(\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

RTC - Real-time clock

Q is a copy of IN.

When IN = FALSE, CDT is the current date and time as set by the

PLC driver.

When IN changes from FALSE to TRUE, PDT is stored. As long as IN is

TRUE, CDT is equal to PDT + the amount of time since PDT was loaded.

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FUNCTION\_BLOCK RTC

VAR\_INPUT

IN : BOOL; (\* 0 - current time, 1 - load time from

PDT \*)

PDT : DT; (\* Preset datetime \*)

END\_VAR

VAR\_OUTPUT

Q : BOOL := FALSE; (\* Copy of IN \*)

CDT : DT; (\* Datetime, current or relative to PDT \*)

END\_VAR

VAR

PREV\_IN : BOOL := FALSE;

OFFSET : TIME;

CURRENT\_TIME : DT;

END\_VAR

{\_\_SET\_VAR(data\_\_->,CURRENT\_TIME,,\_\_CURRENT\_TIME)}

IF IN

THEN

IF NOT PREV\_IN

THEN

OFFSET := PDT - CURRENT\_TIME;

END\_IF;

(\* PDT + time since PDT was loaded \*)

CDT := CURRENT\_TIME + OFFSET;

ELSE

CDT := CURRENT\_TIME;

END\_IF;

Q := IN;

PREV\_IN := IN;

END\_FUNCTION\_BLOCK