

MD Series

MD200, MD290, MD500(E), MD810

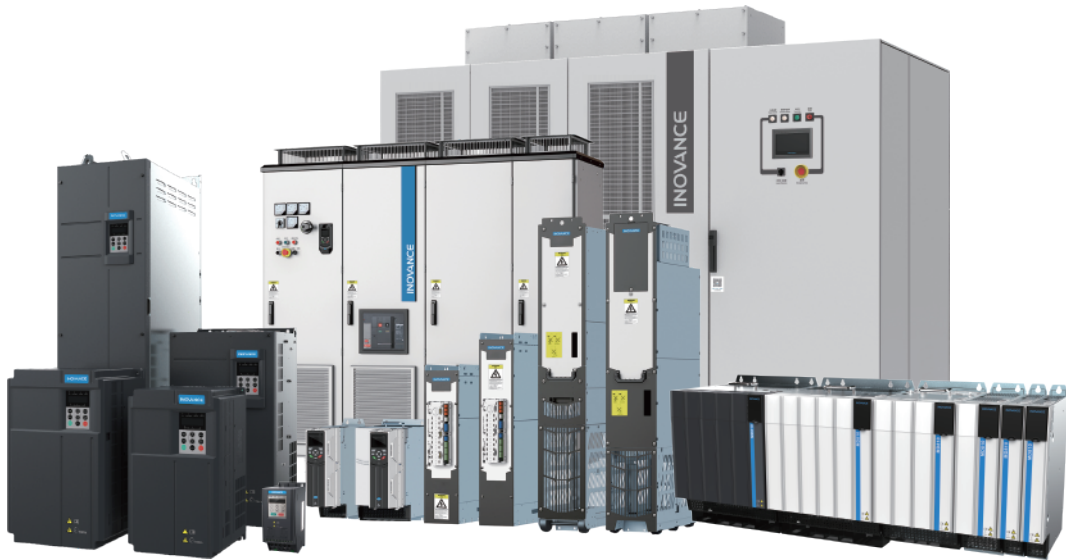
Open loop V/F & SVC 제어

Closed loop FVC 제어



YOUR PARTNER FOR INDUSTRIAL AUTOMATION SOLUTIONS

AC Drive overview



Low-voltage Drive: MD series

- Power range: 0.4 ~ 500kW
- Single & Multi Drive

Industrial Drive: MD880, HE series

- Power range: 3.7 ~ 5600kW
- Stand-alone & Multi system Drive

Medium-voltage Drive: HD series

- Voltage range: 1140V ~ 10kV
- Two&Four Quadrant control, AFE

Integrated Drive

- Customized AC Drive for Industry
- Elevator, Air compressor, Crane, Textile

MD series

MD290 T 0.4G/0.7P B - INT

Mark	Product series
MD200	MD200 Series
MD290	MD290 Series
MD500	MD500 Series
MD500E	MD500E Series

*1

*1 MD500E : PM 모터 전용

Mark	용량
0.4	0.4kW
~	~
500	500kW

Mark	전원 사양
S	단상 200~240V
T	3상 380~480V

Mark	부하 사양
N/A, G	일반 부하
P	팬/펌프 부하

Mark	제동 유닛
N/A	-
B	In-built braking unit

MD200 Micro Drive

Features

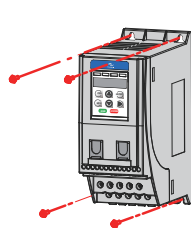
- 용량
 - 0.4 ~ 2.2kW, 단상 220Vac
 - 0.4 ~ 3.7kW, 3상 380Vac
- 제어 방식
 - Open-loop V/F & SVC^{*1}
- 최대 주파수 500Hz
- 초기 기동 토크
 - 150% at 3Hz in SVC
- 통신 지원
 - Modbus-RTU, CANlink^{*2}
- 설치 편의성 강화
 - Side by Side 설치, DIN Rail 설치
- 제동 유닛 내장
- EMC Filter 내장 (C2 Class)
- PCB 코팅을 통한 방진효과 강화



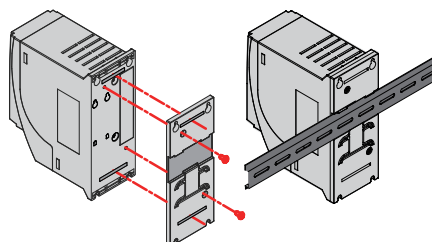
Notes

*1 SVC(Sensorless Vector Control) 제어는 3상 제품에서만 지원합니다.

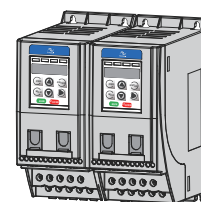
*2 CANlink는 Inovance 전용통신입니다.



Wall Mounted



DIN Rail Mounted



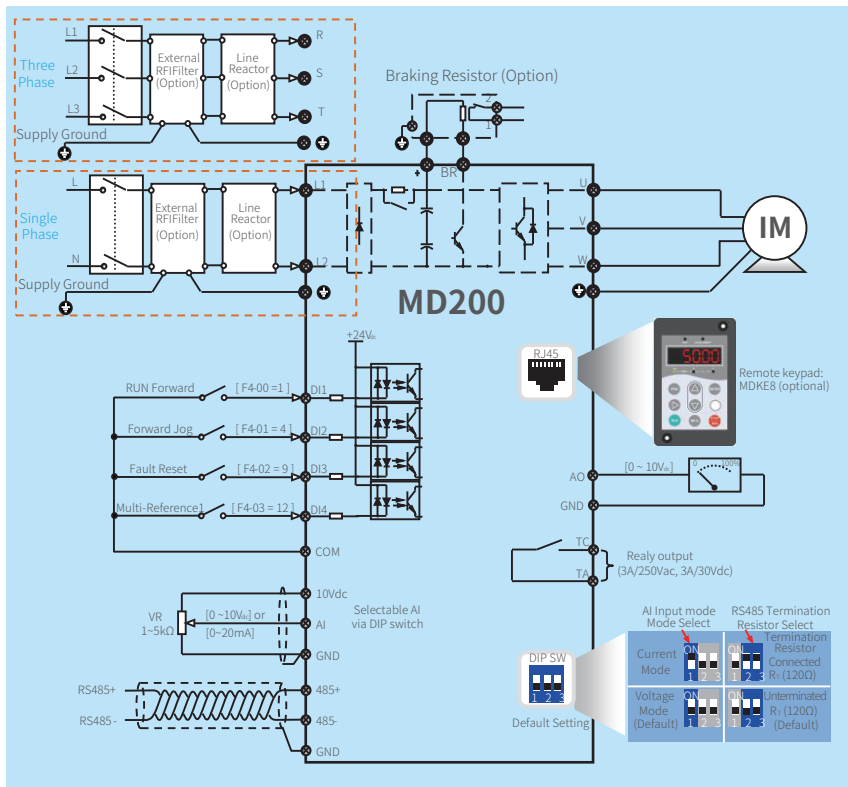
Side-by-Side

General Specifications

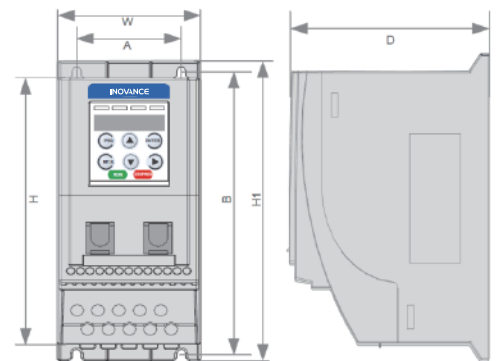
Voltage Class			Single-phase 220 Vac				Three-phase 400 Vac				
Drive Model: MD200xxxB-INT			S0.4B	S0.75B	S1.5B	S2.2B	T0.4B	T0.75B	T1.5B	T2.2B	T3.7B
Dimension		Height Width Depth	[H1]: 180 mm [W]: 75 mm [D]: 145 mm				[H1]: 180 mm [W]: 75 mm [D]: 145 mm				
Drive Input	Rated input voltage		Single-phase, 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%								
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]		2.6	4.6	8	11	1.8	3.4	4.8	5.5	9.5
	Overload Capacity		150% for 60 Sec								
	Max. output voltage ³		200 to 240 Vac				380 to 480 Vac				
	Max. output frequency		500 Hz								
Braking Resistor	Recommended power [kW]		80	80	100	100	150	150	250	300	400
	Recommended resistance [Ω]		≥200	≥150	≥100	≥70	≥300	≥300	≥220	≥200	≥130
Enclosure			IP 20								

*3 입력 전원에 따라 출력전압이 변화할 수 있습니다.

General Connection Diagram



Dimension



Remote Keypad MDKE8 (optional)



Model: MDKE8 (LED type)
Dimension: 116Hx76Wx40D(mm)
Protection level: IP20
Matching Cable Model:
 MDCAB 3.0m (included)
 Speed potentiometer (single turn)

MD290 General-purpose Drive



Features

- 용량
 - 0.4 ~ 500kW, 3상 380Vac
- 제어 방식
 - Open-loop V/F
- 최대 주파수 500Hz
- 통신 지원
 - Modbus-RTU, Profibus-DP
 - CANopen, CANlink^{*1}
- Dual rating 지원 (ND, HD)
- 사용 편의성 강화
 - 아날로그 입/출력 변경 (V, I)
- 설치 편의성 강화
 - Through-hole mounting option 설치
- 제동 유닛 내장
- DC 리액터 내장

^{*1} CANlink는 Inovance 전용통신입니다.

General Specifications

Voltage Class		Three-phase 380 to 480 Vac										
Drive model: MD290TxxG/xxPB-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						T2		T3		T4
Drive Input	Rated input voltage	Three-phase, 380 to 480 Vac, -15% to +10%										
	Rated input current [A]	1.8/2.5	2.4/3.7	3.7/4.6	4.6/6.4	6.3/9.1	9.0/11.3	11.4/15.9	16.7/22.4	21.9/32.9	32.2/39.7	41.3/44
	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]	0.4/0.7	0.7/1.1	1.1/1.5	1.5/2.2	2.2/3.0	3.0/3.7	3.7/5.5	5.5/7.5	7.5/11	11/15	15/18.5
	Output current [A]	1.5/2.1	2.1/3.1	3.1/3.8	3.8/5.1	5.1/7.2	7.2/9.0	9.0/13	13/17	17/25	25/32	32/37
	Default carrier frequency [kHz]	6	6	6	6	6	6	6	6	6	6	6
	Overload capacity	G type: 150% for 60sec / P type: 110% for 60 Sec										
	Max. output voltage ²	Three-phase, 380 to 480 Vac										
	Max. output frequency	500 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
	Recommended resistance [Ω]	1450	800	500	380	260	190	150	100	75	50	38
Braking unit		Built-in										
Enclosure		IP 20										

Voltage Class		Three-phase 380 to 480 Vac										
Drive model: MD290TxxG/xxP-INT		18.5G/22P	22G/30P	30G/37P	37G/45P	45G/55P	55G/75P	75G/90P	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]	49.5/59	59/65.8	57/71	69/86	89/111	106/143	139/167	164/198	196/239	240/295	287/359
	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]	18.5/22	22/30	30/37	37/45	45/55	55/75	75/90	90/110	110/132	132/160	160/200
	Output current [A]	37/45	45/60	60/75	75/91	91/112	112/150	150/176	176/210	210/253	253/304	304/377
	Default carrier frequency [kHz]	6	6	6	5	5	4	3	3	3	3	3
	Overload capacity	G type: 150% for 60sec / P type: 110% for 60 Sec										
	Max. output voltage ²	Three-phase, 380 to 480 Vac										
	Max. output frequency	500 Hz										
Braking Resistor	Recommended power [kW]	4	4.5	6	7	9	11	15	18	22	26	32
	Recommended resistance [Ω]	32	27	20	16	13	10.5	7.7	6.4	5.3	4.4	3.6
Braking unit		Built-in							MDBUN-60-5T x2		MDBUN-90-5T x2	
Enclosure		IP 20										

Notes:

*2 입력 전원에 따라 출력전압이 변화할 수 있습니다.

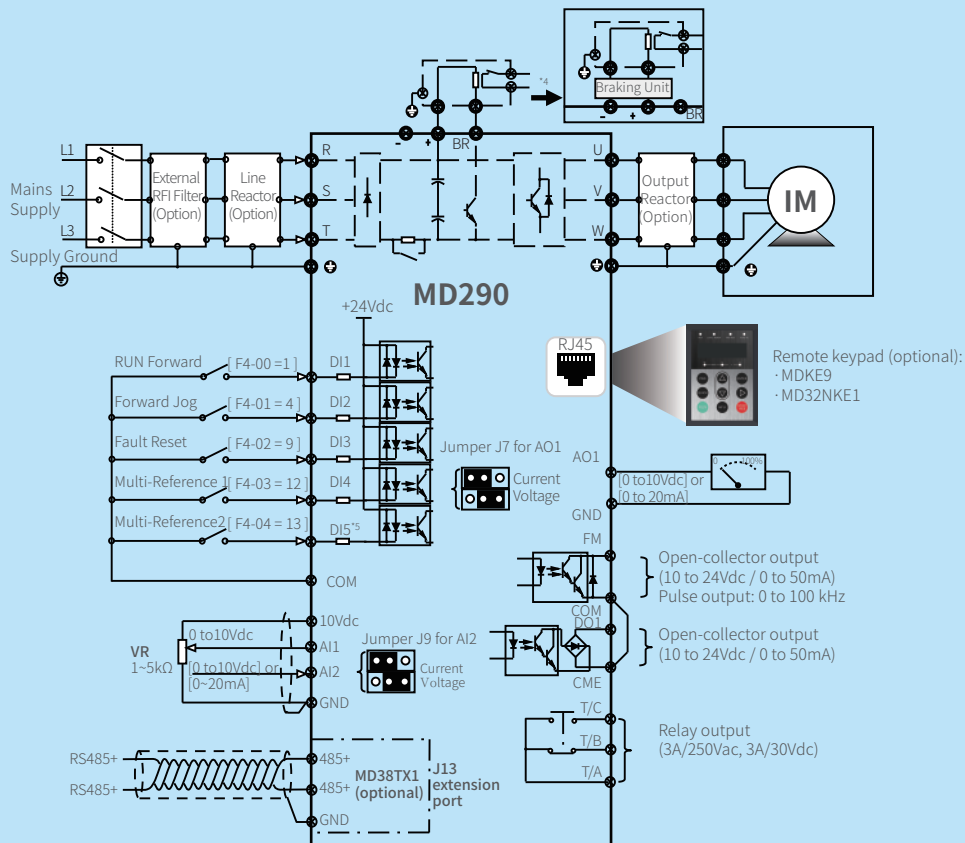
Voltage Class		Three-phase 380 to 480 Vac															
Drive Model: MD290Txxxx (-L) ³ -INT		200G	220P	220G	250P	250G	280P	280G	315P	315G	355P	355G	400P	400G	450P	450G	500P
Frame size		T10				T11				T12							
Drive Input	Rated input voltage	Three-phase, 380 to 480 Vac, -15% to +10%															
	Rated input current [A]	365	410	410	456	441	507	495	559	565	624	617	708	687	782	782	840
	Power capacity [kVA]	334	375	375	417	404	464	453	511	517	571	565	647	629	715	716	768
	Rated input frequency	50/60 Hz, ±5%															
Drive Output	Applicable motor [kW]	200	220	220	250	250	280	280	315	315	355	355	400	400	450	450	500
	Output current [A]	377	426	426	465	465	520	520	585	585	650	650	725	725	820	820	880
	Default carrier frequency [kHz]	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Overload capacity	G type: 150% for 60sec / P type: 110% for 60 Sec (130% for MD290T450G (-L))															
	Max. output voltage ²	Three-phase 380 to 480 Vac															
	Max. output frequency	500 Hz															
Braking Resistor	Recommended power [kW]	38	38	42	42	48	48	54	54	60	60	69	69	78	78	87	87
	Recommended resistance [Ω]	2.9	2.9	2.7	2.7	2.3	2.3	2.1	2.1	1.9	1.9	1.7	1.7	1.5	1.5	1.3	1.3
Braking unit		MDBU-200-C x2								MDBU-200-C x3							
Enclosure		IP 00															

Notes:

*2 입력 전원에 따라 출력전압이 변화할 수 있습니다.

*3 모터 배선거리는 100m 이내를 권장합니다. 만약 100m가 초과한다면 AC Reactor가 내장된 제품을 추천합니다.

General Connection Diagram



Notes:

*4 90kW(G type) 이상은 제동 유닛을 별도로 설치해야 합니다.

*5 DI5 단자는 펄스 입력 기능을 지원합니다. (최대 100kHz)

MD500 High-performance Drive



Features

- 용량
 - 0.4 ~ 450kW, 3상 380Vac
- 제어 방식
 - Open-loop V/F & SVC제어
 - Closed-loop FVC제어
 - PM Motor 제어^{*1}
- 기동 토크
 - 150% at 0.25Hz for SVC
 - 180% at 0Hz for FVC
- 최대 주파수 500Hz
- 속도 피드백 옵션 지원
 - Encoder, Resolver
- 통신 지원
 - Modbus-RTU, Profibus-DP, CANopen, CANlink^{*2}
- 사용 편의성 강화
 - 아날로그 입/출력 변경 (V, I)
- 설치 편의성 강화
 - Through-hole mounting option 설치

^{*1} MD500E에서 지원됩니다.

^{*2} CANlink는 Inovance 전용 통신입니다.

General Specifications

Voltage Class		Three-phase 380 to 480 Vac										
Drive model: MD500TxxxGx-INT		0.4GB	0.7GB	1.1GB	1.5GB	2.2GB	3.0GB	3.7GB	5.5GB	7.5GB	11GB	15GB
Frame size		T1						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
	Rated input frequency	50/60 Hz, ±5%										
Drive Output	Applicable motor [kW]	0.4	0.75	1.1	1.5	2.2	3.0	3.7	5.5	7.5	11	15
	Output current [A]	1.5	2.1	3.1	3.8	5.1	7.2	9.0	13	17	25	32
	Default carrier frequency [kHz]	6	6	6	6	6	6	6	6	6	6	6
	Overload capacity	150% for 60 Sec										
	Max. output voltage ³	Three-phase 380 to 480 Vac										
	Max. output frequency	500 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	3.0
	Recommended resistance [Ω]	1450	800	500	380	260	190	150	100	75	50	38
Braking unit		Built-in										
Enclosure		IP 20										

Voltage Class		Three-phase 380 to 480 Vac										
Drive model: MD500TxxxGx-INT		18.5GB	22GB	30GB	37GB	45GB	55GB	75GB	90G	110G	132G	160G
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]	49.5	59	57	69	89	106	139	164	196	240	287
	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]	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 Sec										
	Max. output voltage ³	Three-phase 380 to 480 Vac										
	Max. output frequency	500 Hz										
Braking Resistor	Recommended power [kW]	4	4.5	6	7	9	11	15	18	22	26	32
	Recommended resistance [Ω]	32	27	20	16	13	10.5	7.7	6.4	5.3	4.4	3.6
Braking unit		Built-in							MDBUN-60-5T		MDBUN-90-5T	
Enclosure		IP 20										

Notes:

*3 입력 전원에 따라 출력전압이 변화할 수 있습니다.

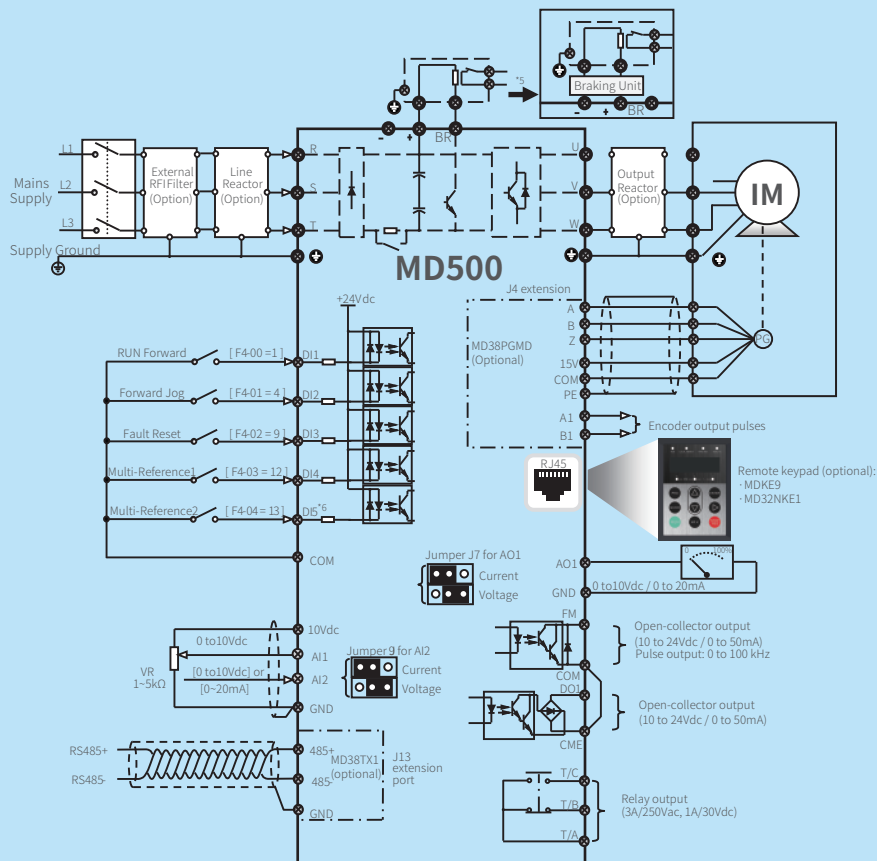
Voltage Class		Three-phase 380 to 480 Vac							
Drive model: MD500TxxxG (-L)*4-INT		200G (-L)	220G (-L)	250G (-L)	280G (-L)	315G (-L)	355G (-L)	400G (-L)	450G (-L)
Frame size		T10		T11		T12			
Drive Input	Rated input voltage	Three-phase 380 to 480 Vac, -15% to +10%							
	Rated input current [A]	365	410	441	495	565	617	687	782
	Power capacity [kVA]	334	375	404	453	517	565	629	716
	Rated input frequency	50/60 Hz, ±5%							
Drive Output	Applicable motor [kW]	200	220	250	280	315	355	400	450
	Output current [A]	377	426	465	520	585	650	725	820
	Default carrier frequency [kHz]	3	3	3	3	3	3	3	3
	Overload capacity	150% for 60 Sec							130% for 60 Sec
	Max. output voltage ³	Three-phase 380 to 480 Vac							
	Max. output frequency	500 Hz							
Braking Resistor	Recommended power [kW]	38	42	48	54	60	69	78	87
	Recommended resistance [Ω]	2.9	2.7	2.3	2.1	1.9	1.7	1.5	1.3
Braking unit		MDBU-200-C x2				MDBU-200-C x3			
Enclosure		IP 00							

Notes:

*3 입력 전원에 따라 출력전압이 변화할 수 있습니다.

*4 모터 배선거리는 100m 이내를 권장합니다. 만약 100m가 초과한다면 AC Reactor가 내장된 제품을 추천합니다.

General Wiring Diagram



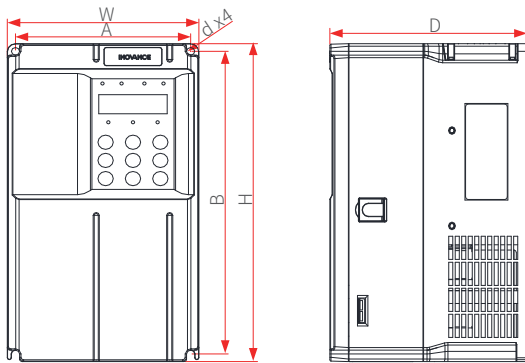
Notes:

*5 90kW 이상은 제동 유닛을 별도로 설치해야 합니다.

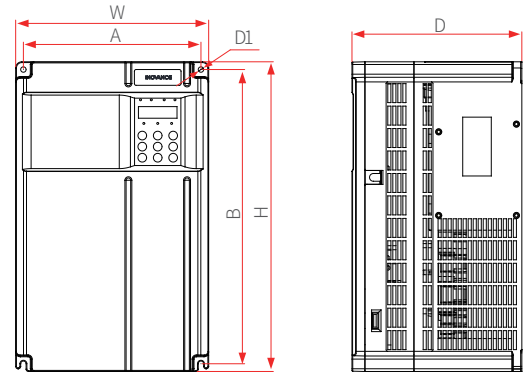
*6 DI5 단자는 펄스 입력 기능을 지원합니다. (최대 100kHz)

Dimensions(MD290&MD500)^{*7}

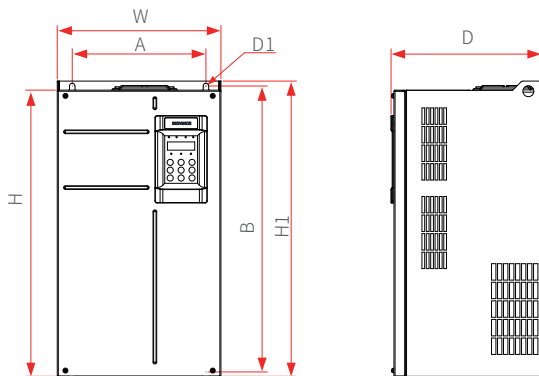
MD290T0.4G/0.75P-INT to MD290T15G/18.5P-INT
MD500T0.4GB-INT to MD500T15GB-INT



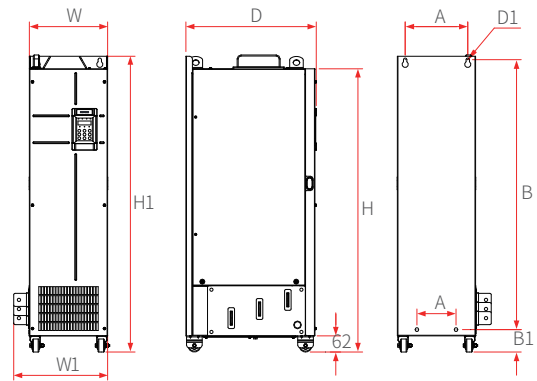
MD290T18.5G/22P-INT to MD290T37G/45P-INT
MD500T18.5GB-INT to MD500T37GB-INT



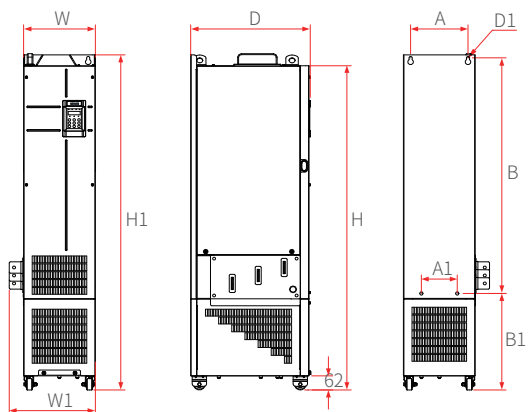
MD290T45G/55P-INT to MD290T160G/200P-INT
MD500T45GB-INT to MD500T160G-INT



MD290T200G/220P-INT to MD290T450G/500P-INT
MD500T200G-INT to MD500T450G-INT



MD290T200G/220P-L-INT to MD290T450G/500P-L-INT
MD500T200G-L-INT to MD500T450G-L-INT



Notes:

*7 MD290과 MD500의 하드웨어 플랫폼은 동일합니다.

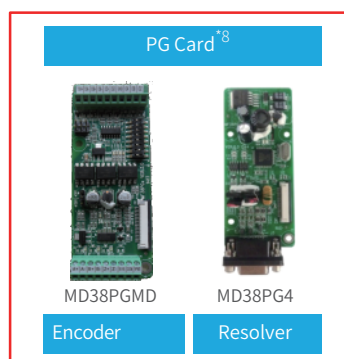
MD290 Model	Frame size	Dimensions (mm)										Weight (kg)
		A	A1	B	B1	H	H1	W	W1	D	D1	
MD290T0.4G/0.7PB-INT, MD290T0.7G/1.1PB-INT, MD290T1.1G/1.5PB-INT MD290T1.5G/2.2PB-INT, MD290T2.2G/3.0PB-INT, MD290T3.0G/3.7PB-INT	T1	119	/	189	/	200	/	130	/	152	Ø5	1.6
MD290T3.7G/5.5PB-INT, MD290T5.5G/7.5PB-INT	T2	119	/	189	/	200	/	130	/	162	Ø5	2.0
MD290T7.5G/11PB-INT, MD290T11G/15PB-INT	T3	129	/	238	/	250	/	140	/	170	Ø6	3.3
MD290T15G/18.5PB-INT	T4	166	/	266	/	280	/	180	/	170	Ø6	4.3
MD290T18.5G/22P-INT, MD290T22G/30P-INT	T5	195	/	335	/	350	/	210	/	192	Ø6	9.1
MD290T30G/37P-INT, MD290T37G/45P-INT	T6	230	/	380	/	400	/	250	/	220	Ø7	17.5
MD290T45G/55P-INT, MD290T55G/75P-INT	T7	245	/	523	/	525	542	300	/	275	Ø10	35
MD290T75G/90P-INT, MD290T90G/110P-INT, MD290T110G/132P-INT	T8	270	/	560	/	554	580	338	/	315	Ø10	51.5
MD290T132G/160P-INT, MD290T160G/200P-INT	T9	320	/	890	/	874	915	400	/	320	Ø10	85
MD290T200G-INT, MD290T220P-INT, MD290T200G-INT, MD290T250P-INT	T10	240	150	1,035	86	1,086	1,134	300	360	500	Ø13	110
MD290T200G-L-INT, MD290T220P-L-INT, MD290T200G-L-INT, MD290T250P-L-INT		240	150	1,035	424	1,424	1,472	300	360	500	Ø13	160
MD290T250G-INT, MD290T280P-INT, MD290T280G-INT, MD290T315P-INT	T11	225	185	1,175	97	1,248	1,284	330	390	545	Ø13	155
MD290T250G-L-INT, MD290T280P-L-INT, MD290T280G-L-INT, MD290T315P-L-INT		225	185	1,175	435	1,586	1,622	330	390	545	Ø13	215
MD290T315G-INT, MD290T355P-INT, MD290T355G-INT, MD290T400P-INT, MD290T400G-INT, MD290T450P-INT, MD290T450G-INT, MD290T500P-INT	T12	240	200	1,280	101	1,355	1,405	340	400	545	Ø16	185
MD290T315G-L-INT, MD290T355P-L-INT, MD290T355G-L-INT, MD290T400P-L-INT, MD290T400G-L-INT, MD290T450P-L-INT, MD290T450G-L-INT, MD290T500P-L-INT		240	200	1,280	432	1,683	1,733	340	400	545	Ø16	245

MD500 Model	Frame size	Dimensions (mm)										Weight (kg)
		A	A1	B	B1	H	H1	W	W1	D	D1	
MD500T0.4GB-INT, MD500T0.7GB-INT, MD500T1.1GB-INT MD500T1.5GB-INT, MD500T2.2GB-INT, MD500T3.0GB-INT	T1	119	/	189	/	200	/	130	/	152	Ø5	1.6
MD500T3.7GB-INT, MD500T5.5GB-INT	T2	119	/	189	/	200	/	130	/	162	Ø5	2.0
MD500T7.5GB-INT, MD500T11GB-INT	T3	128	/	238	/	250	/	140	/	170	Ø6	3.3
MD500T15GB-INT	T4	166	/	266	/	280	/	180	/	170	Ø6	4.3
MD500T18.5GB-INT, MD500T22GB-INT	T5	195	/	335	/	350	/	210	/	192	Ø6	9.1
MD500T30GB-INT, MD500T37GB-INT	T6	230	/	380	/	400	/	250	/	220	Ø7	17.5
MD500T45GB-INT, MD500T55GB-INT	T7	245	/	523	/	525	542	300	/	275	Ø10	35
MD500T75GB-INT, MD500T90G-INT, MD500T110G-INT	T8	270	/	560	/	554	580	338	/	315	Ø10	51.5
MD500T132G-INT, MD500T160G-INT	T9	320	/	890	/	874	915	400	/	320	Ø10	85
MD500T200G-INT, MD500T220G-INT	T10	240	150	1,035	86	1,086	1,134	300	360	500	Ø13	110
MD500T200G-L-INT, MD500T220G-L-INT		240	150	1,035	424	1,424	1,472	300	360	500	Ø13	160
MD500T250G-INT, MD500T280G-INT	T11	225	185	1,175	97	1,248	1,284	330	390	545	Ø13	155
MD500T250G-L-INT, MD500T280G-L-INT		225	185	1,175	435	1,586	1,622	330	390	545	Ø13	215
MD500T315G-INT, MD500T355G-INT, MD500T400G-INT, MD500T450G-INT	T12	240	200	1,280	101	1,355	1,405	340	400	545	Ø16	185
MD500T315G-L-INT, MD500T355G-L-INT, MD500T400G-L-INT, MD500T450G-L-INT		240	200	1,280	432	1,683	1,733	340	400	545	Ø16	245

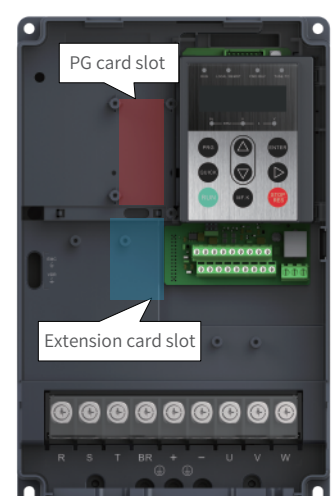
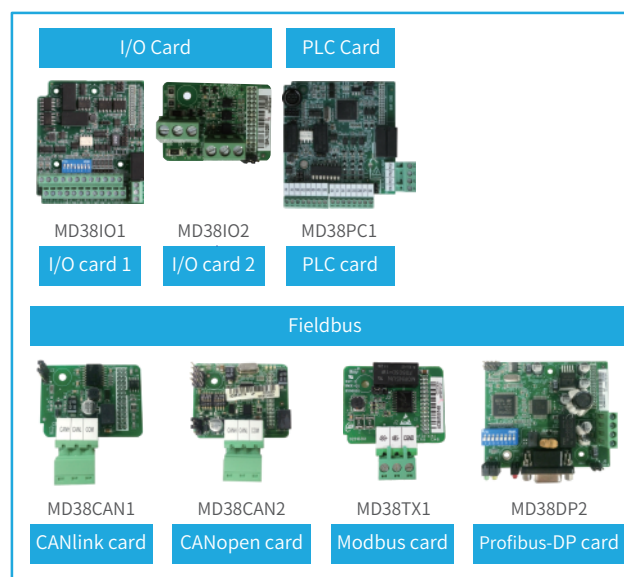
Accessories List

Category	Model	Function description	Suitable for	Part No.
Braking unit	MDBU-200-C	External braking unit, rating 200 A for braking current, for input 380 to 480 Vac AC Drive	200 to 450 kW	To be advised
	MDBUN-60-5T	External braking unit, rating 60 A for braking current, for input 380 to 480 Vac AC Drive	90 to 110 kW	To be advised
	MDBUN-90-5T	External braking unit, rating 90 A for braking current, for input 380 to 480 Vac AC Drive	132 to 160 kW	To be advised
Keypad	MD32NKE1	Remote LED keypad.	All	01013061
	MDKE9	Remote LCD Keypad.	All	01040037
	MDCAB	3-meter connecting cable for remote keypad.	All	01013008
	MDCAB-1.5	1.5-meter connecting cable for remote keypad.	All	15048471
I/O card	MD38IO1	I/O extension card 1, 5x DI, 1x AI, 2x DO(Really A/B&Open collector), 1x AO, Modbus-RTU and CANlink.	15 to 450 kW	01013098
	MD38IO2	I/O extension card 2, provides 3x extra DI terminals.	All	01013103
PLC card	MD38PC1	PLC card, completely compatible with the Inovance PLC.	15 to 450 kW	01013104
Fieldbus	MD38CAN1	CANlink communication card	All	01013100
	MD38CAN2	CANopen communication card	All	01013102
	MD38TX1	Modbus-RTU communication card	All	01013112
	MD38DP2	Profibus-DP communication card (Modbus gateway)	15 to 450 kW	01013144
PG card	MD38PG4	Resolver interface card	All	01013081
	MD38PGMD	Encoder interface card	All	01013147
Mounting bracket	MD500-AZJ-A1T1	Through-hole Mounting Bracket for Frame size 1.	0.4 to 3.0 kW	01040072
	MD500-AZJ-A1T2	Through-hole Mounting Bracket for Frame size 2.	3.7 to 5.5 kW	01040073
	MD500-AZJ-A1T3	Through-hole Mounting Bracket for Frame size 3.	7.5 to 11 kW	01040074
	MD500-AZJ-A1T4	Through-hole Mounting Bracket for Frame size 4.	15 kW	01040075
	MD500-AZJ-A1T5	Through-hole Mounting Bracket for Frame size 5.	18.5 to 22 kW	01040001
	MD500-AZJ-A1T6	Through-hole Mounting Bracket for Frame size 6.	30 to 37 kW	01040002
	MD500-AZJ-A1T7	Through-hole Mounting Bracket for Frame size 7.	45 to 55 kW	01040003
	MD500-AZJ-A1T8	Through-hole Mounting Bracket for Frame size 8.	75 to 110 kW	01040004
	MD500-AZJ-A1T9	Through-hole Mounting Bracket for Frame size 9.	132 to 160 kW	01040005
	MD500-AZJ-A3T10	Assemble the guide rail for frame size T10 to T12.	200 to 450 kW	01040009

Extension Cards and Mounting Position



*8 PG Card는 MD500제품만 지원합니다.



MD810

DC common Multi Drive

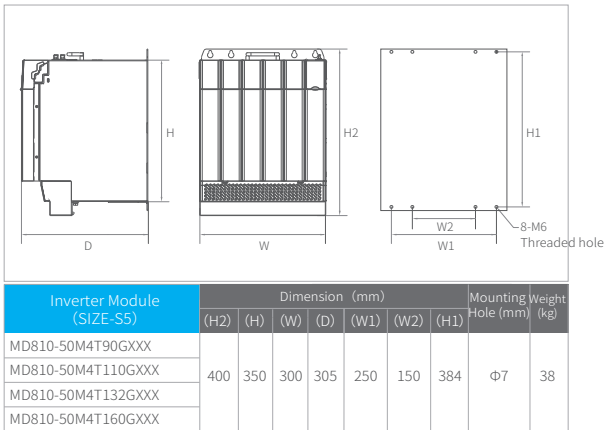
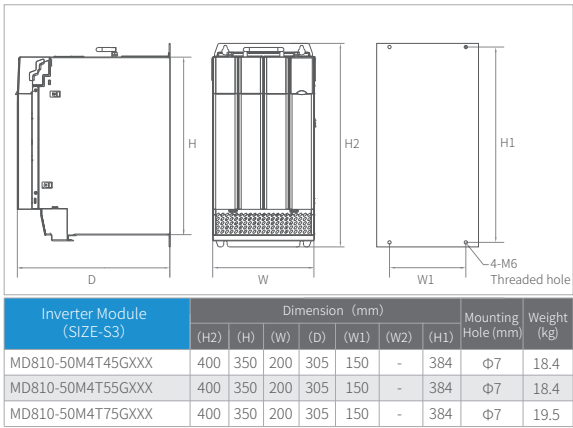
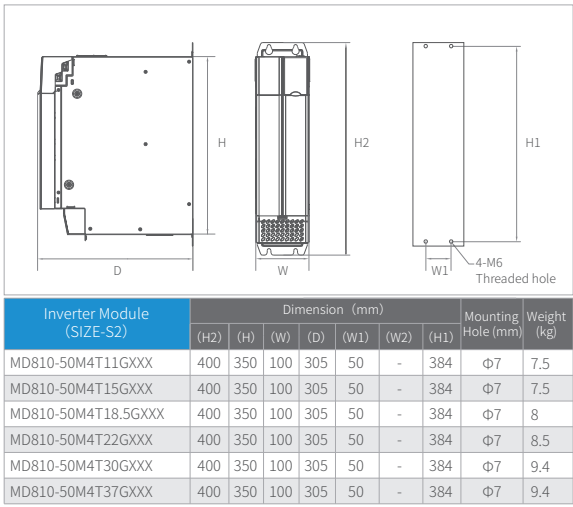
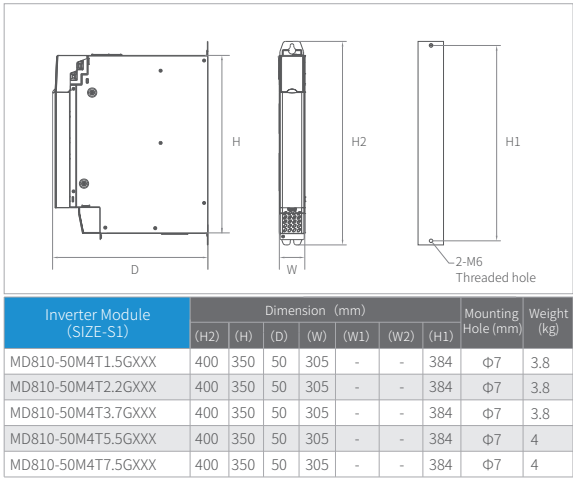


Features

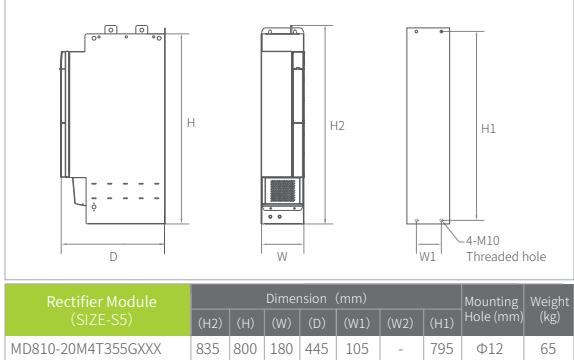
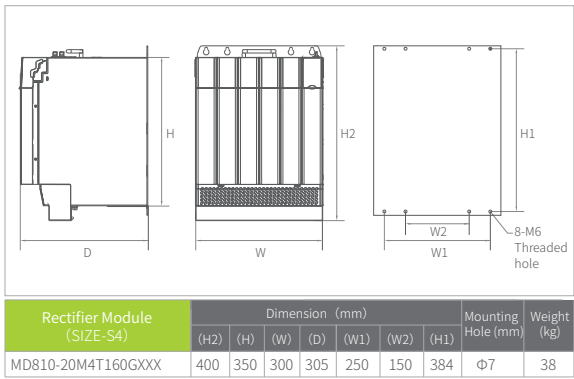
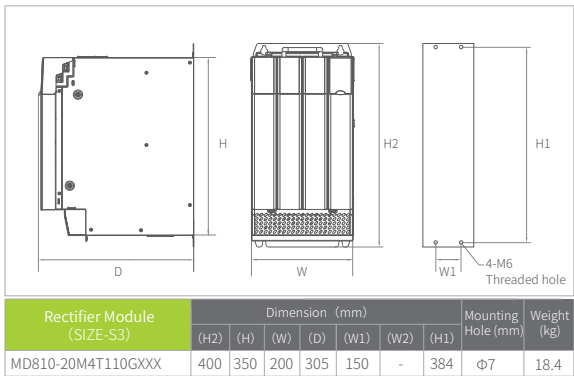
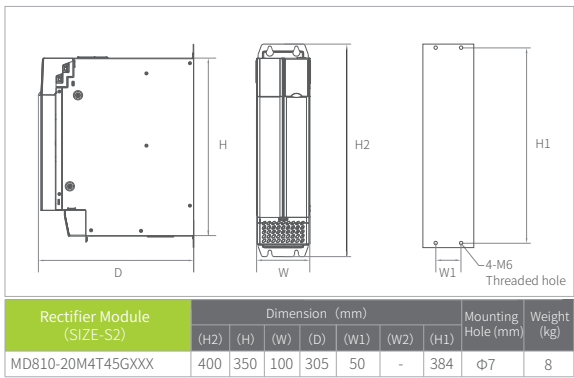
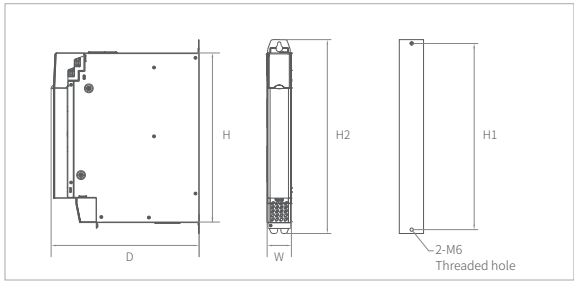
- 용량
 - Rectifier: 22 ~ 355kW, 3상 380Vac
 - Drive: 1.5 ~ 160, 3상 380Vac
- 제어 방식
 - Open-loop V/F & SVC 제어
 - Closed-loop FVC 제어
 - PM Motor 제어
- 통신 지원
 - Modbus-RTU, Profibus-DP, CANopen, CANlink*¹
- 사용 및 설치 편의성 강화
 - Multi-lack type Drive (개별 제어가능)
 - Dual PID Control
 - Winder/Unwinder mode
- 제품 설치 공간 및 판넬 설비 절약

*1 CANlink는 Inovance 전용 통신입니다.

Dimensions-Inverter Module



Dimensions-Rectifier Module



Servo Drive

IS620N EtherCAT® IS620P Pulse/Direction IS620P CO CANopen® IS620P-CO-Embedded Motion

- 단상/삼상 220Vac
- 삼상 380~480Vac
- 0.1kW~7.5kW
- 전자 캠 기능
- 원점 복귀 기능 내장
- 보조 엔코더 피드백 지원
- Embedded Motion 내장



Multi Drive

IS810Q Servo Drive

- DC Common bus 파워 서플라이 유닛
- Single/Dual 축 모듈
- 삼상 380~480Vac
- 0.75~75kW

MD810 MultiDrive

- DC Common bus 파워 서플라이 유닛
- 삼상 380~480Vac
- Rectifier: 22~355kW
- Drive: 1.5~160kW

SV820 Servo Drive

- DC Common bus 파워 서플라이 유닛
- 4축 모듈
- 단상/삼상 220Vac
- 0.05~1.0kW

AC Drive

MD200: Open Loop V/F

- 단상 220Vac
- 삼상 380~480Vac
- 0.4~3.7kW

MD290: Open Loop V/F

- 삼상 380~480Vac
- 0.4~500kW (Dual rating)

MD500: Open Loop V/F & SVC & FVC

- 삼상 380~480Vac
- 0.4~450kW

V/F = 전압/주파수 비례 제어
SVC = 센서리스 벡터 제어
FVC = 벡터 제어



PLC & HMI

H3u

- 64kByte 메모리 영역
- 3축 전자 캠
- 보안 제어 지원 (2축 원호, 3축 직선)
- 최대 200kHz의 고속 입력 지원

AM600

- 10Mbyte 프로그램 영역
- 1.2Mbyte 데이터 저장
- EtherCAT
- Ethernet 포트/Modbus 마스터
- 프로그래밍 언어: IEC61131-3 PLCOpen

IT6000

- 고 분해능 디스플레이
- Modbus RTU 및 TCP/IP
- 3개의 시리얼 포트 및 Ethernet 포트
- 유저 메모리 128MB 플래쉬