











Product Catalog

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V24.031

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02

HMI/PLC all-in-one

QM3G HMI/PLC all-in-one | MX3G HMI/PLC all-in-one

QM3G HMI/PLC all-in-one

Image

QM3G-43FH



QM3G-50FH



QM3G-70FH/HD



QM3G-70KFH



QM3G-100FH



Product specifications

Model	QM3G-43FH	QM3G-50FH	QM3G-70FH/HD	QM3G-70KFH	QM3G-100FH
Dimension	134*102*34mm	151*96*36mm	200*146*36mm	226*163*35.6mm	275*194*35.6mm
Cutout size	120*94mm	143*86mm	192*138mm	217*154mm	262*180mm
Input	24VDC				
Power Consumption	4-6W	5-7W	6-7W	6-7W	6-8W
HMI					
Feature	60K colors resistive touch screen, supports portrait display				
Type	4.3"TFT	5"TFT	7.0"TFT	7.0"TFT	10.1"TFT
Display size	97*56mm	108*65mm	154*87mm	154*87mm	222*125mm
Resolution(pixels)	480*272	800*480	800*480	800*480	1024*600
RAM	64MB (Please inquire if requires storing historical data)				
ROM	NOR Flash 8MB		NOR Flash 16MB		
CPU	32bit CPU 408MHZ				
COM ports	Type-C HMI download port (can download PLC program through the USB penetrating function), RS232 port			Type-B HMI download port (can download PLC program through the USB penetrating function), RS232	
Software	Coolmay mView HMI Programming Software				
PLC					
I/O level	-Input: Passive NPN, public terminal isolated -Transistor output: Low level NPN, COM connect to negative -Relay output: Normally open dry contact				
DO type and load	-MT: 2A/point, 4A/4 point COM, 5A/12 point COM -MR: 2A/point, 5A/12 point COM		--MT: 2A/point, 4A/4 points COM; MT: 0.5A/point, 0.8A/4 points COM, 1.6A/8 points COM -MR: 2A/point, 4A/4 points COM, 5A/12 points COM.		
High-speed counting	Single phase 6 channel 60KHz, or 2 AB 60KHz + 1 AB 10KHz, or 2 ABZ 60KHz + 1 AB phase 10KHz				
High-speed pulse(Only for MT models)	8 channels, Y0-Y3 is 100KHz, Y4-Y7 is 10KHz. High-speed counting + high-speed pulse < 480KHz				
COM port	1x TYPE-C, 1x RS232, 1x RS485			1x mini USB, 1x RS232, 1x RS485	
Software	Compatible with GX Developer8.86 and GX WORKS 2				

Detailed info. refer to: "Coolmay QM3G-FH All-in-One User Manual", "Coolmay CX3G/FX3GC PLC Programming Manual", "Coolmay TK HMI User Manual"

Optional functions

Product specifications

Model	I/O	Output	AI/AO	AI type	AO type	HMI COM port	PLC COM port
QM3G-43FH	12/12	MT	2/1 or 4/2(Maximum 3AI if thermocouple inputs)	-Thermocouple E/E_/K/K_/S/S_/T/T_/J/J_/ / PT100/ PT1000/ NTC10K/ NTC50K/ NTC100K/ -0~10V/ 0~5V -0~20mA/ 4~20mA -Mixed	-0~10V / 0~5V -0~20mA/ 4~20mA Mixed		-2x RS485 (one of which is changed from the default RS232 port) -1x WIFI (occupy default RS232 port)
QM3G-43FH	12/12	MR					
QM3G-50FH	12/12	MT					
QM3G-50FH	12/12	MR					-2x RS485 (one of which is changed from the default RS232 port) -1x WIFI (occupy default RS232 port) -1x Ethernet port
QM3G-70FH	12/12	MT	2/1 or 4/2 or 6/4 or 8/4 or 12/8	-Thermocouple E/E_/K/K_/S/S_/T/T_/J/J_/ / PT100/ PT1000/ NTC10K/ NTC50K/ NTC100K/ -0~10V/ 0~5V/ -5V~5V/ -10V~10V -0~20mA/ 4~20mA Mixed	-0~10V / 0~5V/ -5~5V/ -10~10V (2AO for 1 minus voltage) -0~20mA/ 4~20mA -Mixed/	-1x RS485 (occupy default RS232 port)	-2 RS485 COM ports (one of which is changed from the default RS232 port) -1 WIFI (occupy default RS232 port) -1x CAN (2.0A/B) port -1x Ethernet port
QM3G-70FH	12/12	MR					
QM3G-70FH	24/20	MT					
QM3G-70FH	24/16	MR					
QM3G-70KFH	20/18	MT	2/1 or 4/2 or 6/4 or 8/4 or 12/8 or 16/8				
QM3G-70KFH	20/18	MR					
QM3G-70KFH	30/30	MT	2/1 or 4/2 or 5/2				
QM3G-70KFH	30/26	MR					
QM3G-100FH	30/30	MT					
QM3G-100FH	30/26	MR					
QM3G-100FH	12/12	MR	2/1 or 4/2 or 6/4 or 8/4 or 12/8 or 16/8				
QM3G-100FH	20/18	MT					
QM3G-100FH	20/18	MR					
QM3G-100FH	24/20	MT					
QM3G-100FH	24/20	MR					

MX3G HMI/PLC all-in-one

Image

MX3G-43C



MX3G-70C



MX3G-50C



Product specifications

Model	MX3G-43C-22M	MX3G-70C-48M	MX3G-50C-32M
Dimension	134*102*34mm	210*146*36mm	151*96*36mm
Cutout size	120*94mm	192*138mm	143*86mm
Power Consumption	4-6W	6-7W	5-7W
HMI			
Display	60K colors resistive touch screen, supports portrait display		
Type	4.3" TFT	7.0" TFT	5.0" TFT
Display size	97*56mm	154*87mm	108*65mm
Resolution(pixels)	480*272	800*480	800*480
RAM	64MB		
ROM	NOR Flash 8MB	NOR Flash 16MB	
CPU	32bit CPU 408MHz		
COM ports	Type-C HMI download port (can download PLC program through the USB penetrating function), RS232 port		
Software	TPWorks HMI programming software		
PLC			
I/O	Max 12DI/10DO	Max 24DI/24DO	16DI/16DO
I/O level	--Fixed MT outputs: Y0, Y1 at 43C and Y0-Y13 at 70C, DC24V active NPN outputs -Input: Passive NPN, public terminal isolated -Transistor output: Low level NPN, COM connect to negative Relay output: Normally open dry contact		Fixed MT: Low level NPN, COM negative; Input: passive NPN, common isolated
DO type and load	-Transistor MT/Hybrid Output MRT -The first two Y0-Y1 circuits are fixed to MT, with an output load of 0.1A/point; -MT: 0.5A/point, 0.8A/4 point COM; MR: 2A/point, 4A/4 point COM.	-Transistor MT/Hybrid Output MRT -The first 12 Y0-Y13 circuits are fixed to MT, with an output load of 0.1A/point; -MT: 0.5A/point, 0.8A/4 point COM, 1.6A/8 point COM; MR: 2A/point, 4A/4 point COM, 5A/8 point COM.	Transistor MT output, load 0.2A/point
High-speed counting	Conventional 2-channel single-phase 60KHz+4-channel 10KHz or 1-channel AB (Z) phase 30KHz+1-channel AB (Z) phase 5KHz		
High-speed pulse	MT outputs conventional 4 channels, with Y0-Y1 at 100KHz and Y2-Y3 at 10KHz; The total transmission of high-speed counting and high-speed pulses cannot exceed 300KHz	Conventional 4 channels, Y0-Y1 is 100KHz, Y2-Y3 is 50KHz; The total transmission of high-speed counting and high-speed pulses cannot exceed 300KHz	The conventional 4-way Y0-Y1 is 100KHz, and Y2-Y3 is 10KHz;
Analog	Input	2 voltage channels 0-10V+2 current channels 0-20mA+1 NTC10K	
	Output	1 channel voltage 0-10V+1 channel current 0-20mA output	2 channels of current 0-20mA output
	AI/AO	5AD/2DA	
COM port	Equipped with two PLC programming ports (1 TYPE-C, faster download speed; 1 RS232 programming port), 1 RS485		
Software	Compatible with PLC programming software GX Developer8.86Q and GX Works2		

Detailed info. refer to: "Coolmay MX3G-C Series All-in-One Programming Manual" "MX3G-C Series All-in-One User Manual" "Coolmay TP Series Touch Screen User Manual"

EX3G-80 series

Image



Product specifications

Model	EX3G-8043H	EX3G-8050H	EX3G-8070H/HD	EX3G-8100H
Dimension	134*102*34mm	151*96*36mm	200*146*36mm	275*194*35.6mm
Cutout size	120*94mm	143*86mm	192*138mm	262*180mm
Power Consumption	4-6W	5-7W	6-7W	6-8W
HMI				
Features	16.77 million true color resistive touch screen; all sizes can be displayed vertically			
Display type	4.3"TFT	5"TFT	7.0"TFT	10.1"TFT
Display size	97*56mm	108*65mm	154*87mm	222*125mm
Resolution (pixels)	480*272	800*480	800*480/1024*600	1024*600
RAM	128MB		128MB/256MB	256MB
ROM	NAND Flash 128MB		NAND Flash 128MB/256MB	NAND Flash 256MB
CPU	Dual core 1GHZ			
Operation system	Based on Linux system			
COM Port	USB	Type-C (HMI download port); 1 USB 2.0 port		Type-B; 1个USB 2.0 port
	Other	Comes with 1 RS232		Comes with 1 RS232 or optional 1 RS485
	Ethernet	/	Optional 1 network port (cannot coexist with PLC network port)	
programming software	Coolmay Vcool			
PLC				
I/O	Max 12DI/12DO		Max 24DI/20DO (16MR, Y20-Y23 are fixed as MT)	Max 30DI/30DO(26MR, Y20-Y23 are fixed as MT)
I/O level	Input: Passive NPN, common terminal isolated; Output MT: low level NPN, COM connected to negative; Output MR: Normally open dry contact;			
DO type and load	Relay MR/MOS tube MOS tube: 2A/point, 4A/4-point COM, 5A/12-point COM; MR: 2A/point, 5A/12 points COM.		Relay MR/Transistor MT (Y0-Y3 are MOS tubes)/Mixed output MRT MOS tube: 2A/point, 4A/4 points COM; MT: 0.5A/point, 0.8A/4 points COM, 1.6A/8 points COM; MR: 2A/point, 4A/4 points COM, 5A/8 points COM, 5A/12 o'clock COM.	
High-speed counting	Conventional 6 channels single phase 60KHz or 2 channels AB (Z) phase 30KHz + 1 channel AB phase 5KHz			
High-speed pulse output	Conventional 8 channels: Y0-Y3 is 100KHz, Y4-Y7 is 10KHz; high-speed counting + high-speed pulse total transmission cannot exceed 480KHz			
Analog	Input type	E K S T J type negative temperature thermocouple/PT100/PT1000/NTC10K /NTC50K/NTC100K/0-10V/0-5V/0-20mA/4-20mA or mixed type, etc.		EKSTJ type thermocouple (can support negative temperature E K S T J)/PT100/PT1000/ NTC10K/NTC50K/NTC100K/0-10V/0-5V/-5V~-5V/-10V~-10V/0-20mA/4-20mA or mixed type and other special specifications
	Output type	0-10V/0-5V/0-20mA/4-20mA or mixed type optional		0-10V/ 0-5V/0-20mA/4-20mA/-5-5V/-10-10V (1 negative voltage accounts for 2 DA)
	Points	Max 4AI/2AO		Max 12AI/8AO
Communication Interface	Default	Comes with 1 TYPE-C programming port; default 1 RS232+1 RS485		Comes with 1 Mini USB programming port; Default: 1 RS232+1 RS485
	Optional	Optional 1 RS485(Specially changed from the default RS232)		Optional 1 RS485 (cannot coexist with screen optional RS485 and PLC default RS232)
	Other			Optional CAN port (2.0A/B) and network port (cannot coexist with the touch screen network port); Optional WIFI (will occupy the default RS232 port)
Programming software	Compatible with PLC programming software GX Developer8.86Q and GX Works2			

Detailed info. refer to: "Coolmay QM3G-FH All-in-One User Manual", "Coolmay CX3G/FX3GC PLC Programming Manual", "Coolmay TK HMI User Manual"



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Servo system

Servo driver C600S | Servo PLC All-in-one

Servo driver C600S

Image

C600S-40



C600S-75



Product specifications

Model	C600S-40	C600S-75
Dimension	160*135*42	
Installation dimension	150*27	
output power	0.05KW~0.4KW	0.75KW~1KW
Adaptive motor	CN7J-060430A3KUAA or CN7J-060430A3KVBA (with brake)	CN7J-080830A3KUAA or CN7J-080830A3KVBA (with brake)
Main circuit input power supply	Single-phase AC220V-15%~+10% 50/60Hz	
Communication mode	Comes with 1 RS485, supports standard modbus RTU protocol	
Digital quantity	Comes with 4DI/4DO, user-defined, supports NPN or PNP connection	
Control mode	0: Position control mode; 1: Speed control mode; 2: Torque control mode; 3: Position-speed hybrid control mode; 4: Position-torque hybrid control mode; 5: Speed-torque hybrid control mode	
Protection function	Overspeed/main power overvoltage and undervoltage/overcurrent/overload/encoder abnormality/control power abnormality/position out of tolerance	
Protection function	Speed/current position/command pulse accumulation/position deviation/motor torque/motor current/running status, etc.	
Control input	1: Servo enable 2: Alarm clear 3: CCW drive prohibition 4: CW drive prohibition 5: Deviation counter is cleared 6: Command pulse prohibited 7: CCW torque limit 8: CW torque limit	
Control output	Servo ready/servo alarm/positioning complete/mechanical brake	
Energy consumption braking	Support built-in and external	
Applicable load	Less than 3 times of motor inertia	
Display operationr C	5-digit LED digital tube display, 4 operation keys	
Position control	Input mode	0: Pulse + direction
		1: CCW/CWpulse
		2: A/BTwo phase quadrature pulse
		3: Internal position control
	Input electronic gear ratio	Gear ratio molecule: 1-32767 Denominator of gear ratio: 1-32767

Detailed info. refer to: Coolmay C600S AC Servo Manual Coolmay C600S Servo Drive User Manual

Servo PLC All-in-one

Image

MX3G-C40-32MT



MX3G-C75-32MT



Product specifications

Model	MX3G-C40-32MT	MX3G-C75-32MT
Dimension	160*135*42	
Installation dimension	150*27	
Servo		
output power	0.05KW~0.4KW	0.75KW~1KW
Adaptive motor	CN7J-060430A3KUAA or CN7J-060430A3KVBA (with brake)	CN7J-080830A3KUAA or CN7J-080830A3KVBA (with brake)
Main circuit input power supply	Single-phase AC220V-15%~+10% 50/60Hz	
Input power	Main circuit power supply: single-phase AC220V, voltage range 200V~240V, 50/60Hz Control loop power supply: provided by internal conversion, no external power supply required	
Communication method	Comes with 1 RS485 (terminal A B), supports standard modbus RTU protocol (connected with internal PLC)	
Control mode	0: Position control mode; 1: Speed control mode; 2: Torque control mode; 3: Position-speed hybrid control mode; 4: Position-torque hybrid control mode; 5: Speed-torque hybrid control mode	
Protection function	Overspeed/main power overvoltage and undervoltage/overcurrent/overload/encoder abnormality/control power abnormality/position out of tolerance	
Protection function	Speed/current position/command pulse accumulation/position deviation/motor torque/motor current/running status, etc.	
Control input	1: Servo enable 2: Alarm clear 3: CCW drive prohibition 4: CW drive prohibition 5: Deviation counter is cleared 6: Command pulse prohibited 7: CCW torque limit 8: CW torque limit	
Control output	Servo ready/servo alarm/positioning complete/mechanical brake	
Energy consumption braking	Support built-in and external	
Applicable load	Less than 3 times of motor inertia	
Display operation	5-digit LED digital tube display, 4 operation keys	
Encoder feedback	17-bit single-turn absolute encoder	
PLC		
PLC logic supply voltage	DC24V	
I/O	Fixed 16DI/16DO, all programmable and universal	
I/O level	Input: passive NPN, common terminal connected to 24V+; output MT: low level NPN, COM connected to negative	
DO type and load	MOS tube: 2A/point, 4A/4 points COM, 5A/12 points COM;	
High-speed counting	Conventional 2 channel single-phase 60KHz + 4 channel 10KHz or 1-way AB(Z) phase 30KHz + 1 channel AB(Z) phase 5KHz	
High-speed pulse	Conventional 4 channel Y0-Y1 is 100KHz, Y2-Y3 is 50KHz; (wherein, the internal servo of Y0 is occupied) High-speed counting + high-speed pulse total can not exceed 300KHz	
Communication port	Comes with 1 RS485 (terminal A1 B1) (support modbus protocol, RS protocol, etc.)	
Software	Compatible with GX Works2/GX Developer8.86Q	



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PLC

L02 PLC Host | CX3G PLC | M3S PLC

L02 PLC Host

Image

L02M32T



L02M32R



L02M24T



L02M24R



Product specifications

Model	L02M32T	L02M32R	L02M24T	L02M24R
Programming language	Ladder diagram (LD) / instruction list / Sequential function chart (SFC)			
Program capacity	32k steps			
Storage capacity	Date (D)	[D0~D127] 128points General / [D128~D7999] 7872points Retentive / [D8000~D8511]512points Special		
	Expansion(R)	[R0~R22999] 23000points. Support power-down retention / [R23000~R23999].1000points Internal use		
Expansion model	Max limit of 31 units: max 12 analog input/output respectively			
Max I/O	FX3U mode: 512 points; FX3G mode: 256 points (the sum of input and output points)			
CPU Digital I/O	16DI / 16DO		12DI/ 12DO	
CPU analog I/O	/		4AI/4AO	
AI Type	/		2*0-10V, 2*0-20mA(4-20mA)	
AO Type	/		2*0-10V, 2*0-20mA(4-20mA)	
Timer T	[TO~T199] 200points 100ms General / [[T250~T255] 6points 100ms Retentive [T246~T249] 4points 1ms cumulative Retentive / [T256~T319] 64points 1ms General [T200~T245] 46points 10ms General			
	※The 10ms timer is affected by the scan period. If the scan period is 12ms,the timer becomes 12ms and executes once.			
16-bit counter C	[CO~C15] 16points General			
32-bit counter C	[C200~C219] 20points General		[C220~C234] 15points Retentive	
	[C235~C245 Single phase single counting][C246~C250 single phase double counting] [C251~C255 Two-phase double counting]			
High-speed pulse	4-channels 150KHz+4-channels 50KHz			
High-speed counter	Single phase 6 channels 60KHz, or AB(Z) phase 2 channels 60KHz+AB phase 1 channel 10KHz			
Do type	L02M32T/L02M24T: Transistor output, load maximum 500mA, low level NPN, COM connected to negative			
	L02M32R/L02M24R: Relay output, load maximum 2A, dry contact, COM can be connected to positive or negative			
Default COM	Type-C, RS-232, RS-485*2, Ethernet, CAN			
Protocol	Programming port Modbus RTU, Modbus TCP, Modbus UDP, freeport protocol, CAN, Ethernet/IP, BD board			
Data backup function No battery storage	Program	Flash ROM		
	Retentive area	MRAM has no write limit		
Calendar(RTC)	Commercially available batteries CR1620(optional)			
Self-diagnosis	CPU abnormalities, internal memory problems, etc			
Rated input voltage	24VDC(±10%)			
Software	Compatible with GX WORKS 2			

Detailed info. refer to [Coolmay L02 Series PLC Programming Manual](#) [L02 Series PLC Controller User Manual](#)

L02 PLC modules

Image

L02-60P



L02-8EX



L02-16EX



L02-32EX



L02-8EYT, L02-8EYR



L02-16EYT
L02-16EYR
L02-16EYP



L02-32EYT



L02-16ET
L02-16ER



L02-32ET



Product specifications

Sort	Model	Description
Power supply Module	L02-60P	Input: 100-240VAC, 50/60Hz AC power input. Output (for L02 series products): 24VDC/1.5A, 36W Output (for other products): 24VDC/0.5A, 12W
Digital input Module	L02-8EX	DC24V, 6mA, 8 points input, push-type terminal
	L02-16EX	DC24V, 6mA, 16 points input, push-type terminal
	L02-32EX	DC24V, 6mA, 32 points input, horn block terminal
Digital output Module	L02-8EYT	30VDC, 2A/point; 2A/4point COM, 8 points transistor output, push-type terminal
	L02-8EYR	Below AC220V / Below DC30V, 2A/point, 4A/4point COM, 8 points relay output, push-type terminal
	L02-16EYT	30VDC, 2A/point; 2A/4point COM, 16 points transistor output, push-type terminal
	L02-16EYR	Below AC220V / Below DC30V, 2A/point, 4A/4point COM, 16 points relay output, push-type terminal
	L02-16EYP	220VAC/30VDC, 0.5A/point, 16DO, transistor and PNP outputs, push-type terminals
	L02-32EYT	30VDC, 2A/point; 2A/4point COM, 32 points transistor output, horn block terminal
Digital input output mixed Module	L02-16ET	DC24V, 6mA, 8 points input; 30VDC, 2A/point; 2A/4point COM, 8 points transistor output, push-type terminal
	L02-16ER	DC24V, 6mA, 8 points input; Below AC220V / Below DC30V, 2A/point, 4A/4point COM, 8 points relay output, push-type terminal
	L02-32ET	DC24V, 6mA, 16 points input; 30VDC, 2A/point; 2A/4point COM, 16 points transistor output, horn block terminal

L02 PLC modules

Image

L02-16ET
L02-16ER



L02-32ET



L02-4DA



L02-4AD, L02-4AD2DA,
L02-4RTD, L02-4TC, L02-4NTC



L02-2LC
L02-16EYR



L02-EIP



Product specifications

Sort	Model	Description
Digital input output mixed Module	L02-16ET	DC24V, 6mA, 8 points input; 30VDC, 2A/point; 2A/4point COM, 8 points transistor output, push-type terminal
	L02-16ER	DC24V, 6mA, 8 points input; Below AC220V / Below DC30V, 2A/point, 4A/4point COM, 8 points relay output, push-type terminal
	L02-32ET	DC24V, 6mA, 16 points input; 30VDC, 2A/point; 2A/4point COM, 16 points transistor output, horn block terminal
Analog output Module	L02-4DA	4-channel analog signal output 16-bit resolution 0~5V, 0~10V, 4~20mA
Analog input Module	L02-4AD	channel analog signal input 16-bit resolution 0~10V, 0~5V, 0~20mA, -20~20mA
Analog input output mixed Module	L02-4AD2DA	4-channel analog signal input; 16-bit resolution 0~10V, 0~5V, 4~20mA, 0~20mA 2-channel analog signal output; 16-bit resolution 0~5V, 0~10V, 0~20mA
Temperature Module	L02-4RTD	4-channel 2-wire or 3-wire RTD temperature sensing Sensor type: Pt100; Resolution: 0.1°C/0.1°F (16 bit converter)
	L02-4TC	4-channel thermocouple temperature sensing Sensor type: J, K, S, T, E; Resolution: 0.1°C/0.1°F (16 bit converter)
	L02-4NTC	4-channel thermistor temperature sensing Sensor type: NTC10K (Default B value 3435); Resolution: 0.1°C/0.1°F (16 bit converter)
Weighing/Load cell Module	L02-2LC	2-channel 4-wire load cell Characteristic values: 1, 2, 4, 6, 20, 40, 80 mV/V Accuracy error value: one ten thousandth (1/10000) ADC resolution: 23 bits
Ethernet/IP Module	L02-EIP	Built-in two Ethernet interfaces, support switch function Support Ethernet/IP protocol, remotely expand I/O available.

CX3G PLC

Image

CX3G-16M



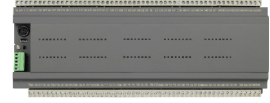
CX3G-24M



CX3G-48M



CX3G-64M、CX3G-80M



Product specifications

Model	CX3G-16M	CX3G-24M	CX3G-48M	CX3G-64M	CX3G-80M
Dimension	65*90*36mm	130*90*36mm	200*90*36mm	290*90*36mm	
Cutout size	77*99mm	122*99mm	192*99mm	282*99mm	
Weight(kg)	0.15	0.25	0.4	0.55	
Installation	Fixed hole installation and DIN-Rail (35mm)				
Features	Support interrupt, linear arc interpolation, PID auto-tuning. 32K program capacity, 32K retentive register				
No-load power consumption	0.72W	1.2W			
Full load power consumption	MT/1.2W MR/1.44W	MT/2.4W MR/2.88W	MT/3.1W MR/3.84W	MT/3.8W MR/4.8W	MT/4.8W MR/6.3W
High speed counting	Single phase 6 channel 60KHz, or 2 AB 60KHz + 1 AB 10KHz, or 2 ABZ 60KHz + 1 AB phase 10 KHz				
High speed pulse (only for MT models)	8 channels 10KHz	8 channels, Y0-Y3 is 100KHz, Y4-Y7 is 10KHz			
	High-speed counting + high-speed pulse < 480KHz				
COM port	1x Mini type B USB programming port, 1x RS232 programming port (Interface terminal is mouse female port with 8 holes), 2x RS485 COM ports				
Software	Compatible with GX WORKS 2				

Detailed info. refer to COOLMAY CX3G PLC Programming Manual CX3G PLC user manual
Support interruption, linear arc interpolation, and PID self-tuning; 32K step program capacity, 32K power down hold registers.
*If the analog input of the CX3G-24M reaches 8 inputs, the maximum switch input can only be 10 inputs;

Optional functions

Product specifications

Model	I/O	Output	AI/AO	AI type	AO type	PLC COM port
CX3G-16M	8/8	MT	/	/	/	
CX3G-16M	8/6	MR	/			2x default RS485 ports can be changed into -1x RS485 + 1x RS232 Or -1x RS485 + 1x CAN (2.0A/B) port Or -1x RS232 + 1x CAN (2.0A/B) port
CX3G-24M	12/12	MT	2/1 or 4/2 or 6/4	-Thermocouple E/E_/K/K_/S/S_/T/T_/J/J_/PT100/ PT1000/ NTC10K/ NTC50K/ NTC100K/ -0~10V/ 0~5V/ -5V~5V/ -10V~10V -0~20mA/ 4~20mA -Mixed	-0~10V / 0~5V/ -5~5V/ -10~10V (2AO for 1 minus voltage) -0~20mA/ 4~20mA -Mixed/	
CX3G-24M	12/12	MR				
CX3G-48M	24/24	MT	2/1 or 4/2 or 6/4 or 8/4			-2x default RS485 ports can be changed into a)1x RS485 + 1x RS232 Or b)1x RS485 + 1x CAN (2.0A/B) port Or c)1x RS232 + 1x CAN (2.0A/B) port -1x Ethernet port
CX3G-48M	24/24	MR				
CX3G-64M	32/32	MT	2/1 or 4/2 or 6/4 or 8/4 or 12/8 or 16/8			--1x RS232 COM port (changed from one default RS485 port) -1x CAN (2.0A/B) port -Ethernet port
CX3G-64M	32/32	MR				
CX3G-80M	40/40	MT	2/1 or 4/2 or 4/4			
CX3G-80M	40/40	MR				

M3S PLC

Image

M3S-24M



M3S-40M



Product specifications

Model	M3S-24M	M3S-40M
Dimension	93*88*75mm	143*88*75mm
Cutout size	74*80mm	124*80mm
Installation	Fixed hole installation and 35MM standard rail installation	
I/O	14 DI 10 DO (MR up to 8, Y0/Y1 fixed MT)	24DI 16DO
I/O level	Output MT: low level NPN, COM connected to negative; Output MR: normally open dry contact; Input: Passive NPN, common isolated	
DO type and load	Relay MR/Transistor MT/Mixed output MRT The first 2 channels of Y0/Y1 of 24M are fixed as MT, and the output load is 0.1A/point; Other transistors MT output load 0.5A/point, 0.8A/4 points COM; Relay output load 2A/point, 4A/4 points COM. RTU protocol	
High speed counting	Conventional 2-channels single-phase 60KHz+4-way 10KHz or 1 channel AB(Z) phase 30KHz +1 channel AB(Z) phase 5KHz	
High speed pulse	Conventional 2-channels Y0-Y1 is 100KHz, Y2-Y3 is 10KHz; High-speed counting + high-speed pulse total can not exceed 300KHz	
Communication port	Comes with two PLC programming ports (1 type-C port, faster download speed; 1 RS232 programming port, the interface terminal is an 8-hole mouse head female socket) The default is 2 RS485; or 1 RS232 and 1 RS485 can be customized in batches	
Software	Compatible with GX Works2/GX Developer8.86Q	

Common Model Specifications: M3S-24MT/MRT-485/485
M3S-40MT/MRT-485/485

Detailed info. refer to COOLMAY M3S Series PLC Programming Manual COOLMAY M3S Series PLC User Manual



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HMI

TK HMI | MT-i HMI

TK60 series HMI

Image

TK6037FH



TK6043FH



TK6050FH



TK6070FH



TK6100FH



TK6150FH



Product specifications

Model	TK6037FH	TK6043FH	TK6050FH	TK6070FH	TK6100FH	TK6150FH	
Specs	Dimension	88*88*25mm	134*102*34mm	151*96*36mm	200*146*36mm	275*194*36mm	386*300*40mm
	Cutout size	72*72mm	120*94mm	143*86mm	192*138mm	262*180mm	366*280mm
	Display size	73*56mm	97*56mm	108*65mm	154*87mm	222*125mm	305*229mm
	Weight(kg)	0.3 kg	0.33 kg	0.33 kg	0.54 kg	0.7 kg	3.3 kg
Display	Display	3.5" TFT	4.3" TFT	5" TFT	7.0" TFT	10.1" TFT	15" TFT
	Resolution (pixels)	320*240	480*272	800*480	800*480	1024*600	1024*768
	Brightness	300cd/m ²	400cd/m ²	300cd/m ²			450cd/m ²
	Contrast ratio	400:1					
	Backlight	LED					
	Backlight time	60,000 hours					
	Display color	65536 colors					
	Touch type	4-wire resistive panel					
Storage	ROM	NOR Flash 8MB		NOR Flash 16MB			
	RAM	64MB (HMI when stores historical data, optional ferroelectric is required)					
	CPU	32bit CPU 408MHz					
Interface	Interface	-Download port: Type-C, RS232, RS485 COM port: RS232, RS485			-Download port: Type-B, RS232, RS485 -COM ports: RS232, RS485	-Download port: Type-C, RS232,RS485 -COM ports:RS232, RS485	
	Protocol	RS232/RS485 supports MODBUS, free port and common PLC communication protocol					
Calendar	Yes						
Input Voltage	12-24VDC±10%<150mA @ 24VDC						
Consumption	42mA/24V	72mA/24V	85mA/24V	107mA/24V	145mA/24V	400mA/24V	
Protection Class	IP65 (front panel)						
Temperature	Ambient environment: 0 ~ 50°C Storage environment: -20 ~ 70°C						
Humidity	20% ~ 90% RH						
Certification	CE					/	
Software	CoolMay mView HMI programming software Detailed info. refer to Coolmay TK Series HMI Programming Manual CoolMay TK HMI User Manual						

Optional functions

Product specifications

Model	WiFi (occupy default RS485 port)	Ferroelectric (store data)
TK6037FH	/	Yes
TK6043FH	Yes	Yes
TK6050FH	Yes	Yes
TK6070FH	Yes	Yes
TK6100FH	Yes	Yes
TK6150FH	Yes	Yes

TK80 series HMI

Image

TK8037H



TK8043H



TK8050H



TK8070H/HD



TK8100H



TK8150H



Product specifications

Model	TK8037H	TK8043H	TK8050H	TK8070H/HD	TK8100H	TK8150H	
Specs	Dimension	88*88*25mm	134*102*32mm	151*96*36mm	200*146*36mm	275*194*36mm	386*300*40mm
	Cutout size	72*72mm	120*94mm	143*86mm	192*138mm	262*180mm	352*279mm
	Display size	73*56mm	97*56mm	108*65mm	154*87mm	222*125mm	305*228mm
	Weight(kg)	Approx. 0.3 kg	Approx. 0.33 kg	Approx. 0.33 kg	Approx. 0.54 kg	Approx. 0.7 kg	Approx. 3.414 kg
Display	Display	3.5" TFT	4.3" TFT	5" TFT	7.0" TFT	10.1" TFT	15" TFT
	Resolution (pixels)	320*240	480*272	800*480	8800*480/1024*600	1024*600	1024*768
	Brightness	300cd/m ²	400cd/m ²	300cd/m ²			450cd/m ²
	Contrast ratio	400:1					
	Backlight	LED(brightness 0-100 adjustable)					
	Backlight time	60,000 hours					
	Display color	1677W true color					
Touch type	4-wire resistive panel						
Memory	ROM	NAND Flash 128MB		NAND Flash 128MB/256MB		NAND Flash 256MB	NAND Flash 128MB
	RAM	128MB		128MB/256MB		256MB	128MB
	CPU	Dual core 1GHZ					
Operating system	Based on Linux system						
USB port	USB 2.0×1 (usb interface, external U disk can be used to update programs and upload and download historical data)						
Communication interface	Download port	Type-C, RS232, RS485, Network port			Type-C, RS232, RS485*2, Network port	Type-B, RS232, RS485, Network port	Type-C, RS232, RS485*2, Network port
	EtherNet	Support MODBUS, free port and common PLC communication Protocol					
	Serial port support protocol	Comes with 1 RS232 and 1 RS485 (Supports MODBUS protocol, free port and conventional PLC communication protocol)			Comes with 1 RS232 and 2 RS485 (Supports MODBUS protocol, free port and conventional PLC communication protocol)		Comes with 1 RS232 and 1 RS485 (Supports MODBUS protocol, free port and conventional PLC communication protocol)
SD card	SD card can be optionally installed except for TK8037H						
Calendar	Yes						
Input Voltage	12-24VDC±10%<150mA @ 24VDC						12-24VDC±10%<500mA @ 24VDC
Consumption	42mA/24V	72mA/24V	85mA/24V	107mA/24V	145mA/24V	400mA/24V	
Protection Class	IP65 (front panel)						
Temperature	Working environment -20~60 °C; Storage environment -20~70 °C						
Humidity	20% ~ 90%RH						
Software	Vcool 1.0.8						
Reference	"CoolMay TK80 Series (Vcool) User Manual", "CoolMay TK80 Series User Manual"						



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Variable Frequency Drive

CM540 | CM300 | CM500

Variable Frequency Drive

Image

CM540-0.75/1.5/4.0KW



CM540-5.5/7.5/11KW



Model	CM540-0.75/1.5/4.0KW	CM540-5.5/7.5/11KW
Dimension L*W*Hmm	118*156*185	247*160*176
Weight	2.0kg	3.7kg
Basic Function		
Maximum frequency	Vector control: 0 ~ 600Hz V/F control: 0 ~ 3200Hz	
Carrier frequency	0.8kHz ~ 12kHz. The carrier frequency automatically adjusted based on the load features.	
Input frequency resolution	Digital setting: 0.01Hz Analog setting: Maximum frequency × 0.025%	
Control mode	Open-loop vector control (SVC), Closed-loop vector control (FVC), VF control.	
Startup torque	G type: 0.25Hz/150% (SVC), 0Hz/180%(FVC), P type: 0.5Hz/100%	
Speed range	1:200(SVC), 1:1000(FVC)	
Speed stability accuracy	±0.5%(SVC), ±0.02%(FVC)	
Torque control precision	±5% (SVC) (above 10Hz), ±3%(FVC)	
Overload capacity	G type: 150% rated current 60s. 180% rated current 3s. P type: 120% rated current 60s. 150% rated current 3s.	
Torque boost	Automatic torque boost. Manual torque boost 0.1% ~ 30.0%	
V/F curve	Five modes: Straight-line, Multi-points, Square V/F, V/F separation, V/F Semi-separation	
V/F Separation	Two modes: complete separation, semi-separation	
Ramp mode	Straight-line ramp and S-curve ramp. Four kinds of acceleration/deceleration time with the range of 0.0~6500.0s	
DC injection braking	DC braking frequency: 0.00Hz ~ maximum, braking time: 0.0s ~ 36.0s. Braking action current value: 0.0% ~ 100.0%	
Jog control	Jog frequency: 0.00Hz ~ 50.00Hz Jog acceleration and deceleration time: 0.0s ~ 6500.0s	
Simple PLC, multistage speed operation	It implements up to 16 speeds via the simple PLC function or combination of DI terminal states.	
Built-in PID	It can keep constant output voltage automatically when the mains voltage changes.	
Over voltage/Over current loss of speed control	Automatic limit of the current and voltage during the operation, prevent frequent over current and over voltage	
Rapid current limit	Minimizing over-current fault and protect the normal operation of converter.	
Torque limit and control	"Excavator" characteristics, automatic limit of the torque during the operation, to prevent frequent over-current trip. Closed-loop vector mode torque control can be achieved.	

Other models: CM540-15/ 18.5/ 22KW, CM540-30/ 37KW, CM540-45/ 55/ 75KW, CM540-90/ 110KW, CM540-132/ 160/ 185KW, CM540-200/ 220/ 250/ 280KW, CM540-315/ 350KW.

The above models are all iron shells. For detailed dimensions, please contact us
Detail info refer to: Coolmay CM540-Inverter user manual

Variable Frequency Drive

Image



Product specifications

Model	CM300	CM500
Maximum frequency	Vector control: 0 ~ 300Hz V/F control: 0 ~ 500Hz (general purpose); 0 ~ 3200Hz (high frequency)	
Carrier frequency	0.5kHz ~ 16kHz The carrier frequency can be automatically adjusted according to the load characteristics.	
Input frequency resolution	Digital setting: 0.01Hz Analog setting: highest frequency●0.025%	
control method	Open loop vector control (SVC) Closed loop vector control (FVC) V/F control	
Startup torque	0.5Hz/150% (SVC); 0Hz/180% (FVC)	
Speed range	1:100 (SVC) 1:1000 (FVC)	
Speed stability accuracy	±0.5% (SVC) ±0.02% (FVC)	
Torque control accuracy	±5% (FVC)	
Overload capacity	G type machine: 150% rated current 60s; 180% rated current 3s.	
Torque boost	P type machine: 120% rated current 60s; 150% rated current 3s.	
V/F curve	Automatic torque boost; manual torque boost 0.1% ~ 30.0%	
V/F separation	Three methods: linear type; multi-point type; N-th power V/F curve	
Acceleration and deceleration curve	Linear or S-curve acceleration and deceleration mode. Four kinds of acceleration and deceleration time 0.0 ~ 6500.0s	
Jog control	Braking current value: 0.0% ~ 100.0%	
Simple PLC, multistage speed operation	Jog frequency range: 0.00Hz ~ 50.00Hz. Jog acceleration/deceleration time is 0.0s ~ 6500.0s.	
Built-in PID	Through the built-in simple PLC or control terminal to achieve up to 16-speed operation	
Automatic voltage adjustment (AVR)	It is convenient to realize the process control closed-loop control system	
Over voltage and over current stall speed control	When the grid voltage changes, it can automatically keep the output voltage constant	
Rapid current limit	Minimize over-current faults to protect the normal operation of the inverter	
Torque limit and control	The "shovel" feature automatically limits the torque during operation to prevent frequent over-current trips; closed-loop vector mode can realize torque control	

Other models: CM300-0R4GS2, CM300-R75GS2, CM300-R75GT4, CM500-R75GT4, CM500-3R7G/5R5PT4, CM500-R75GT2, etc.

For detailed dimensions and models, please contact us

Detail info refer to: Coolmay CM500-Inverter user manual

Power supply

Image

CM6024



Product specifications

Model	CM6024
Installation	Standard guide rail installation and can be installed on NS35/7.5 or NS35 guide slot
Dimension	90*60*32mm
Connection mode	5P-7.62 barrier terminal
Input voltage	88 ~ 264VAC or 125~373VDC
Input frequency	47 ~ 63HZ
Output voltage	DC24V
Output current	2.5A
Impulse current	30A/ 230VAC
Output accuracy	±1%
Output efficiency	86%
No-load consumption	< 0.5W
Defensive function	Short circuit/ over voltage/ overload protection
Manuals	Coolmay power supply user manual

Gateway Module

Image



Product specifications

Model	BG200
Dimension	106mm * 97mm * 23mm(not including antenna and mounts)
Rated power	< 5W
Rated voltage	DC9-38V working voltage
Maximum power consumption	12W
Working temperature	-10~60°C
Ambient humidity	10~90%RH (no condensation)
Networking method	① 4GSIM Telecom/Unicom/Mobile ② Ethernet ③ Wi-Fi
CPU	580MHz MIPS
RAM	16MB Flash + 128MB DDR2
VPN	Support
Ethernet	1*WAN, 2*LAN
Serial por	RS232 / RS485

Protocols supported by BG200

ce Protocols	Interfa	Support or not	485 232	RJ45
Siemens SMART200		yes		√
Mitsubishi FX1/2/3 series		yes	√	
Mitsubishi Q/5U		yes		√
Coolmay series PLC		yes	√	√
MODBUS RTU protocol		yes	√	
MODBUS TCP protocol		yes		√

Cable

Image

Type C Cable



232 programming cable



USB-232 serial port cable



Mini type B usb programming cable



HMI programming cable for 7/10 inch HMI



CX2N PLC download cable



SC-11



Customization

Customization

- MOQ 200pcs
- OEM
- ODM

