

## 3.1. Special Auxiliary Relays

◎ PLC Operation Status	
M1000	Normally ON contact (a contact)
M1001	Normally OFF contact (b contact)
M1002	ON only for 1 scan after RUN
M1003	OFF only for 1 scan after RUN
M1004	On when error occurs
M1008	Monitor timer flag (ON: PLC WDT time out)
M1009	24VDC down detection
M1010	PLSY Y0 mode selection. ON: output continuously
◎ Clocks	
M1011	10msec clock
M1012	100msec clock
M1013	1sec clock
M1014	1min clock
◎ Flags	
M1019	Cancel X0~X17 input delay
M1020	Zero flag
M1021	Borrow flag
M1022	Carry flag
M1023	PLSY Y1 mode selection. ON: output continuously
M1024	System used
M1025	Invalid communication request
M1028	10ms time base setting flag
M1029	PLSY Y0 Instruction execution completed flag
M1030	PLSY Y1 Instruction execution completed flag
M1070	The Pulse unit switching (ON: 100 $\mu$ s) will be conducted at the PWM command.
M1031	Non-holding memory all clear
M1032	Holding memory all clear
M1033	Memory holding at STOP
M1034	All outputs disable
M1039	Constant scan mode

◎ Step Ladder Diagram	
M1040	Step transition inhibit
M1041	Step transition start
M1042	Start pulse
M1043	Origin reset completed
M1044	Origin condition
M1045	All outputs clear inhibit
M1046	STL state setting
M1047	STL monitor enable
◎ Interrupt Inhibit Setting	
M1050	I 001 masked
M1051	I 101 masked
M1052	I 201 masked
M1053	I 301 masked
◎ Error Flags	
M1060	CPU hardware error
M1061	CPU internal malfunction (Flag)
M1062	CPU internal malfunction (BIOS)
M1063	CPU internal malfunction (RAM)
M1064	Operator error
M1065	Syntax error
M1066	Program error
M1067	Program execution error
M1068	Execution error latch (ref. D1068)
◎ PLC Operation Execution	
M1072	PLC RUN command execution
M1073	Grammar inspection flag
M1078	Y0 pulse output/stop control flag
M1079	Y1 pulse output/stop control flag
M1083	From / To mode exchange
◎ RS-485 Communication	
M1120	Communication protocol holding
M1121	Transmission ready

M1122	Sending request
M1123	Receiving completed
M1124	Receiving wait
M1125	Communication reset
M1126	STX/ETX selection
M1127	MODRD, RDST commands. Data receiving completed
M1128	Transmitting / Receiving indication
M1129	Receiving time out
M1130	STX/ETXselection
M1131	M1131=On during the conversion ( MODRD/RDST/MODRW data->HEX).
M1140	MODRD / MODWR data received error
M1141	MODRD / MODWR command error
M1142	VFD-A command data received error
M1143	ASCII / RTU mode selections
M1161	8/16-bit mode setting
◎ High Speed Counter (1-phase input)	
M1235	C235 counting mode (on: count down)
M1236	C236 counting mode (on: count down)
M1237	C237 counting mode (on: count down)
M1238	C238 counting mode (on: count down)
M1241	C241 counting mode (on: count down)
M1242	C242 counting mode (on: count down)
M1244	C244 counting mode (on: count down)
◎ High Speed Counter (1-phase 2 inputs)	
M1246	C246 monitor (on: count down)
M1247	C247 monitor (on: count down)
M1249	C249 monitor (on: count down)
◎ High Speed Counter (2-phase inputs)	
M1251	C251 monitor (on: count down)
M1252	C252 monitor (on: count down)
M1254	C254 monitor (on: count down)