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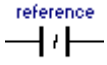
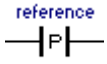
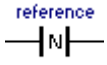
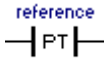
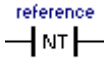
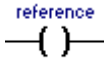
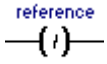
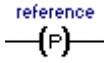
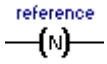
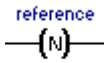
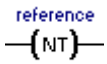
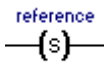
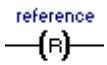
Ladder Library

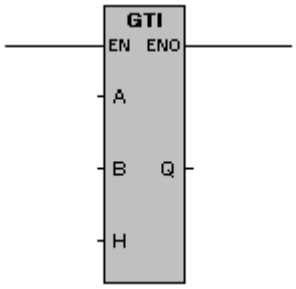
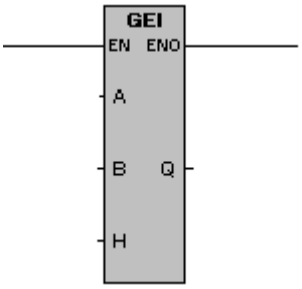
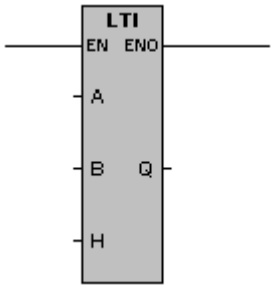
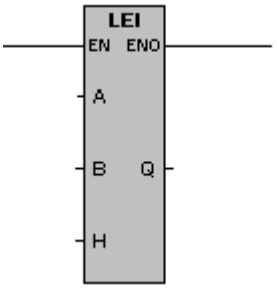
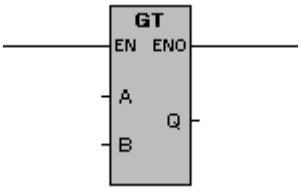
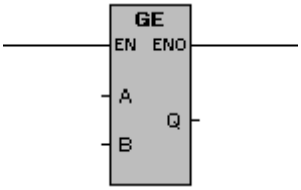
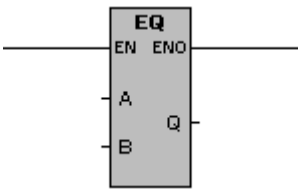
1. Contact Functions

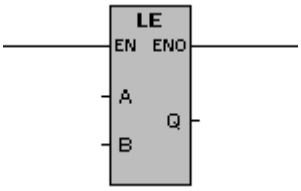
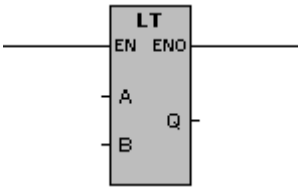
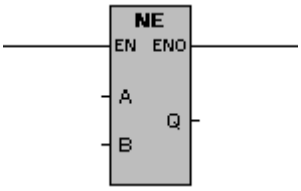
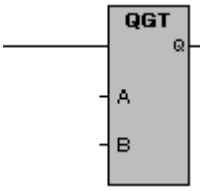
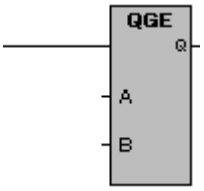
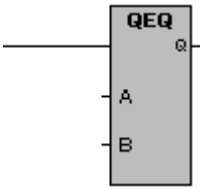
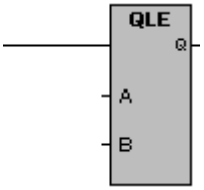
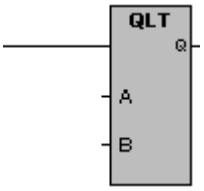
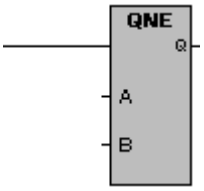
Simbol	Description
	Normally Open Contact
	Normally Closed Contact
	Positive Transition-Sensing Contact
	Negative Transition-Sensing Contact
	Positive Transition-Sensing Toggle Contact
	Negative Transition-Sensing Toggle Contact

2. Coil Functions

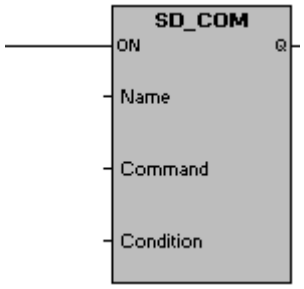
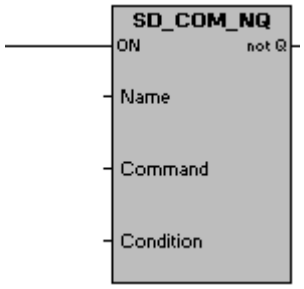
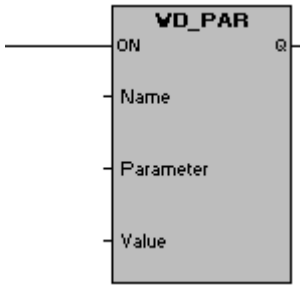
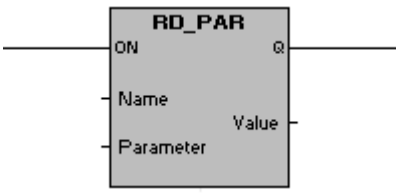
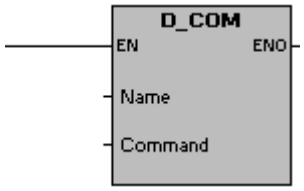
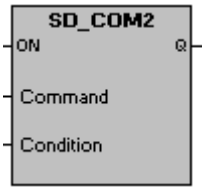
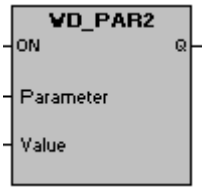
Simbol	Description
	Normally Open Coil
	Normally Closed Coil
	Positive Transition-Sensing Coil
	Negative Transition-Sensing Coil
	Positive Transition-Sensing Toggle Coil
	Negative Transition-Sensing Toggle Coil
	SET (Latch) Coil
	RESET (Unlatch) Coil

3. Comparison Functions

Simbol	Description
	GTI (Greater Than with Hysteresis)
	GEI (Greater or Equal with Hysteresis)
	LTI (Less Than with Hysteresis)
	LEI (Less or Equal with Hysteresis)
	GT (Greater Than)
	GE (Greater or Equal)
	EQ (Equal)

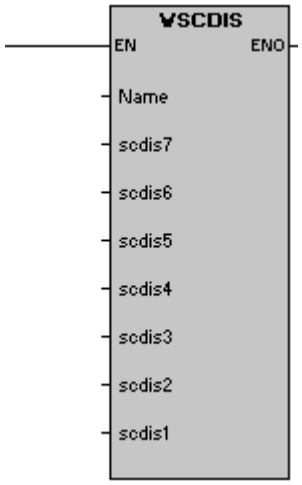
Simbol	Description
	LE (Less or Equal)
	LT (Less Than)
	NE (Not Equal)
	QGT (Greater Than)
	QGE (Greater or Equal)
	QEQ (Equal)
	QLE (Less or Equal)
	QLT (Less Than)
	QNE (Not Equal)

4. Device Functions

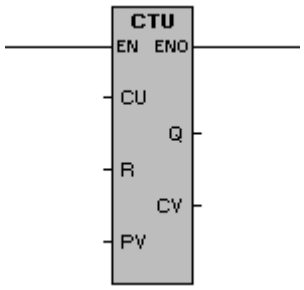
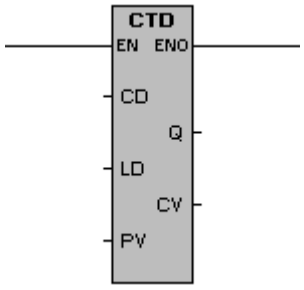
Simbol	Description
	SD_COM (Send Device Command) **OBSOLETE**
	SD_COM_NQ (Send Device Command with Negated Q) **OBSOLETE**
	WD_PAR (Write Device Parameter) **OBSOLETE**
	RD_PAR (Read Device Parameter) **OBSOLETE**
	D_COM (Device Command) **OBSOLETE**
	SD_COM2 (send a device command)
	SD_COM_NQ2 (send a device command with not Q)
	WD_PAR2 (write a device parameter)

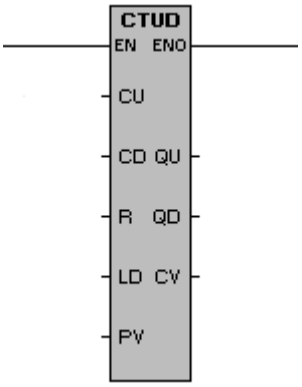
Simbol	Description
	RD_PAR2 (read a device parameter)
	D_COM2 (device command)

5. Device HMI Functions

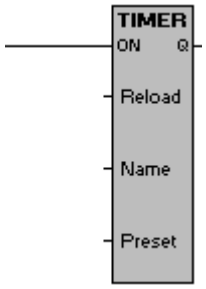
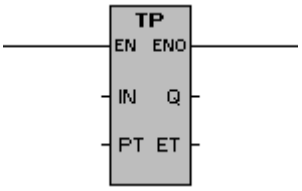
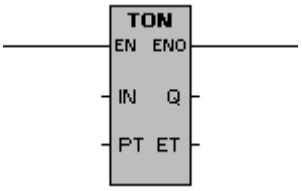
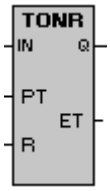
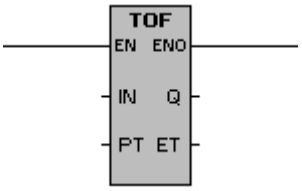
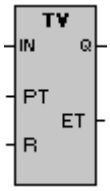
Simbol	Description
	WSCDIS (Write Screen Char Display)

6. Counter Functions

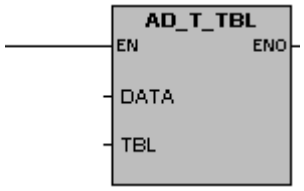
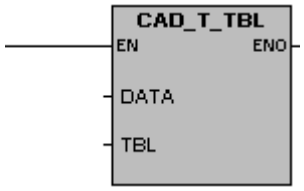
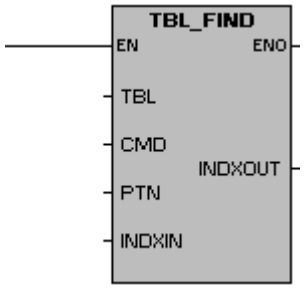
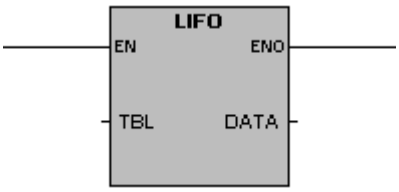
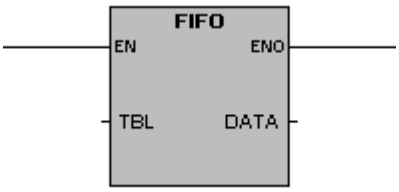
Simbol	Description
	CTU (Up Counter))
	CTD (Down Counter)

Simbol	Description
	CTUD (Up / Down Counter)

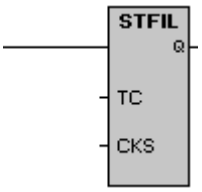
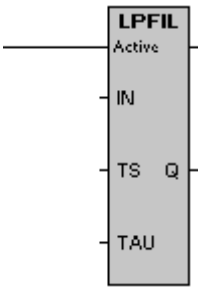
7. Timer Functions

Simbol	Description
	TIMER (On Delay)
	TP (Pulse)
	TON (On Delay)
	TONR (On- Delay Timer Retentive)
	TOF (Off Delay)
	TV (Pulse Protract)

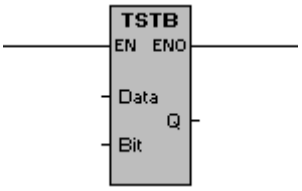
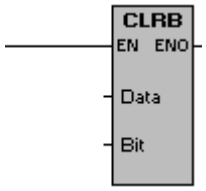
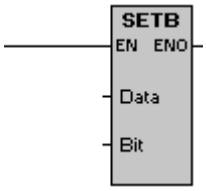
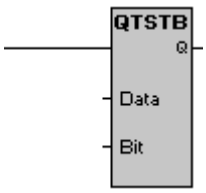
8. Table Functions

Simbol	Description
	AD_T_TBL (Add to Table)
	CAD_T_TBL (Circular Add to Table)
	TBL_FIND (Table Find)
	LIFO (Last In First Out)
	FIFO (First In First Out)

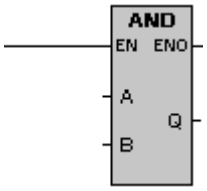
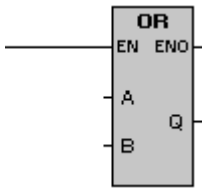
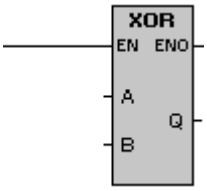
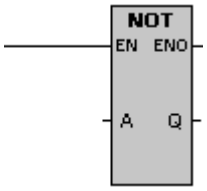
9. Filter Functions

Simbol	Description
	STFIL (State Filter)
	LPFIL (First Order Low Pass Filter)

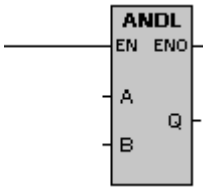
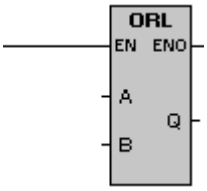
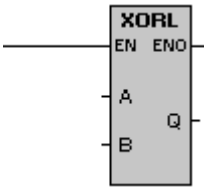
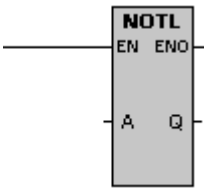
10. Bitwise Functions

Simbol	Description
	Bit Test
	Bit Clear
	Bit Set
	Bit Test

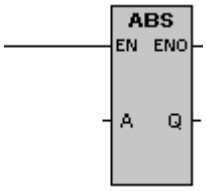
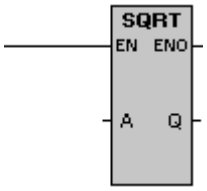
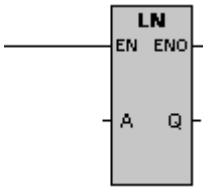
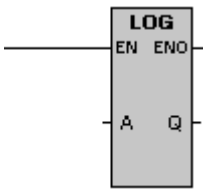
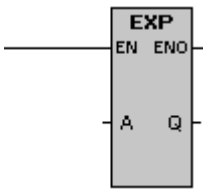
11. Boolenan Functions - Bitwise

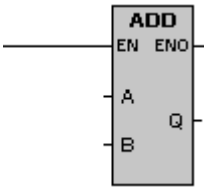
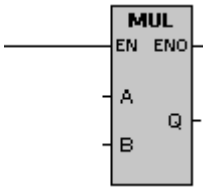
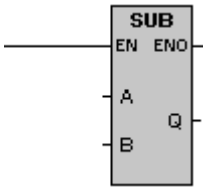
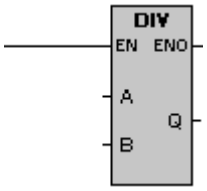
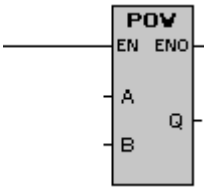
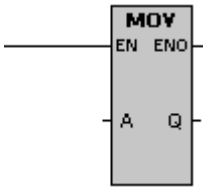
Simbol	Description
	And of 2 Input Bit Variables
	Or of 2 Input Bit Variables
	Xor of 2 Input Bit Variables
	Not of 1 Input Bit Variable

12. Boolenan Functions - Logical

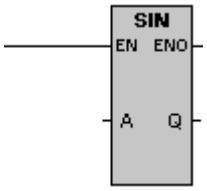
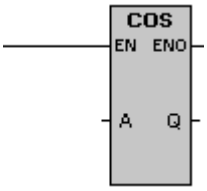
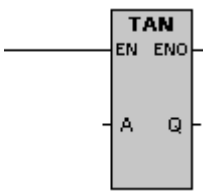
Simbol	Description
	And of 2 Input Variables
	Or of 2 Input Variables
	Xor of 2 Input Variables
	Not of 1 Input Variable

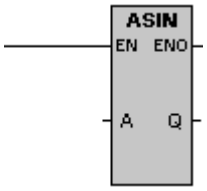
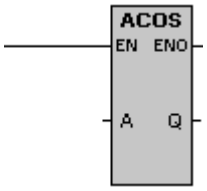
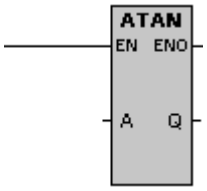
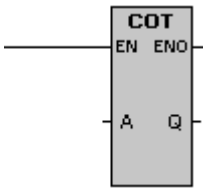
13. Math Functions

Simbol	Description
	ABS (Absolute Value)
	SQRT (Square Root)
	LN (Natural Logarithm)
	LOG (Logarithm Base 10)
	EXP (Natural Exponential)

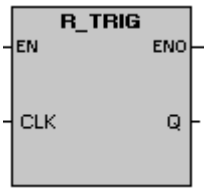
Simbol	Description
	ADD (2 Variables Addition)
	MUL (2 Variables Multiplication)
	SUB (2 Variables Subtraction)
	DIV (2 Variables Division)
	POW (to the Power of Y)
	MOV (Move Data)

14. Trigonometric Functions

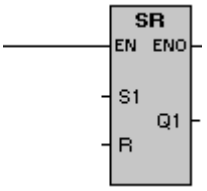
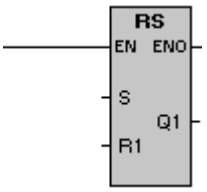
Simbol	Description
	SIN (Sine in Radiants)
	COS (Cosine in Radiants)
	TAN (Tangent in Radiants)

Simbol	Description
	ASIN (Arc Sine)
	ACOS (Arc Cosine)
	ATAN (Arc Tangent)
	COT (Cotangent in Radiants)

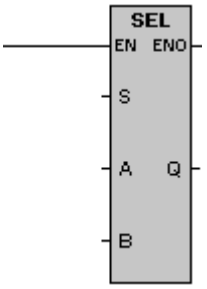
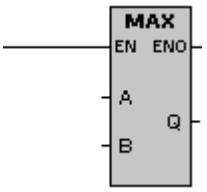
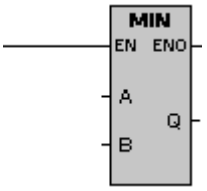
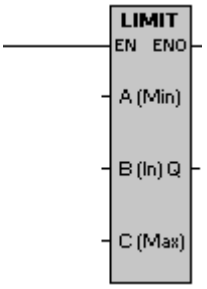
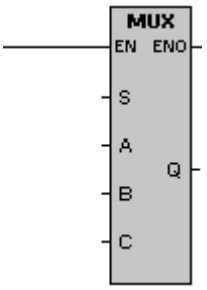
15. Edge Functions

Simbol	Description
	R_TRIG (Rising Edge Detector)
	F_TRIG (Falling Edge Detector)

16. Bistable Functions

Simbol	Description
	SR (Bistable Function Set Dominant)
	RS (Bistable Function Reset Dominant)

17. Selection Functions

Simbol	Description
	SEL (Binary Selection)
	MAX (Maximum Function)
	MIN (Minimum Function)
	LIMIT (Limiter)
	MUX (Multiplexer)

18. LADDER element symbols

Leggend

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