200 A, for supply input voltage 380 to 480 Vac AC drives.	T models: 200 G - 450 G
	MDBUN-60-5T	External braking unit, rated current 60 A, for supply input voltage 380 to 480 Vac AC drives.	T models: 90 G - 110 G
	MDBUN-90-5T	External braking unit, rated current 90 A, for supply input voltage 380 to 480 Vac AC drives.	T models: 132 G - 160 G
Keypads	MD32NKE1	Remote LED keypad. Includes MDCAB cable.	All
	MDKE9	Remote LCD keypad. For parameter programming and monitoring, data copy (for various MD series). Includes MDCAB cable.	All
	MDCAB	3 meter connection cable for remote keypad.	All
	MDCAB-1.5	1.5 meter connection cable for remote keypad.	All
I/O cards	MD38IO1	I/O extension card 1, provides: 5x DI, 1x AI, 1x relay output, 1x DO, 1x AO, Modbus-RTU and CANlink.	Frame sizes T4-T12
	MD38IO2	I/O extension card 2, provides 3x extra DI terminals.	All
	MD38IO3	I/O extension card 3, provides 3x DI, 1x relay output, Modbus-RTU interface.	All
Fieldbus cards	MD500-ECAT	EtherCAT option card.	All
	MD500-EN1	Ethernet option card.	All
	MD38CAN1	CANlink bus card, supports only CANlink.	All
	MD38CAN2	CANopen bus card, supports only CANopen.	All
	MD38TX1	Modbus-RTU option card.	All
	MD38DP2	PROFIBUS-DP option card.	Frame sizes T4-T12
	MD-SI-DP	PROFIBUS-DP option card (designed for smaller frames).	All
	MD500-PN1	PROFINET option card.	All
PG cards	MD38PG4	Interface card for resolver (10 kHz excitation) with DB9 connector.	All
	MD38PGMD	Multifunctional encoder card, compatible with differential, open-collector and push-pull encoder types. Supports differential output and open-collector output.	All
PC comms kit	ES510-PG-CT1	23-bit encoder card.	All
	MDPCKIT02	Kit for connection with a personal computer, to be used with PC software tools.	All
Mounting brackets	MD500-AZJ-A1T1	Through hole mounting bracket - MD290/MD500 for frame T1.	Frame size T1
	MD500-AZJ-A1T2	Through hole mounting bracket - MD290/MD500 for frame T2.	Frame size T2
	MD500-AZJ-A1T3	Through hole mounting bracket - MD290/MD500 for frame T3.	Frame size T3
	MD500-AZJ-A1T4	Through hole mounting bracket - MD290/MD500 for frame T4.	Frame size T4
	MD500-AZJ-A1T5	Through hole mounting bracket - MD290/MD500 for frame T5.	Frame size T5
	MD500-AZJ-A1T6	Through hole mounting bracket - MD290/MD500 for frame T6.	Frame size T6
	MD500-AZJ-A1T7	Through hole mounting bracket - MD290/MD500 for frame T7.	Frame size T7
	MD500-AZJ-A1T8	Through hole mounting bracket - MD290/MD500 for frame T8.	Frame size T8
	MD500-AZJ-A1T9	Through hole mounting bracket - MD290/MD500 for frame T9.	Frame size T9
Guide rails	MD500-AZJ-A3T10	Guide rails for inserting in/ extracting from the cabinet - frame sizes T10 to T12.	Frame sizes T10-T12

Driven by technology

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AC MultiDrives



MV drives



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Multi-Axis servos



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