



Zileo

Standard modules 10-12 I/O and 20 I/O:

- Programming by PC, pocket PC or on front face
- Programming language: LADDER
- Programming Software: Window based Zileosoft

Modules without display:

- Functions identical to the standard modules
- Competitive cost : average selling price - 20 to - 30 % compared to the standard
- Confidentiality of the applications

Advantages of Zileo Logic:

- Easy to use (do not need special sales force)
- Dedicated to simple machines, simple control of small machines
- Automated systems of building and industry
- Offline simulation facility is provided in Zileosoft

Applications:

- Industry : Pumping system, irrigation, car wash, disposal, automatic distributors, etc.
- Building : Door controls and automatic barriers, lighting, windows, indicators, rolling shutters, escalators, etc.



Twido

Twido Compact:

- 3 models in 10,16 and 24 I/O, 100...240 V AC power supply
- Removable : screw terminals, the model 24 I/O accepts 4 extension modules

Twido Modular:

- 3 models in 20 and 40 I/O, 24 V DC power supply
- Removable HE 10 connectors or screw terminals.
- These models accept 4 to 7 extension modules

Extensions:

- 14 discrete I/O extension modules: removable screw terminal connections, spring terminal or HE 10 connectors
- 4 (12 bit) analog extension modules: removable screw terminal connections

Options:

- Functions of adjustment, of communication (Modbus masters / slaves)
- Programming software : Window based Twidosoft
- Programming Languages : Ladder languages, reversible, Grafset
- Digital display, Memory EEPROM, RTC, additional Communication ports are available

Applications:

- Typical Applications up to 100 I/O
- For simple systems, small, compact and stand alone machines



Modicon Micro

Micro: the PLC for machine builder:

- Application targeted: 30 to 120 I/O (Up to 484 I/O max.)
- Maximum modularity with the minimum dimensions
- For small processes and distributed architectures
- Scan time : less than 0.15 micro sec / instruction
- Programming software : Window based PL7 Micro, PL7 Junior, PL7 Pro
- Programming languages : LD, ST, GFC, IL, DFB
- PID and other mathematical functions available

Compact and integrated dedicated modules:

- Analogue I/O integrated or with half height modules
- Counting modules from 500Hz till 500kHz
- Positioning module SSI absolute encoder input (1MHz)
- TSX DPZ Safety module

Communication capacities:

- Unitelway and Master/slave Modbus /Jbus
- AS-i Master
- Ethernet - TCP/IP modules with web diagnostic or Factory Cast Services



Modicon Premium

Premium Powerful CPUs:

- P57-10 CPUs for machine control
- P57-20/57-30 CPUs for manufacturing processes
- P57-40 CPUs for power-demanding processes
- PCX57 Atrium Slot-CPU's for Industrial PC users
- Programming software : Window based PL7 Pro, Proworks
- Programming languages : LD, ST, GFC, IL, DFB
- PID and other mathematical functions available

Premium King of Architectures:

- Ethernet TCP/IP & Transparent Ready
- Controller of FIP, CANopen & ASI remote I/Os
- I/O concentrator through Telefast2 terminal blocks
- Multi-rack PLC systems

Premium Multi-Purpose PLC:

- Digital & Analog I/O modules
- Servo & Stepper Motion modules
- Counting & Cam modules
- Warm-standby modules
- Communication capabilities : Ethernet TCP/IP, FIP, Modbus +, ASCII, CAN open, Interbus, Profibus DP

Applications:

- Typical applications of 150 I/Os and above
- Medium to highly complex machine, discontinuous process, loop control & infrastructure process



Modicon Momentum

Distribute I/Os Sub-System for PLCs:

- Distribute I/Os nearest the machine
- Save installation and maintenance costs
- Discrete, analog or specialized I/Os, up to 32 channels
- Embedded Power Supply
- Health and status diagnostic on the base, and accessible by software

Open connectivity with our field buses and the main ones in the market:

- Modbus Plus, World Fip
- Interbus, Profibus DP, Device Net, Ethernet TCP/IP

Momentum M1 and M1E processor adapters for distributed intelligence:

- RAM memory up to 512 Kb
- I/O capacity: 2048 to 8192 points
- Up to integral two communication ports
- Communication option adapter for additional port
- LL984 and 5 IEC languages
- Embedded web pages for M1E
- Programming software: Window based Proworks and Concept
- Programming languages: LD, ST, GFC, IL, DFB
- PID and other mathematical functions available



Modicon Quantum

Quantum offers four powerful CPUs that cover a wide range of Process Control and Infrastructure applications:

- 486/586 processors
- Math coprocessor for process algorithms and math calculations
- IEC 1131-3 program memory up to 2,5 MB
- Key switch to locally start, stop, and memory protect the CPU
- Programming software : Window based Proworks and Concept
- Programming languages : LD, ST, GFC, IL, DFB
- PID and other mathematical functions available
- Total scan time : less than 1 msec

Flexible architectures for remote and distributed I/Os usable in three major architectures:

- Handles upto 6000+ I/O
- Remote I/O, to connect Quantum expanded racks (also compatible with old 800, 500, 200 series and SysMax I/Os)
- Distributed I/O over Modbus Plus, for applications that require small drops dist. over many locations

The solution for reliability:

- Hot Standby: redundant processors reduce downtime in critical applications
- Redundant Quantum power supplies
- Dual cabling options for both Remote and Dist. I/Os
- Conformal Coating offer for harsh environments



SPECIFICATIONS :

MODEL	J 7		V 7		
VOLTAGE CLASS		200 V	400 V	200 V	400 V
Max. applicable motor output (KW)	3-phase	0.1 to 3.7 KW	0.37 to 3.7 KW	0.1 to 3.7 KW	0.37 to 7.5 KW
	1-phase	0.1 to 1.5 KW	-	0.1 to 3.7 KW	-
Max. output voltage (V)	3-phase	200 to 230 V* ¹	380 to 460 V* ¹	200 to 230 V* ¹	380 to 460 V* ¹
	1-phase	200 to 240 V* ¹	-	200 to 240 V* ¹	-
Max. output frequency (Hz)	400 Hz (programmable)				
Rated input voltage (V)	3-phase	200 to 230 V	380 to 460 V	200 to 230 V	380 to 460 V
	1-phase	200 to 240 V	-	200 to 240 V	-
Rated input frequency (Hz)	50/60 Hz				
Allowable voltage & frequency fluctuation	+10%, -15%; ±5%				
Control method	Sine wave PWM (V/f control)		Sine wave PWM [V/f, Vector control (selectable)]		
Overload capacity	150% rated output current for one minute				
Working ambient temperature	-10°C to 50°C				
Protections	Motor overload, instantaneous overcurrent, fan overheat, power loss ride through, ground fault, short circuit, input over and under voltage, stall prevention etc.				

MODEL	F 7	G7
VOLTAGE CLASS	400 V	
Max. applicable motor output (KW)	0.4 to 300 KW	0.55 to 300 KW
Max. output voltage (V)	3-phase	380/400/415/440/460/480 V AC* ¹
Max. output frequency (Hz)	300 Hz for CT* ² ; 400 Hz for VT* ³	400 Hz
Rated Input voltage & frequency	3-phase	380/400/415/440/460/480 V AC +10%, -15%; 50/60 Hz, ±5%
Control method	Sine wave PWM [V/f, Open-loop vector, V/f with PG control, Flux vector (Software selectable)]	Sinusoidal PWM with 3-level control (Flux vector control with PG feedback, Open-loop vector control 1 & 2, V/f control, V/f control with PG feedback)
Overload capacity	CT* ² Mode: 150% of Constant Torque Current for 60 sec; VT* ³ Mode: 110% of Variable Torque Current for 60 sec	150% for 60 sec, 180% for 14sec, 200% for 0.5 sec of the inverter rated current
Starting torque	150% at 0.5 Hz (Open-loop vector control), 150% at 0 Hz (Flux vector control)	150% at 0.3 Hz (Open-loop vector control 2), 150% at 0 Hz (Flux vector control with PG feedback)
Accel/Decel time	0.01 to 6000.0 sec (Accel/Decel time setting independently, 4 steps available)	
Braking torque	Approx. 20% (Approx. 125% when using braking resistor)	
Protections	Motor overload, inverter overload, instantaneous overcurrent, power loss ride through, ground fault, fuse protection, fan overheat, open phase, short circuit, input over and under voltage, stall prevention etc.	
Frequency control range	CT* ² Mode: 0.01 to 300 Hz; VT* ³ Mode: 0.01 to 400 Hz	0.01 to 400 Hz
Speed control range	1:100 (Open-loop vector control), 1:1000 (Flux vector control)	1:200 (Open-loop vector control 2), 1:1000 (Flux vector control)
Working ambient temperature	-10°C to +45° C	

*¹ Output voltage proportional to input voltage, *² Constant Torque, *³ Variable Torque

Specifications are subject to change without prior notice.

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