RM_RotorAssy_Rev15_Sm@rtserver_V19 / PLC_1 [CPU 1215C DC/DC/DC] / Program blocks / Operation Functions

Preloader [FB3]

Preloader Properties							
General							
Name	Preloader	**Number**	3	**Type**	FB	**Language**	LAD
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Preloader

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
Output									
InOut									
Static									
Timers	Struct		Non-retain	True	True	True	False		
AC_Lock_Timer	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Hyd_clamp	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Lock	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Preload_Backoff	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
AC_Backoff	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Torque_Monitor	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
unlock	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
homing	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
initial_rundown	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
AC_Backoff2	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervision	Comment
HydHome_A	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
HydHome_B	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Hyd_clamp_2	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
AC_OFF_Dwell	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
unlock_delay_1	IEC_TIMER		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Counters	Struct		Non-retain	True	True	True	False		
Rework	IEC_COUNTER		Non-retain	True	True	True	True		
CU	Bool	false	Non-retain	True	True	True	False		
CD	Bool	false	Non-retain	True	True	True	False		
R	Bool	false	Non-retain	True	True	True	False		
LD	Bool	false	Non-retain	True	True	True	False		
QU	Bool	false	Non-retain	True	True	True	False		
QD	Bool	false	Non-retain	True	True	True	False		
PV	Int	0	Non-retain	True	True	True	False		
CV	Int	0	Non-retain	True	True	True	False		
reset	Bool	false	Non-retain	True	True	True	False		
Rework_count	Int	0	Non-retain	True	True	True	False		
Modbus_Done	IEC_COUNTER		Non-retain	True	True	True	True		
CU	Bool	false	Non-retain	True	True	True	False		
CD	Bool	false	Non-retain	True	True	True	False		
R	Bool	false	Non-retain	True	True	True	False		
LD	Bool	false	Non-retain	True	True	True	False		
QU	Bool	false	Non-retain	True	True	True	False		
QD	Bool	false	Non-retain	True	True	True	False		
PV	Int	0	Non-retain	True	True	True	False		
CV	Int	0	Non-retain	True	True	True	False		
Modbus_error	IEC_COUNTER		Non-retain	True	True	True	True		
CU	Bool	false	Non-retain	True	True	True	False		
CD	Bool	false	Non-retain	True	True	True	False		
R	Bool	false	Non-retain	True	True	True	False		
LD	Bool	false	Non-retain	True	True	True	False		
QU	Bool	false	Non-retain	True	True	True	False		
QD	Bool	false	Non-retain	True	True	True	False		
PV	Int	0	Non-retain	True	True	True	False		
CV	Int	0	Non-retain	True	True	True	False		
Saved_Torq_condition	Int	0	Non-retain	True	True	True	False		0= Pass, 1= tight, 2= loose
MB_Communication	MB_COMM_LOAD			True	True	True	True		
Input									
REQ	Bool	false	Non-retain	True	True	True	False		The enable to initiate a Modbus configuration operation
PORT	PORT	16#FFFF	Non-retain	True	True	True	False		The PtP hardware address
BAUD	UDInt	0	Non-retain	True	True	True	False		The baud rate of the PtP port
PARITY	UInt	0	Non-retain	True	True	True	False		The parity of the PtP port
FLOW_CTRL	UInt	0	Non-retain	True	True	True	False		Transmit and receive flow control
RTS_ON_DLY	UInt	0	Non-retain	True	True	True	False		The enable time of RTS before sending the first character
RTS_OFF_DLY	UInt	0	Non-retain	True	True	True	False		The enable time of RTS after sending the last character

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervision	Comment
RESP_TO	UInt	1000	Non-retain	True	True	True	False		The time to wait for the Modbus slave to respond
▼ Output									
DONE	Bool	false	Non-retain	True	True	True	False		Boolean indicating completion without error
ERROR	Bool	false	Non-retain	True	True	True	False		Boolean indicating completion with error
STATUS	Word	16#0	Non-retain	True	True	True	False		Status of the current operation
▼ InOut									
MB_DB	MB_BASE			False	False	False	False		The instance DB of the Modbus master or slave
▼ Static									
ICHAR_GAP	UInt	0	Non-retain	True	True	True	False		
RETRIES	UInt	2	Non-retain	True	True	True	False		
WRREC_STATUS	Word	2	Non-retain	True	True	True	False		
RDREC_STATUS	Word	2	Non-retain	True	True	True	False		
SFC_STATUS	Word	2	Non-retain	True	True	True	False		
▼ Port_CFG_SFB	Array[0..25] of Byte		Non-retain	False	False	False	False		
Port_CFG_SFB[0]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[1]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[2]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[3]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[4]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[5]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[6]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[7]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[8]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[9]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[10]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[11]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[12]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[13]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[14]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[15]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[16]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[17]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[18]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[19]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[20]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[21]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[22]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[23]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[24]	Byte	16#0	Non-retain	False	False	False	False		
Port_CFG_SFB[25]	Byte	16#0	Non-retain	False	False	False	False		
▼ Send_CFG_SFB	Array[0..16] of Byte		Non-retain	False	False	False	False		
Send_CFG_SFB[0]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[1]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[2]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[3]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[4]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[5]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[6]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[7]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[8]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[9]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[10]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[11]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[12]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[13]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[14]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[15]	Byte	16#0	Non-retain	False	False	False	False		
Send_CFG_SFB[16]	Byte	16#0	Non-retain	False	False	False	False		
▼ Rcv_CFG_SFB	Array[0..60] of Byte		Non-retain	False	False	False	False		
Rcv_CFG_SFB[0]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[1]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[2]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[3]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[4]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[5]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[6]	Byte	16#0	Non-retain	False	False	False	False		

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervision	Comment
Rcv_CFG_SFB[7]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[8]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[9]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[10]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[11]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[12]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[13]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[14]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[15]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[16]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[17]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[18]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[19]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[20]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[21]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[22]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[23]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[24]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[25]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[26]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[27]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[28]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[29]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[30]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[31]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[32]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[33]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[34]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[35]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[36]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[37]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[38]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[39]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[40]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[41]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[42]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[43]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[44]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[45]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[46]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[47]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[48]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[49]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[50]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[51]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[52]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[53]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[54]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[55]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[56]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[57]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[58]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[59]	Byte	16#0	Non-retain	False	False	False	False		
Rcv_CFG_SFB[60]	Byte	16#0	Non-retain	False	False	False	False		
STOP_BITS	USInt	1	Non-retain	True	True	True	False		
▼ MB_MASTER	MB_MASTER			True	True	True	True		
▼ Base	MB_BASE			True	True	True	True		
Input									
Output									
InOut									
▼ Static									
S_PORT	UInt	16#FFFF	Non-retain	False	False	False	False		
S_RESP_TO	UInt	1000	Non-retain	False	False	False	False		
S_ICHAR_GAP	UInt	28	Non-retain	False	False	False	False		
S_RETRIES	UInt	2	Non-retain	False	False	False	False		
▼ Input									
REQ	Bool	false	Non-retain	True	True	True	False		The enable to initiate a Modbus master request
MB_ADDR	UInt	0	Non-retain	True	True	True	False		The station address of the Modbus slave
MODE	USInt	0	Non-retain	True	True	True	False		Specifies a read, write, or diagnostic operation
DATA_ADDR	UDInt	0	Non-retain	True	True	True	False		The Modbus data address

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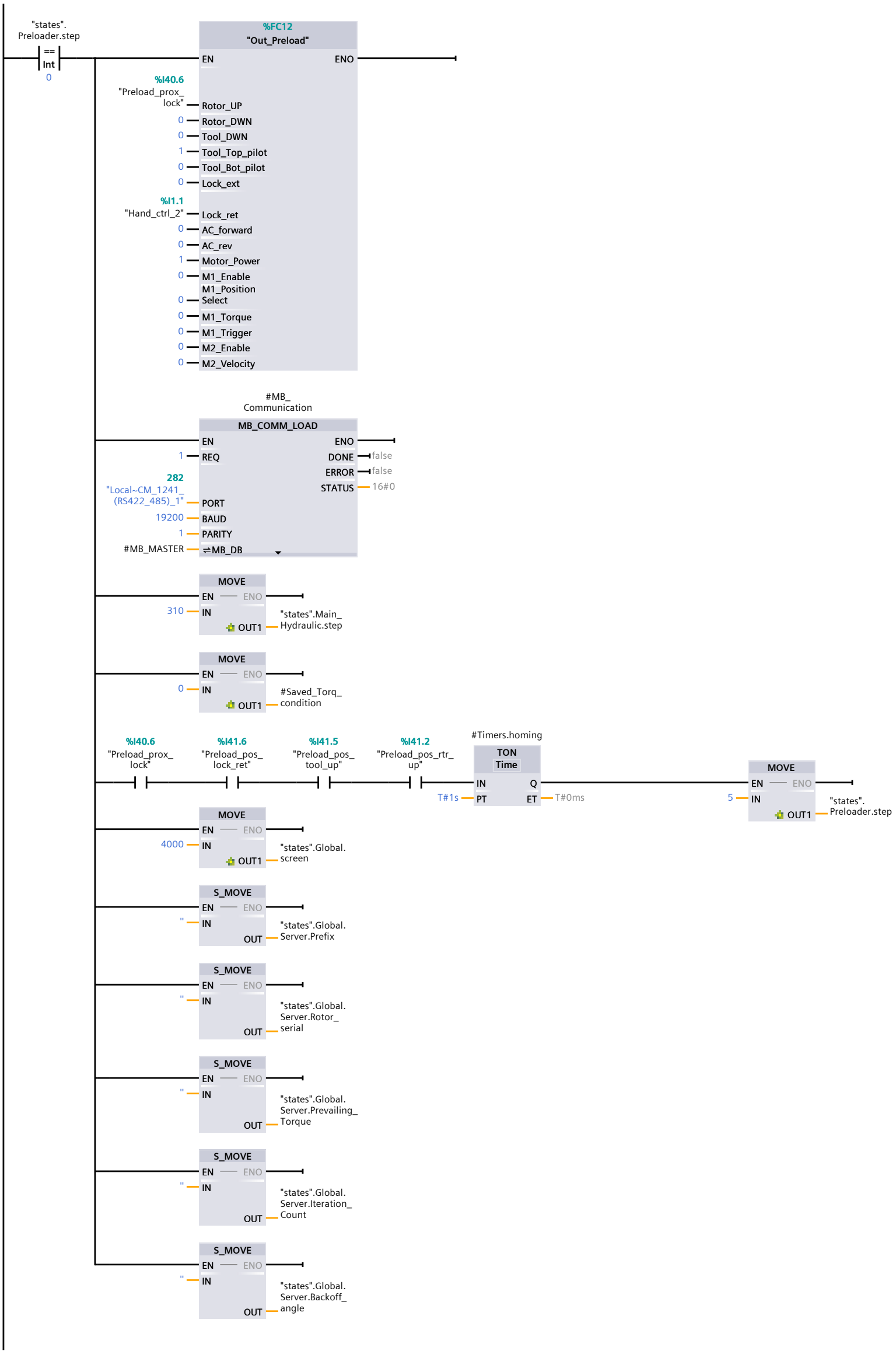
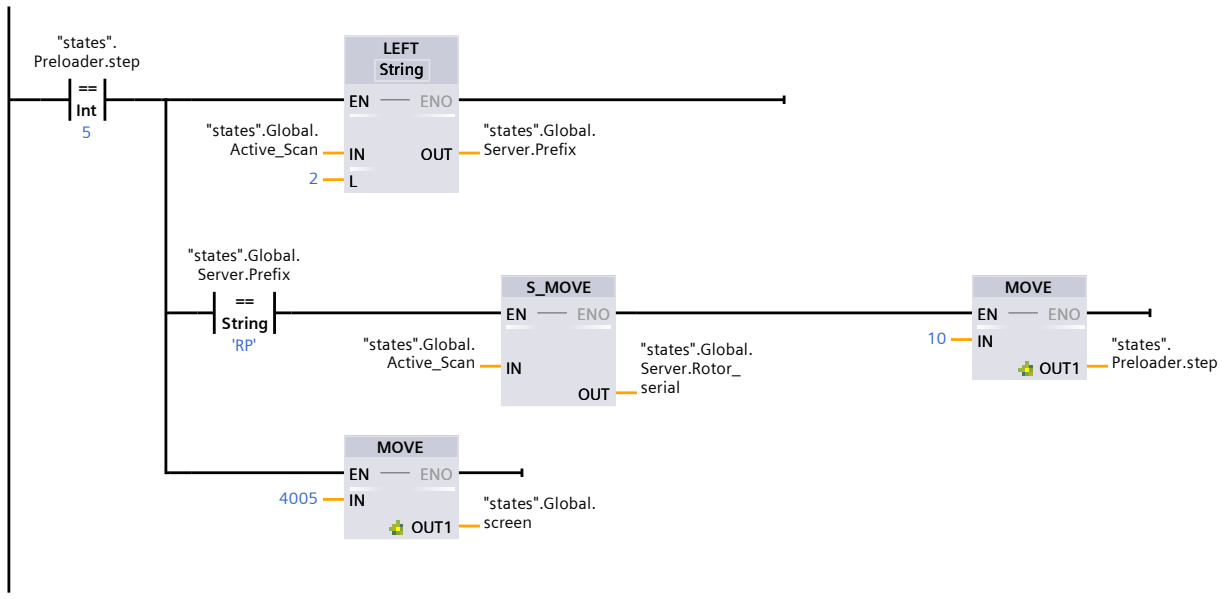
DATA_LEN	UInt	0	Non-retain	True	True	True	False		The Modbus data length
▼ Output									
DONE	Bool	false	Non-retain	True	True	True	False		Boolean indicating completion without error
BUSY	Bool	false	Non-retain	True	True	True	False		Boolean indicating operation in progress
ERROR	Bool	false	Non-retain	True	True	True	False		Boolean indicating completion with error
STATUS	Word	16#0	Non-retain	True	True	True	False		Status or error code of the completed operation
▼ InOut									
DATA_PTR	Variant			False	False	False	False		Data area used to communicate with the Modbus slave
▼ Static									
▼ SEND_PTP_SFB	Array[0..11] of Byte		Non-retain	False	False	False	False		
SEND_PTP_SFB[0]	Byte	16#0	Non-retain	False	False	False	False		
SEND_PTP_SFB[1]	Byte	16#0	Non-retain	False	False	False	False		
SEND_PTP_SFB[2]	Byte	16#0	Non-retain	False	False	False	False		
SEND_PTP_SFB[3]	Byte	16#0	Non-retain	False	False	False	False		
SEND_PTP_SFB[4]	Byte	16#0	Non-retain	False	False	False	False		
SEND_PTP_SFB[5]	Byte	16#0	Non-retain	False	False	False	False		
SEND_PTP_SFB[6]	Byte	16#0	Non-retain	False	False	False	False		
SEND_PTP_SFB[7]	Byte	16#0	Non-retain	False	False	False	False		
SEND_PTP_SFB[8]	Byte	16#0	Non-retain	False	False	False	False		
SEND_PTP_SFB[9]	Byte	16#0	Non-retain	False	False	False	False		
SEND_PTP_SFB[10]	Byte	16#0	Non-retain	False	False	False	False		
SEND_PTP_SFB[11]	Byte	16#0	Non-retain	False	False	False	False		
▼ RCV_PTP_SFB	Array[0..11] of Byte		Non-retain	False	False	False	False		
RCV_PTP_SFB[0]	Byte	16#0	Non-retain	False	False	False	False		
RCV_PTP_SFB[1]	Byte	16#0	Non-retain	False	False	False	False		
RCV_PTP_SFB[2]	Byte	16#0	Non-retain	False	False	False	False		
RCV_PTP_SFB[3]	Byte	16#0	Non-retain	False	False	False	False		
RCV_PTP_SFB[4]	Byte	16#0	Non-retain	False	False	False	False		
RCV_PTP_SFB[5]	Byte	16#0	Non-retain	False	False	False	False		
RCV_PTP_SFB[6]	Byte	16#0	Non-retain	False	False	False	False		
RCV_PTP_SFB[7]	Byte	16#0	Non-retain	False	False	False	False		
RCV_PTP_SFB[8]	Byte	16#0	Non-retain	False	False	False	False		
RCV_PTP_SFB[9]	Byte	16#0	Non-retain	False	False	False	False		
RCV_PTP_SFB[10]	Byte	16#0	Non-retain	False	False	False	False		
RCV_PTP_SFB[11]	Byte	16#0	Non-retain	False	False	False	False		
▼ RCV_RST_SFB	Array[0..9] of Byte		Non-retain	False	False	False	False		
RCV_RST_SFB[0]	Byte	16#0	Non-retain	False	False	False	False		
RCV_RST_SFB[1]	Byte	16#0	Non-retain	False	False	False	False		
RCV_RST_SFB[2]	Byte	16#0	Non-retain	False	False	False	False		
RCV_RST_SFB[3]	Byte	16#0	Non-retain	False	False	False	False		
RCV_RST_SFB[4]	Byte	16#0	Non-retain	False	False	False	False		
RCV_RST_SFB[5]	Byte	16#0	Non-retain	False	False	False	False		
RCV_RST_SFB[6]	Byte	16#0	Non-retain	False	False	False	False		
RCV_RST_SFB[7]	Byte	16#0	Non-retain	False	False	False	False		
RCV_RST_SFB[8]	Byte	16#0	Non-retain	False	False	False	False		
RCV_RST_SFB[9]	Byte	16#0	Non-retain	False	False	False	False		
PF_FREQUENCY	Real	0.0	Non-retain	False	False	False	False		
BLOCKED_PROC_TIMEOUT	Real	3.0	Non-retain	True	True	True	False		
CURRENT_TIME_VALUE	UDInt	0	Non-retain	False	False	False	False		
SAVED_TIME_VALUE	UDInt	0	Non-retain	False	False	False	False		
SAVED_SLAVE_ADDR	Word	0	Non-retain	False	False	False	False		
SAVED_MODE	Word	0	Non-retain	False	False	False	False		
SAVED_DATA_ADDR	DWord	0	Non-retain	False	False	False	False		
SAVED_DATA_LEN	UInt	0	Non-retain	False	False	False	False		
MB_STATE	UInt	0	Non-retain	False	False	False	False		
COMM_SENT_COUNT	UInt	0	Non-retain	False	False	False	False		
BYTE_COUNT	USInt	0	Non-retain	False	False	False	False		
INIT_OK	Bool	false	Non-retain	False	False	False	False		
ACTIVE	Bool	false	Non-retain	False	False	False	False		
BROADCAST_FLAG	Bool	false	Non-retain	False	False	False	False		
EXTENDED_ADDRESSING	Bool	false	Non-retain	True	True	True	False		
SAVED_START_ADDR	UInt	0	Non-retain	False	False	False	False		
TXBuf_Function_Offset	UDInt	0	Non-retain	False	False	False	False		
TXBuf_Address_Offset	UDInt	0	Non-retain	False	False	False	False		
TXBuf_Quantity_Offset	UDInt	0	Non-retain	False	False	False	False		

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervision	Comment
MODBUS	Struct		Non-retain	True	True	True	False		
done	Bool	false	Non-retain	True	True	True	False		
busy	Bool	false	Non-retain	True	True	True	False		
error	Bool	false	Non-retain	True	True	True	False		
status	Word	16#0	Non-retain	True	True	True	False		
Stored_status	Word	16#0	Non-retain	True	True	True	False		
Transaction_valid	Struct		Non-retain	True	True	True	False		
serial	Bool	false	Non-retain	True	True	True	False		
iteration	Bool	false	Non-retain	True	True	True	False		
backoff	Bool	false	Non-retain	True	True	True	False		
torque	Bool	false	Non-retain	True	True	True	False		
overall	Bool	false	Non-retain	True	True	True	False		
complete_row	Bool	false	Non-retain	True	True	True	False		
Temp									
Torque_complete_mem	Bool								
AC_OK_mem	Bool								
AC_NOK_mem	Bool								
Previous_angle	Real								
Constant									

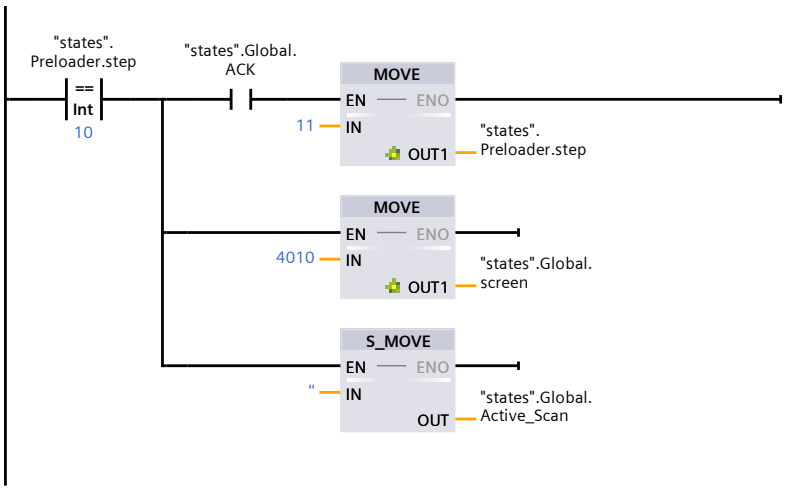
Network 1: Home cylinders



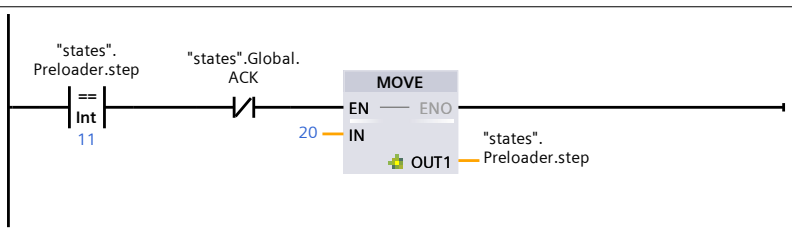
Network 2: Scan Rotor



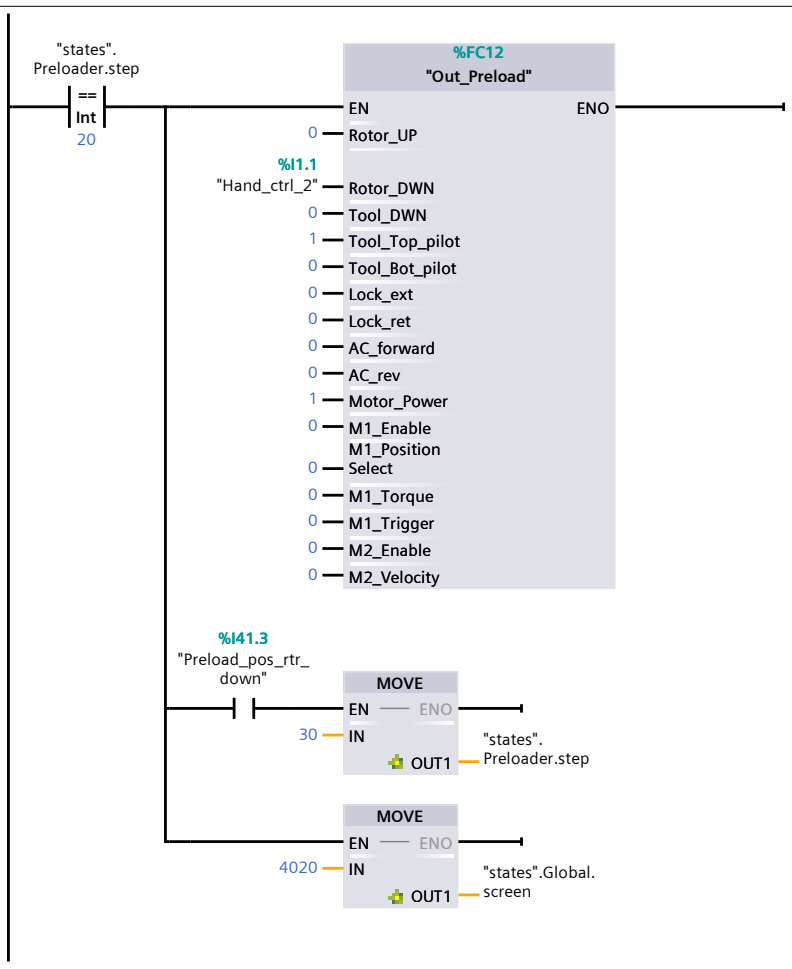
Network 3: Load Rotor



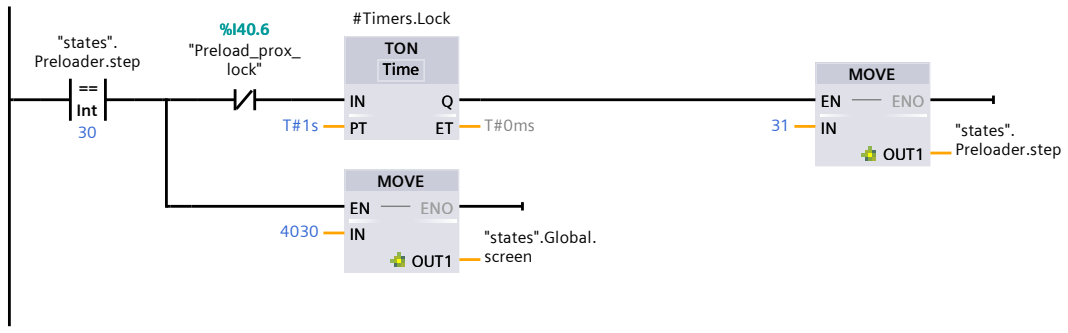
Network 4: NACK



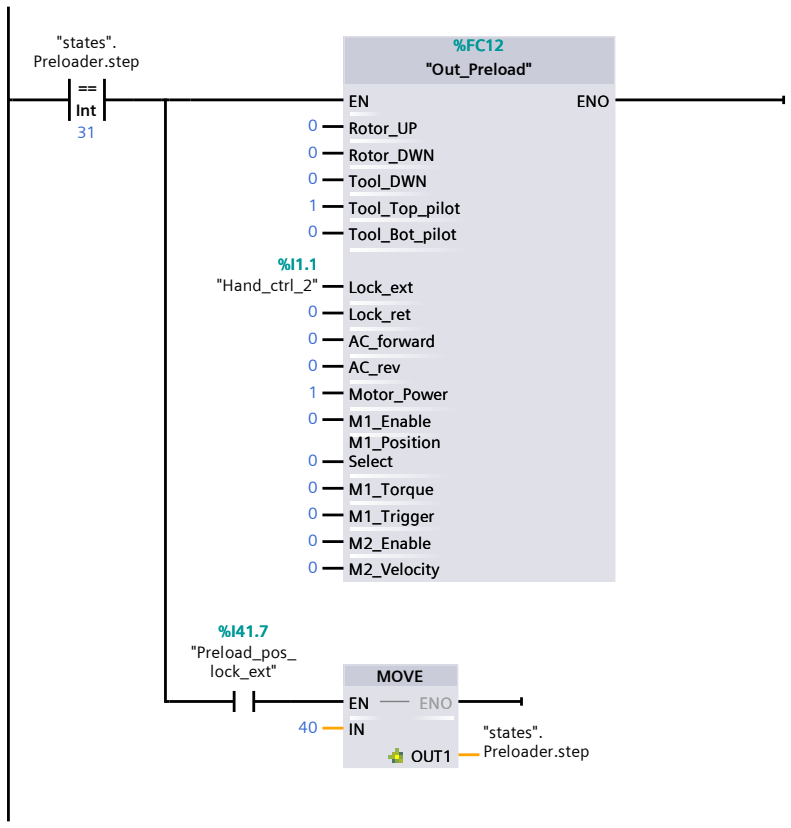
Network 5: lower rotor



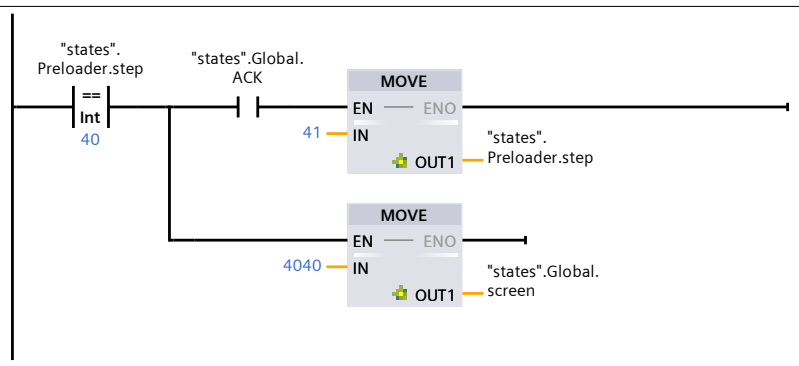
Network 6: Move Lock



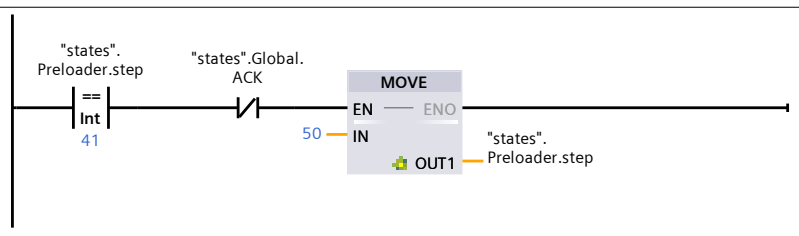
Network 7: extend Lock Cylinder



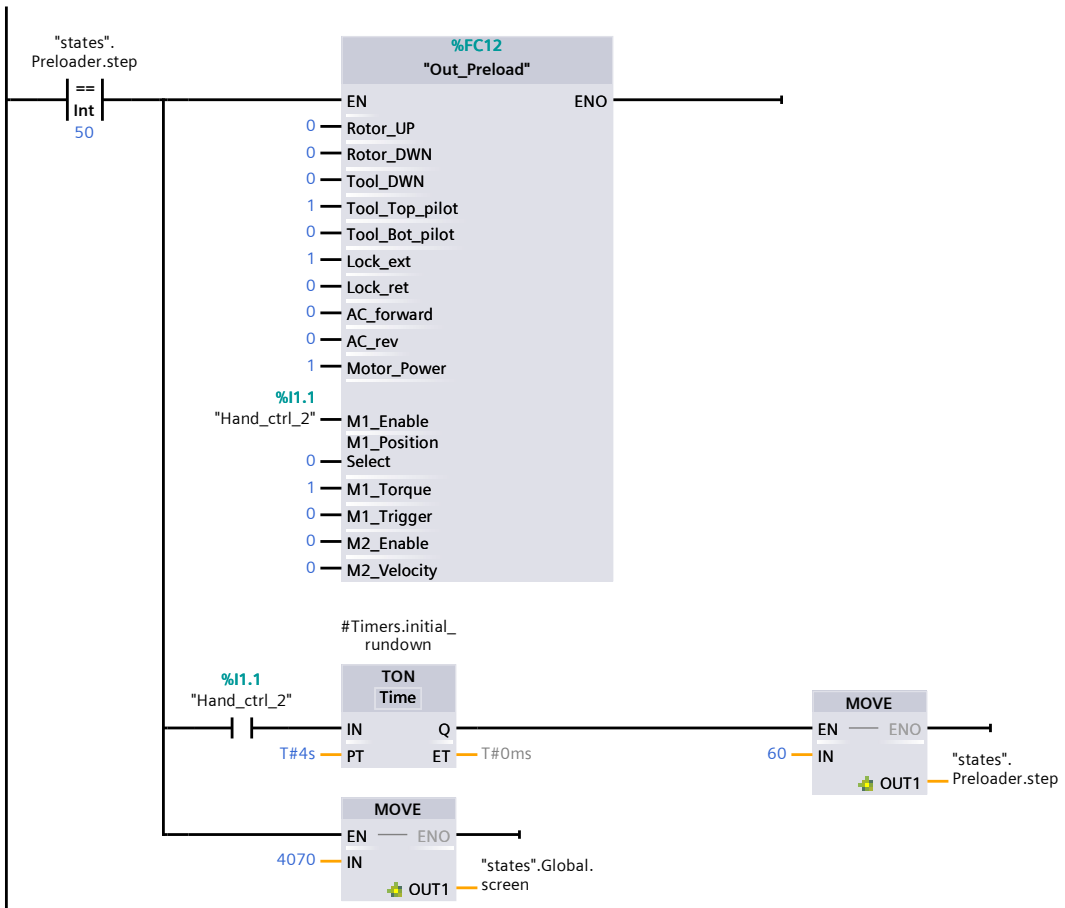
Network 8: install tab washer and second nut



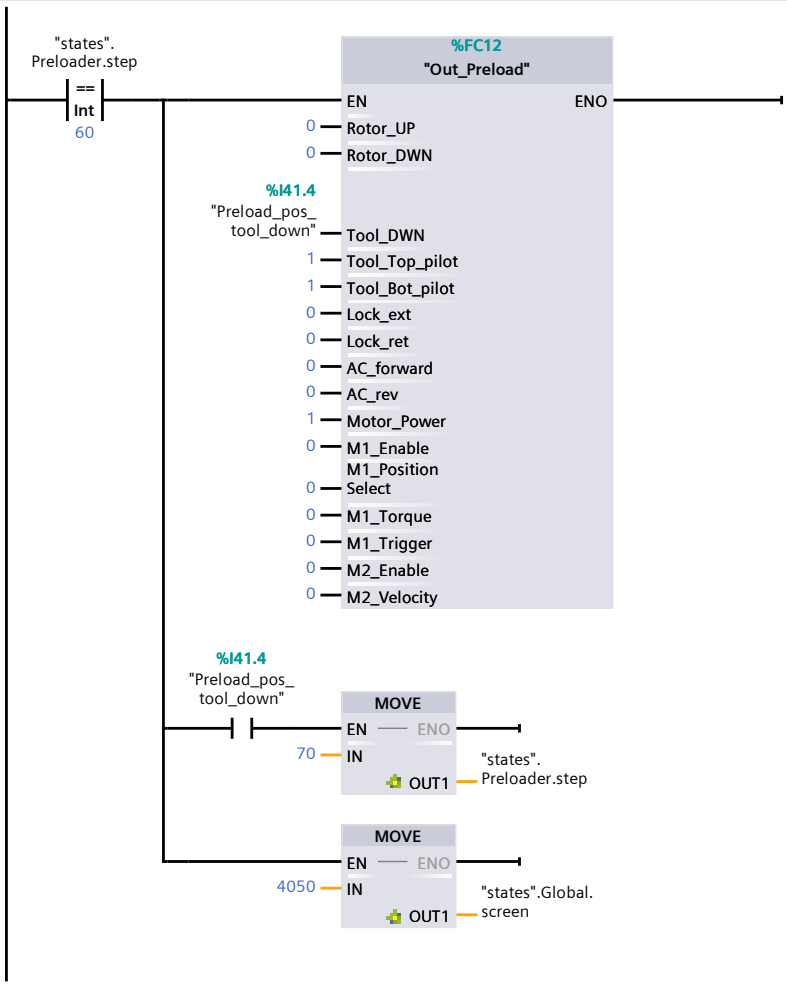
Network 9: NACK



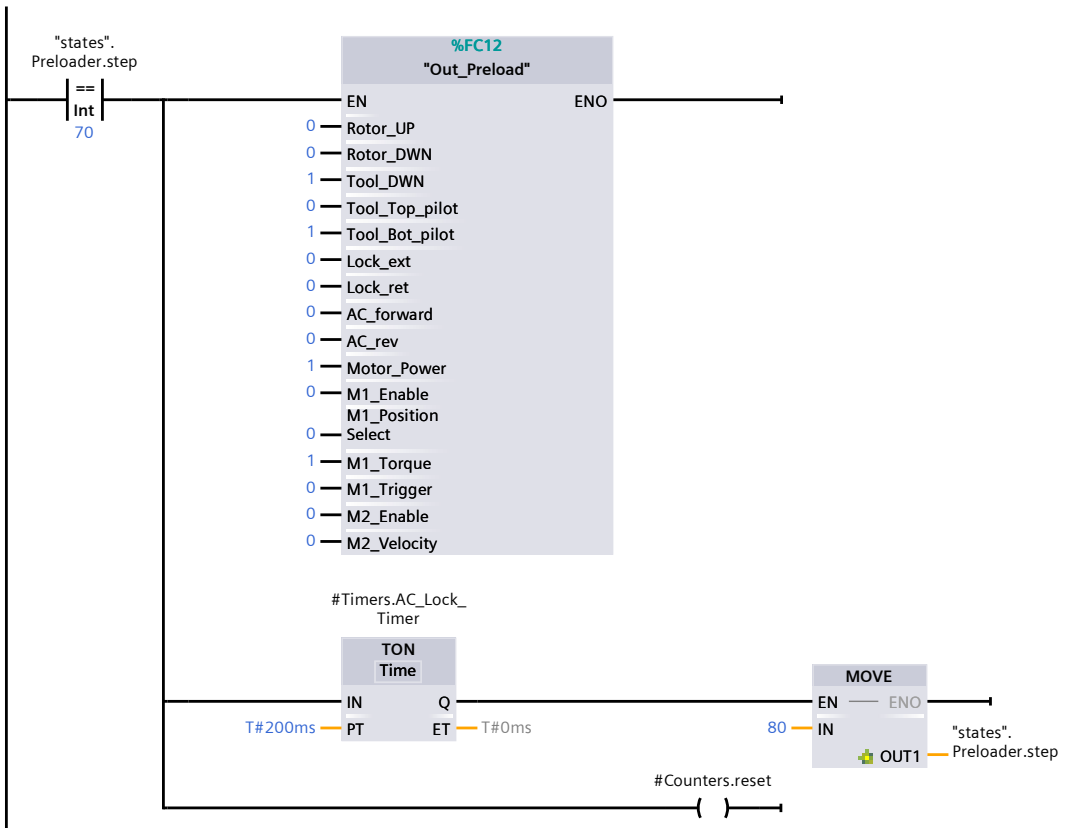
Network 10: Tighten first nut to 15ftlbs



Network 11: Lower AC tool

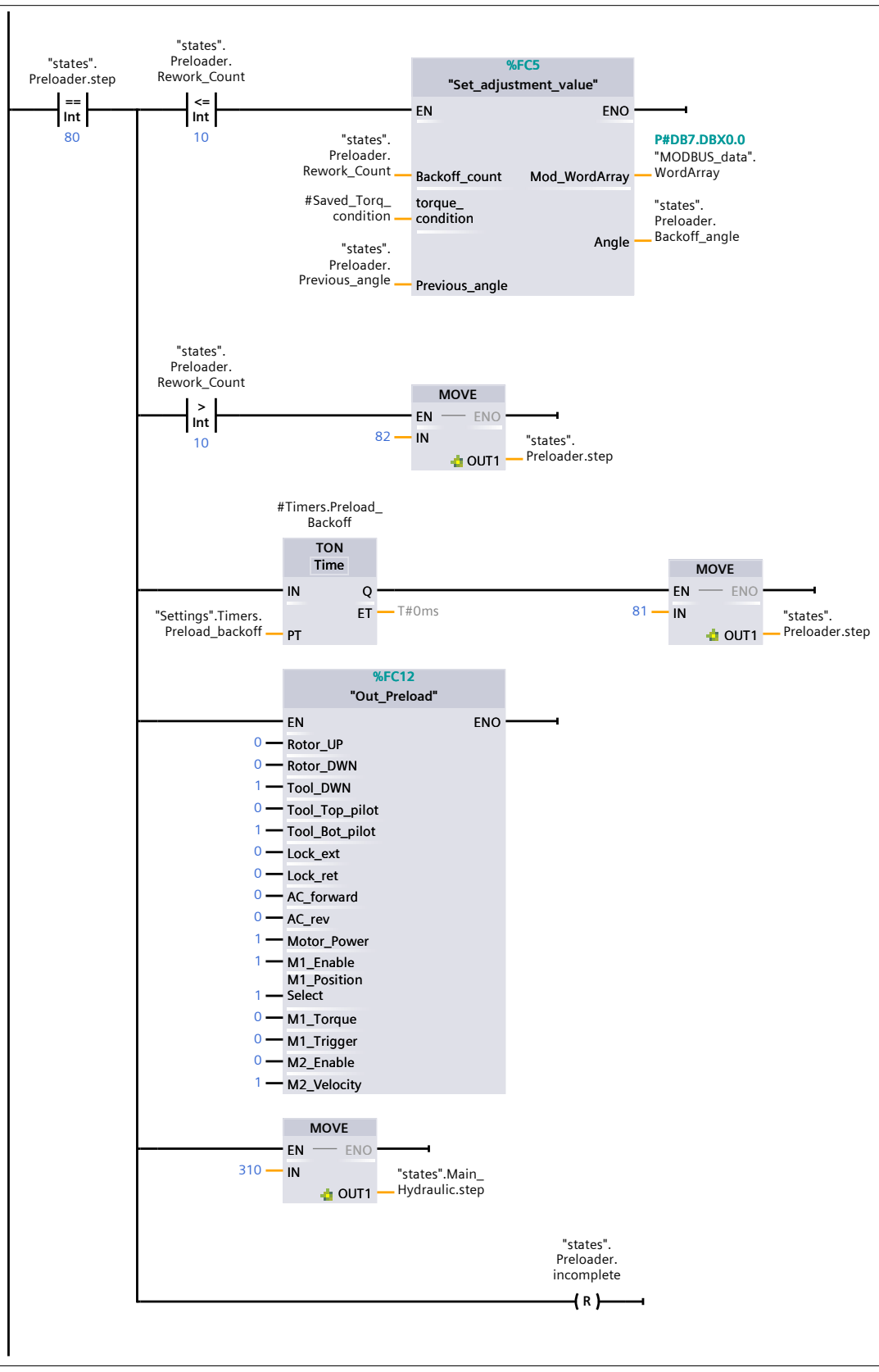


Network 12: Lock Tool

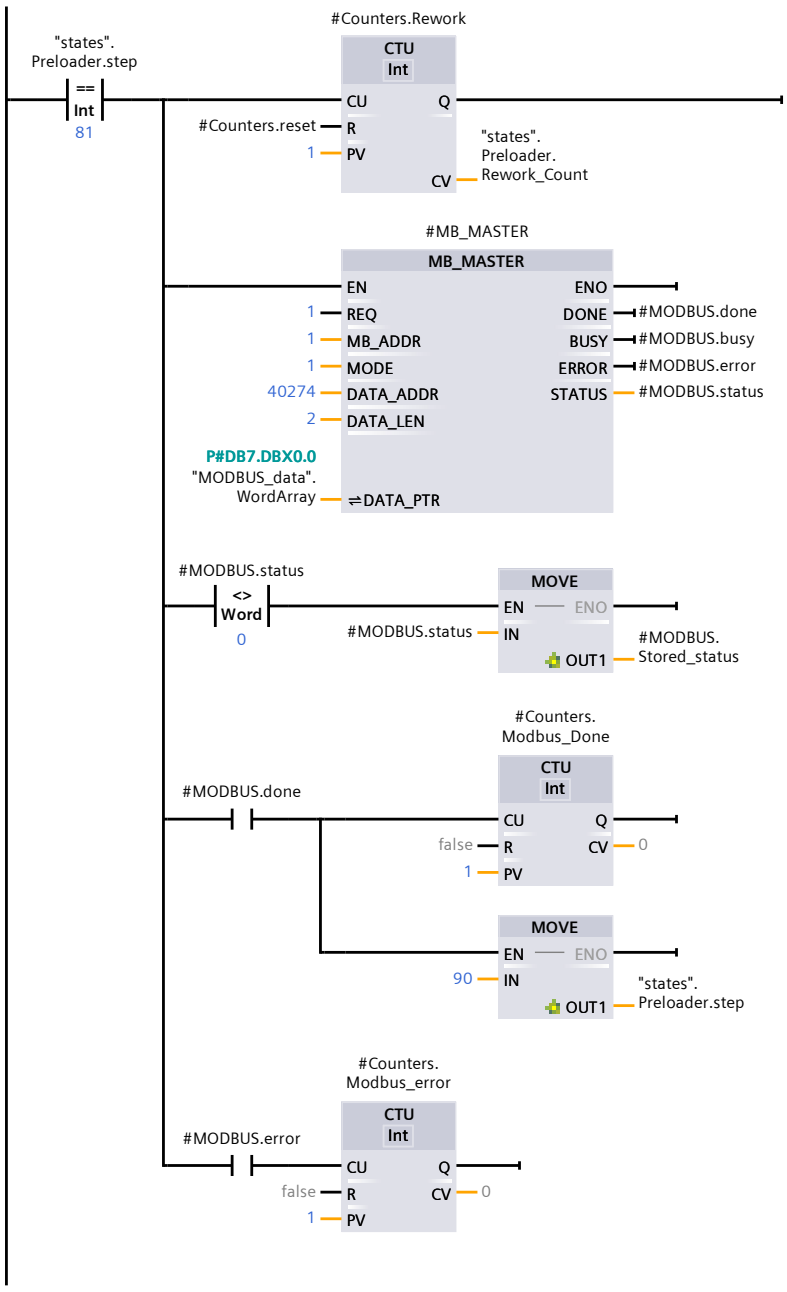


Network 13: set back-off value

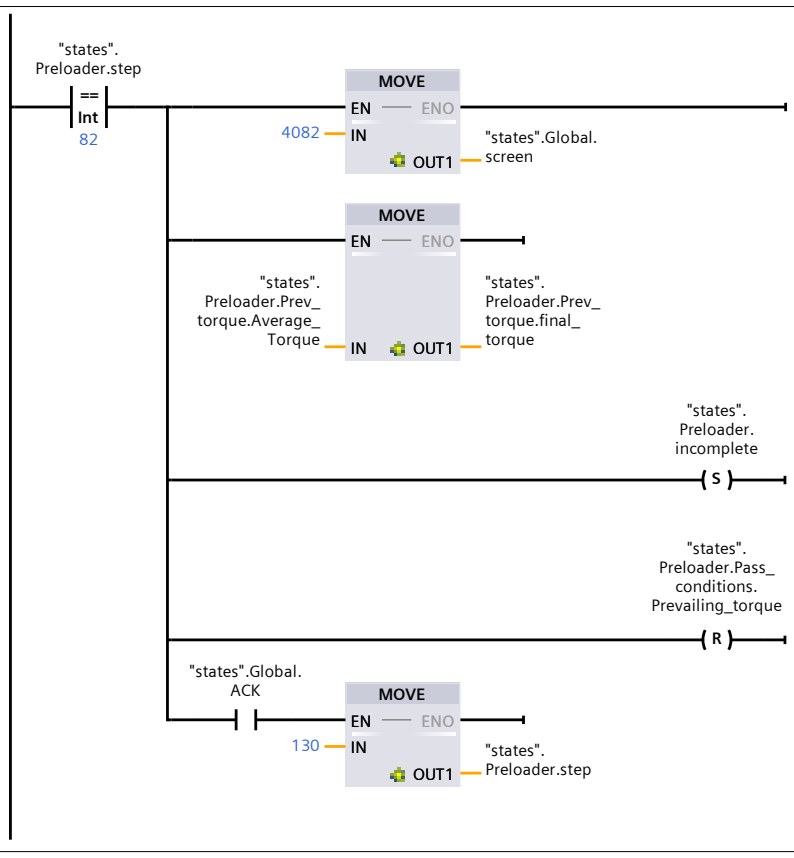
Set value for back off angle approx 277.8 counts per degree output



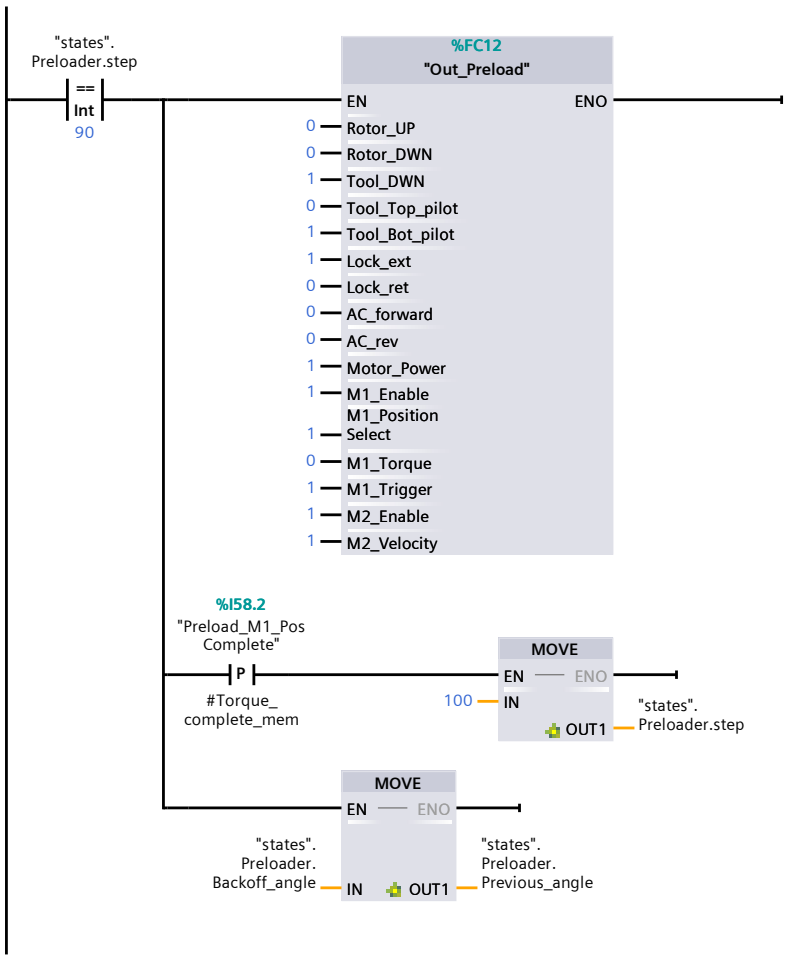
Network 14: Send back-off value to motor controller



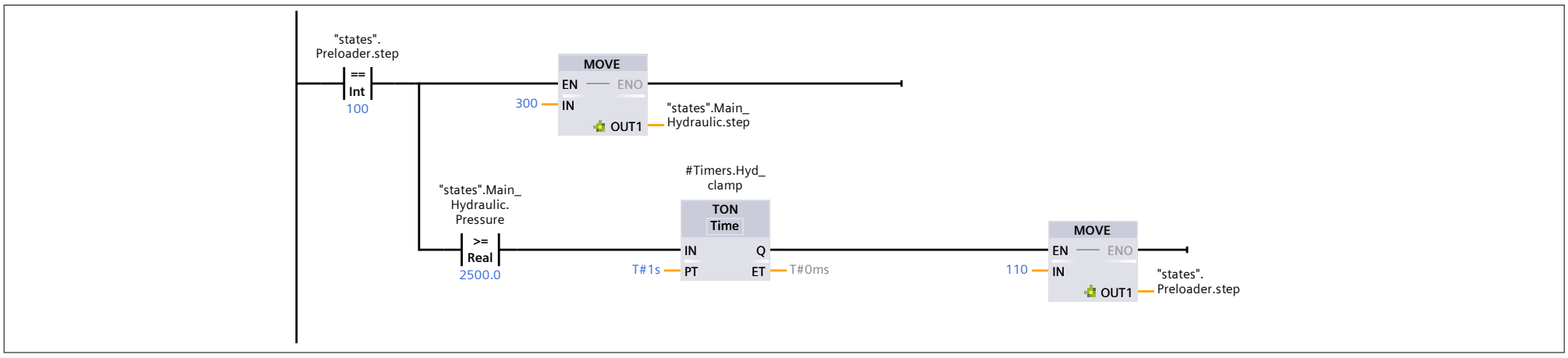
Network 15: too many attempt fault



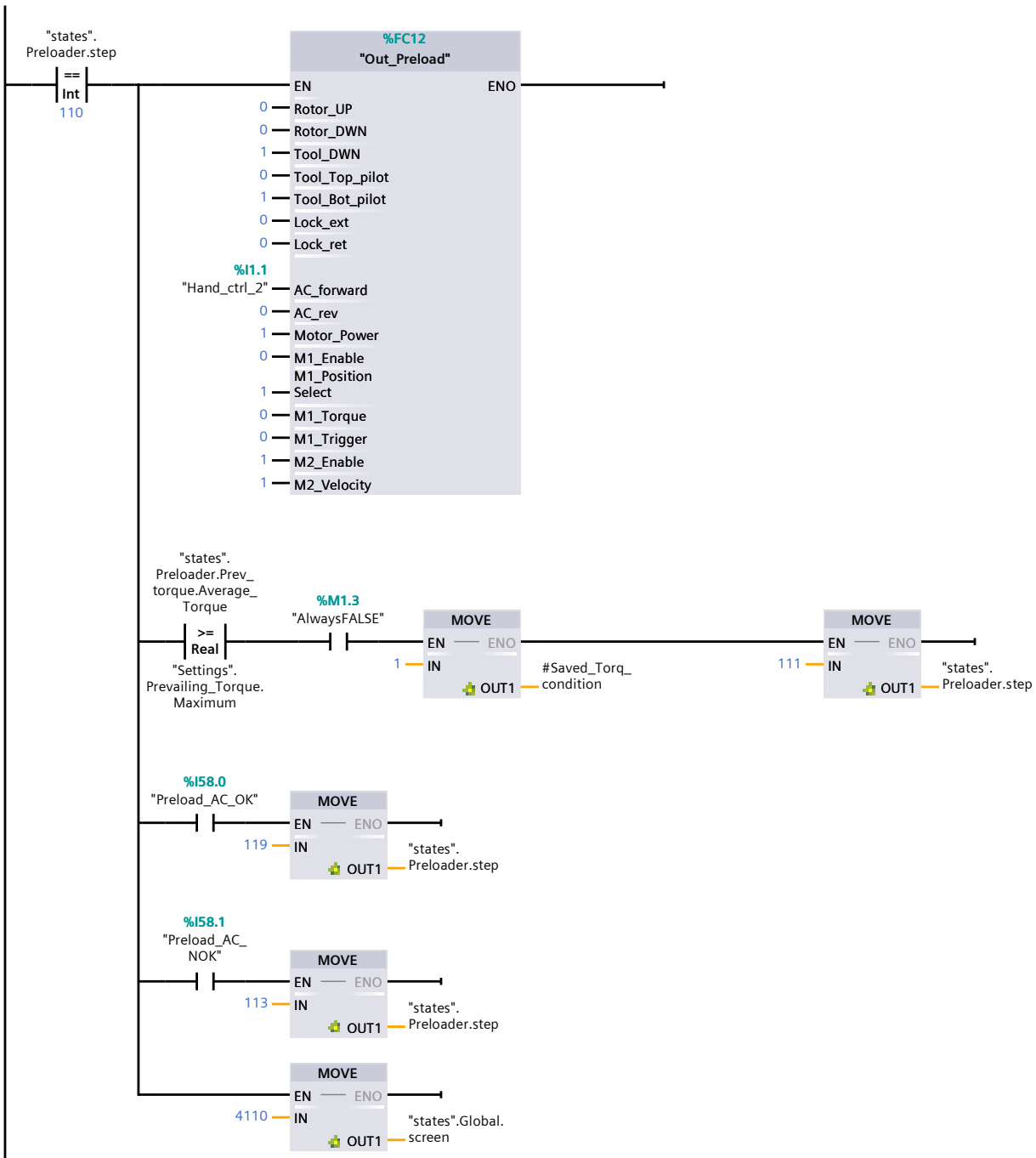
Network 16: back off to position



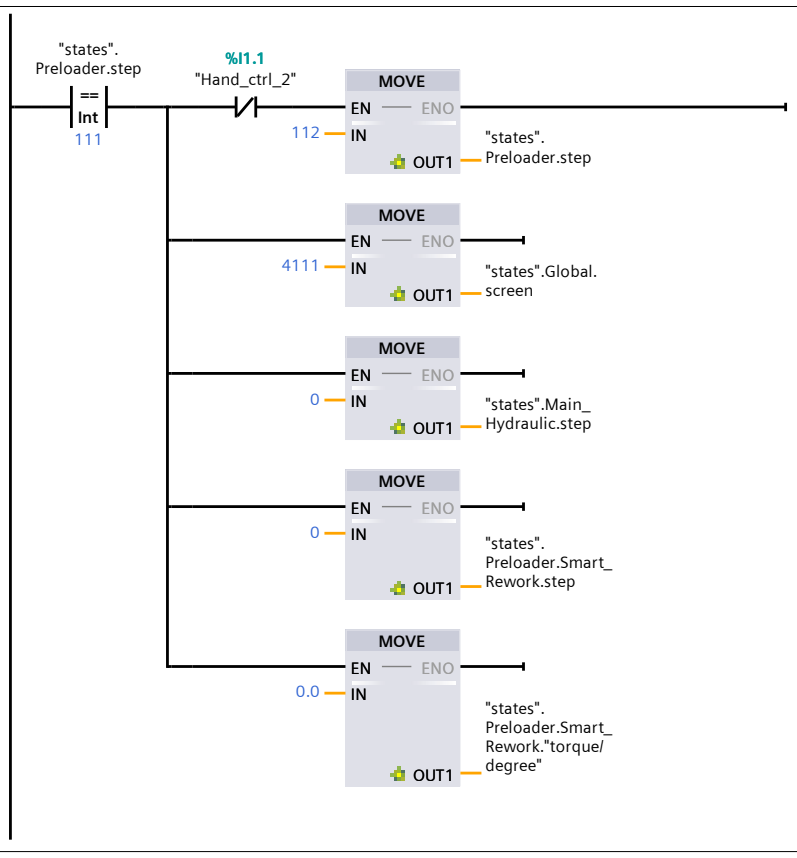
Network 17: lock/clamp rotor



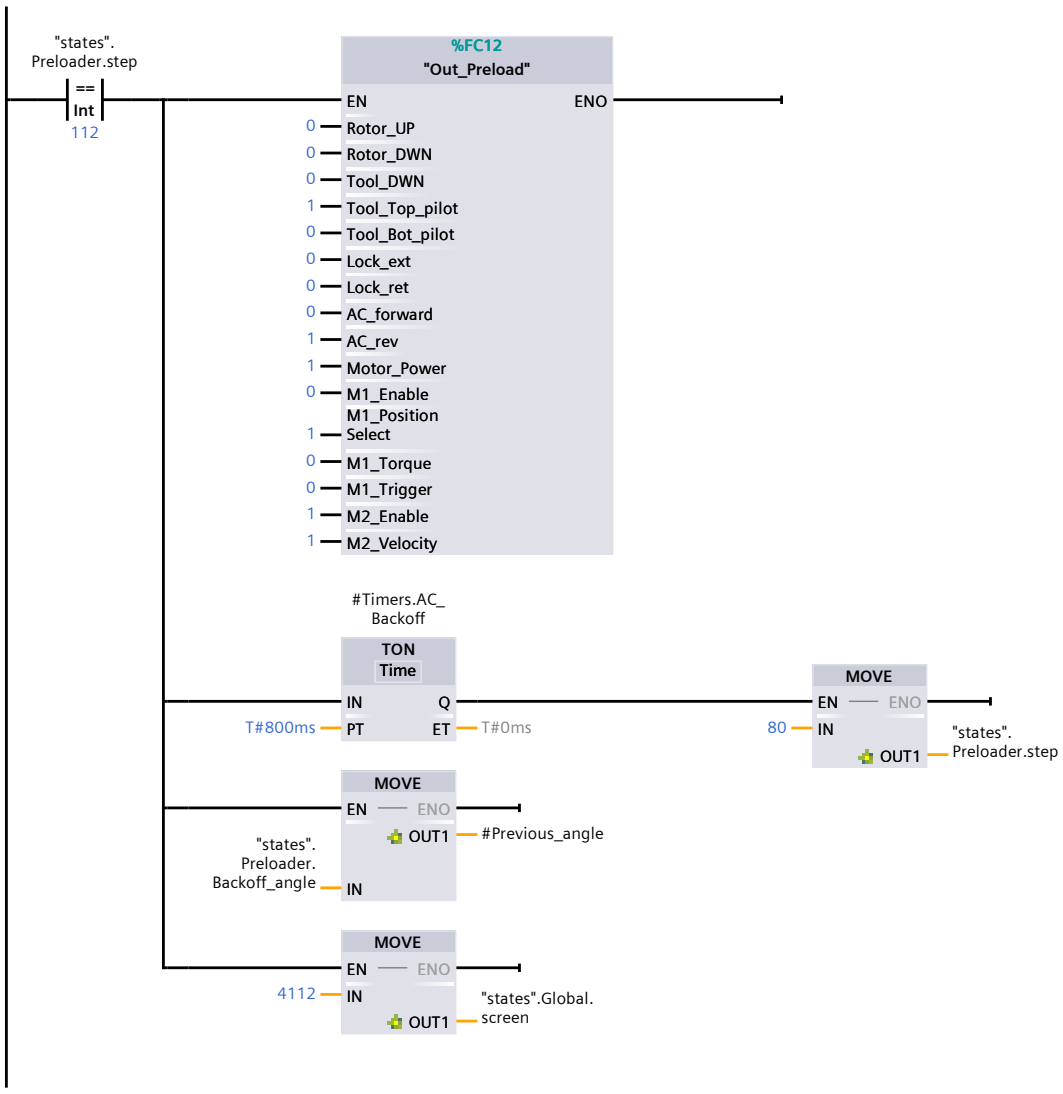
Network 18: tighten second nut



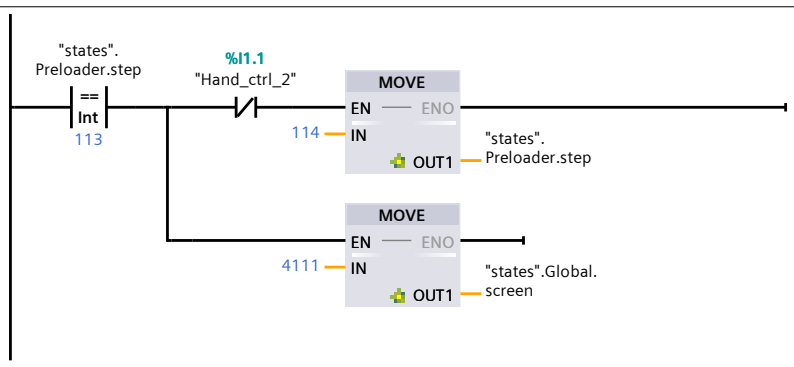
Network 19: release hand controls



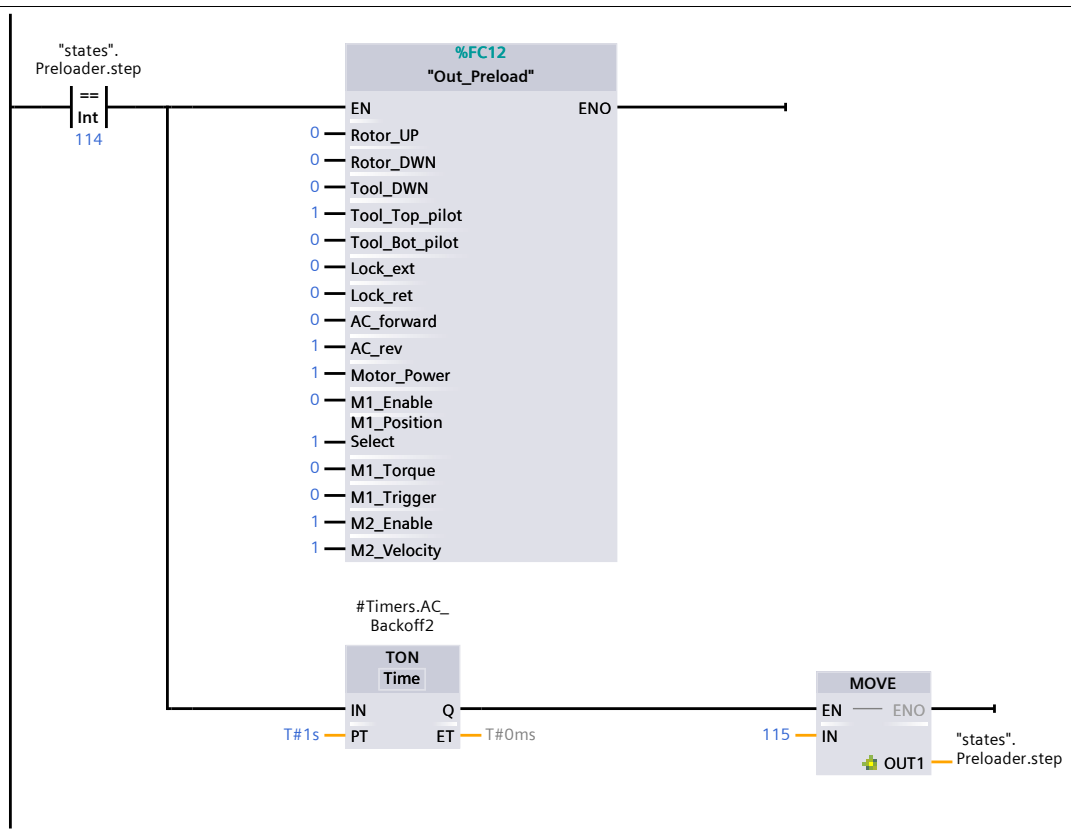
Network 20: prevailing torque out of range, backoff to adjust



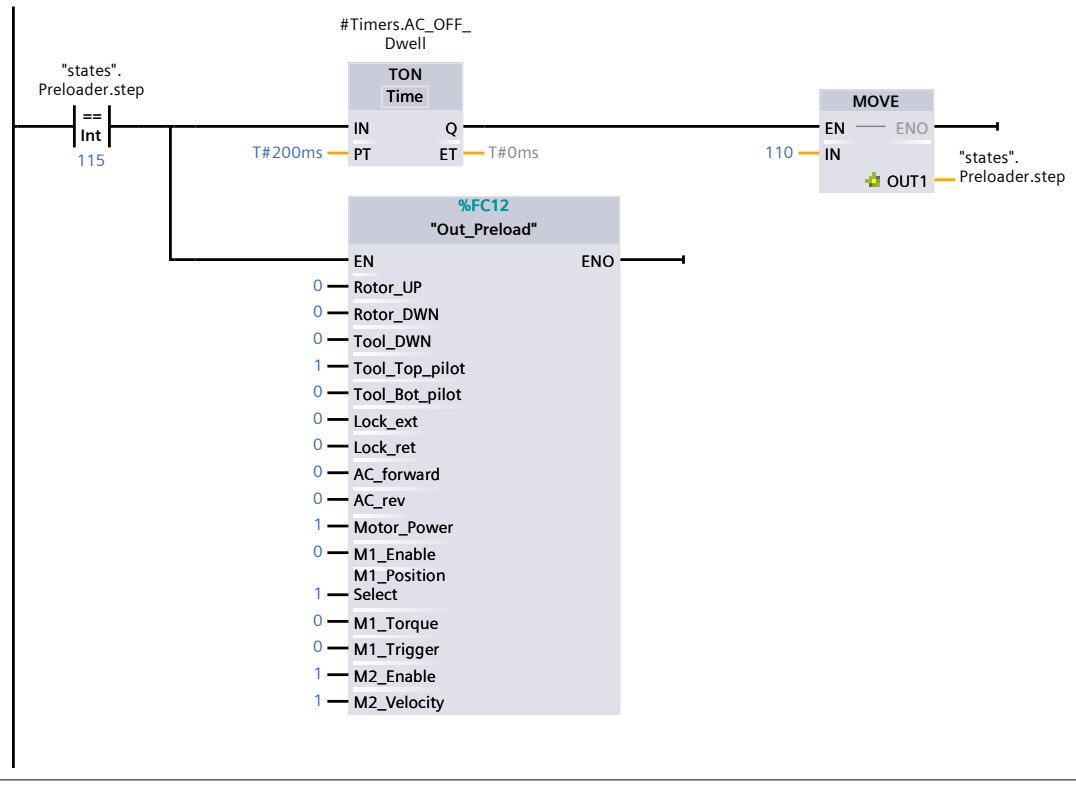
Network 21: release hand controls



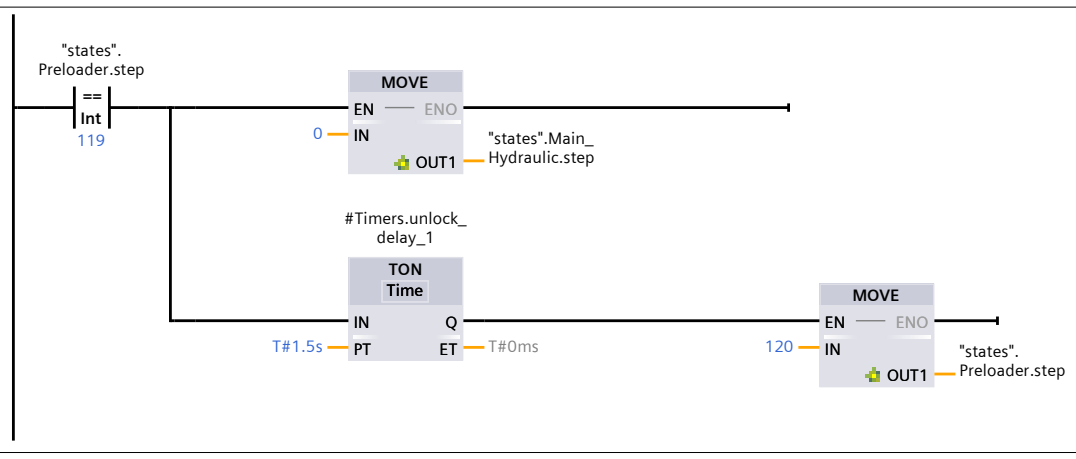
Network 22: AC error, backoff to retry tightening



Network 23: AC off dwell

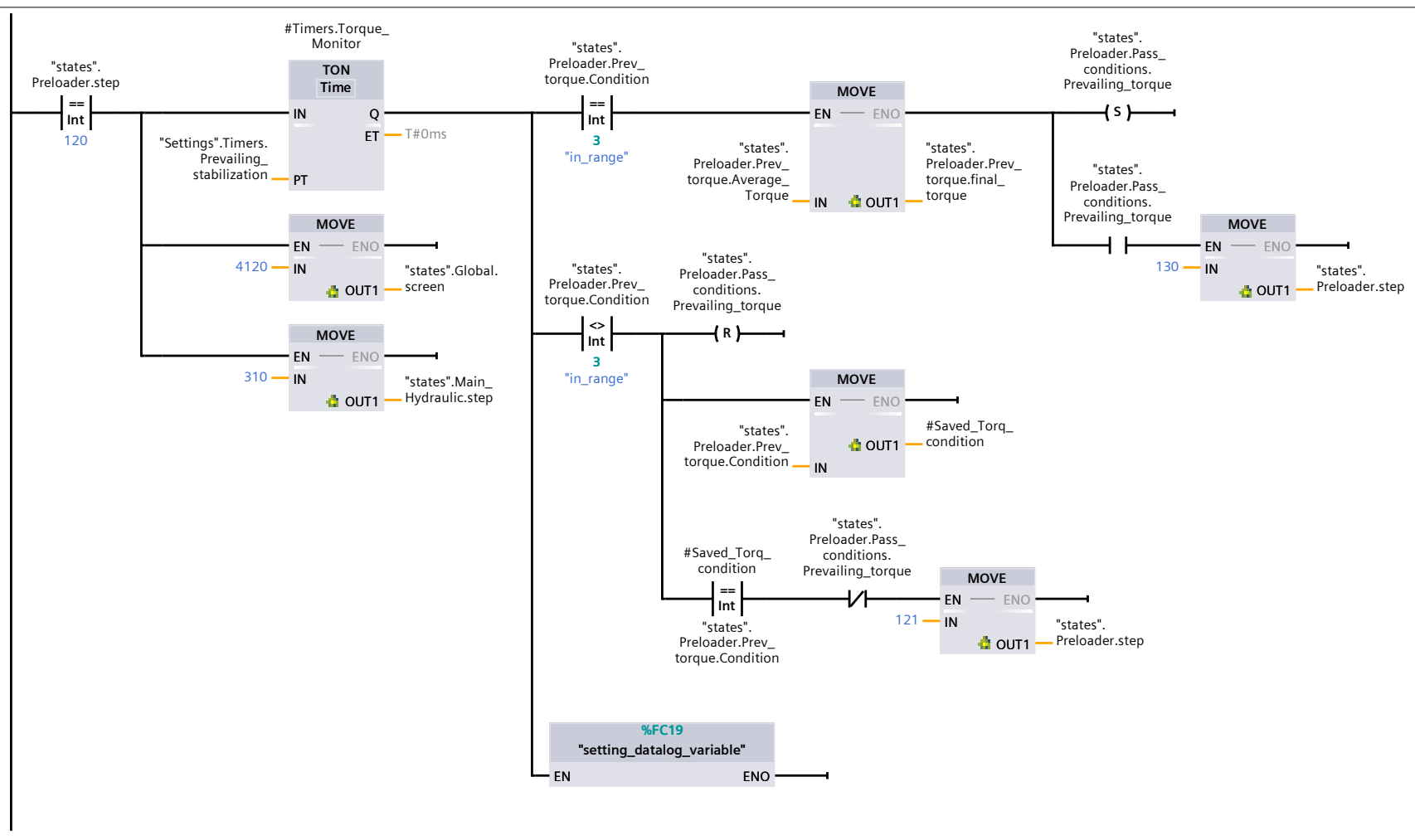


Network 24: Zero Hyd. step

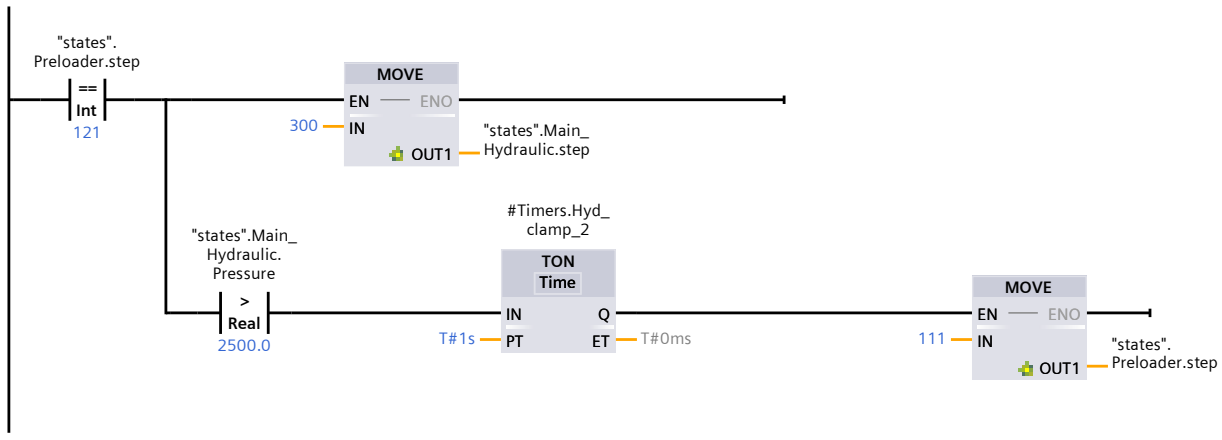


Network 25: Monitor prevailing torque. set up datalogging variable

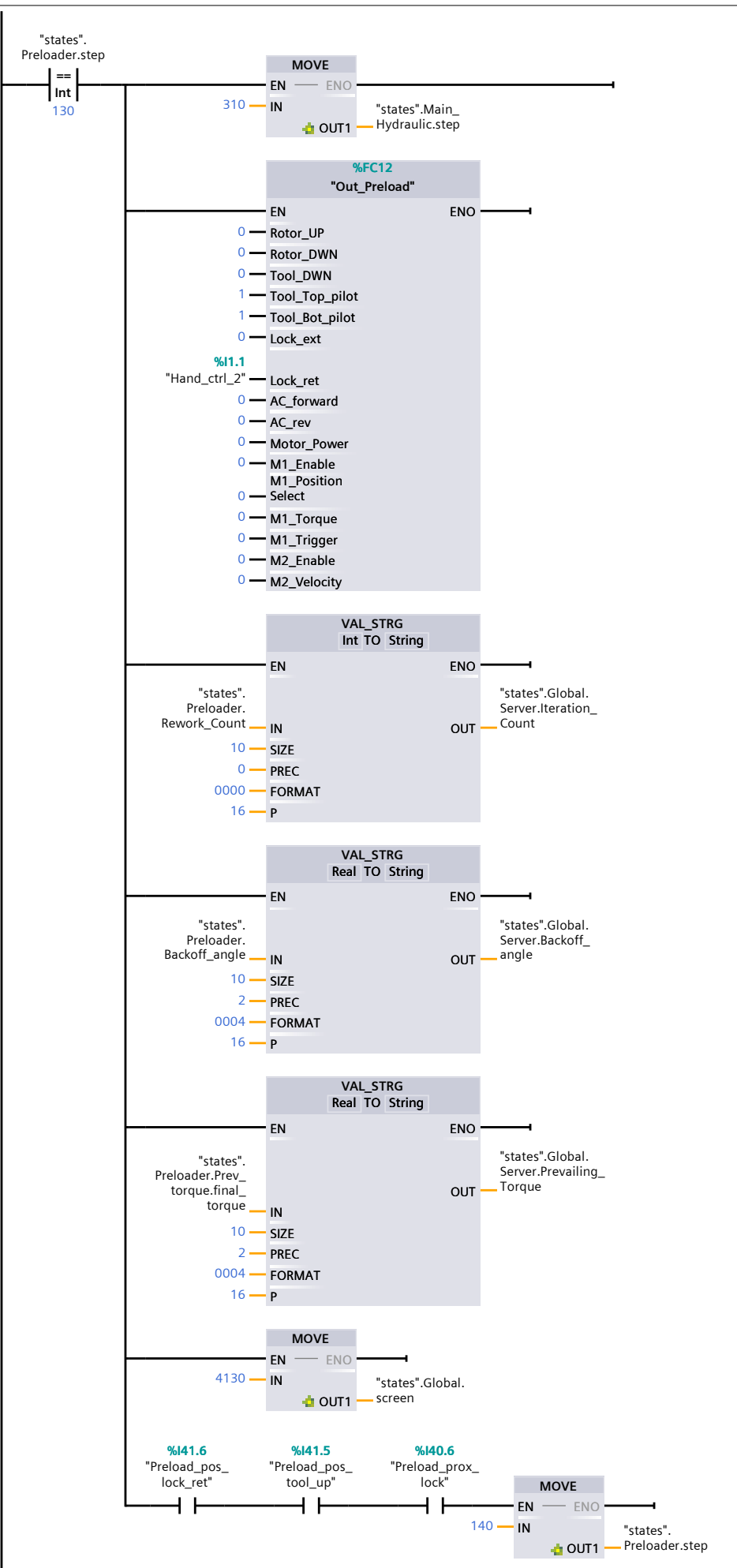
allow for average value to stabalize, minimum one full rotation of thrust race
set values to string for datalogging



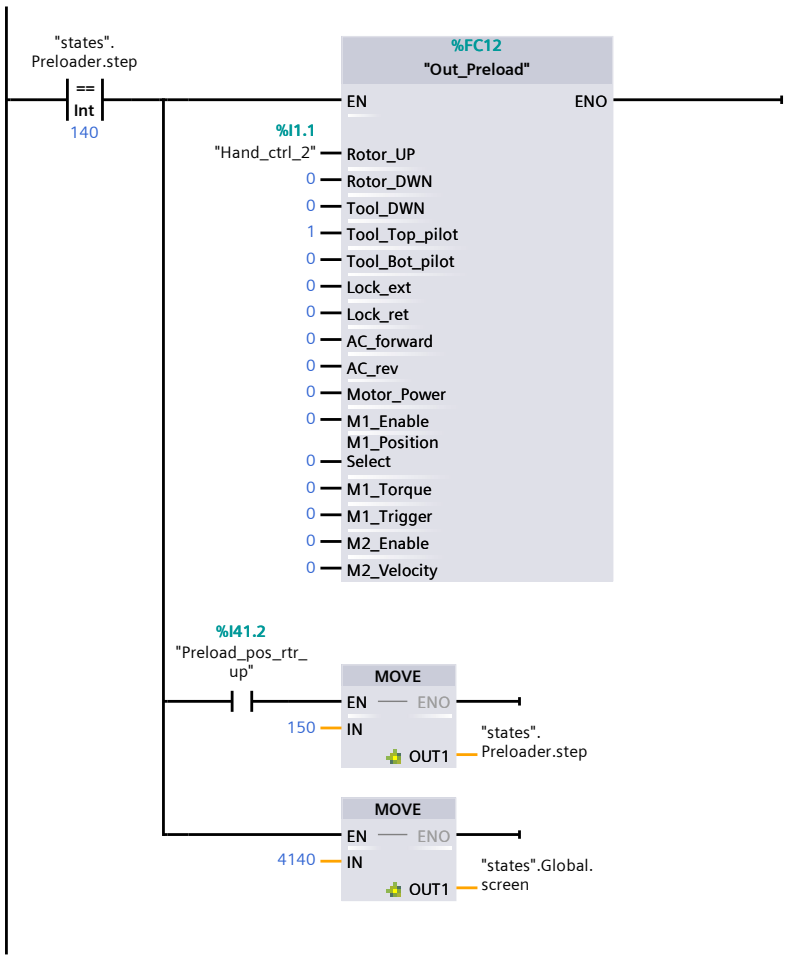
Network 26: clamp rotor for loosening second nut



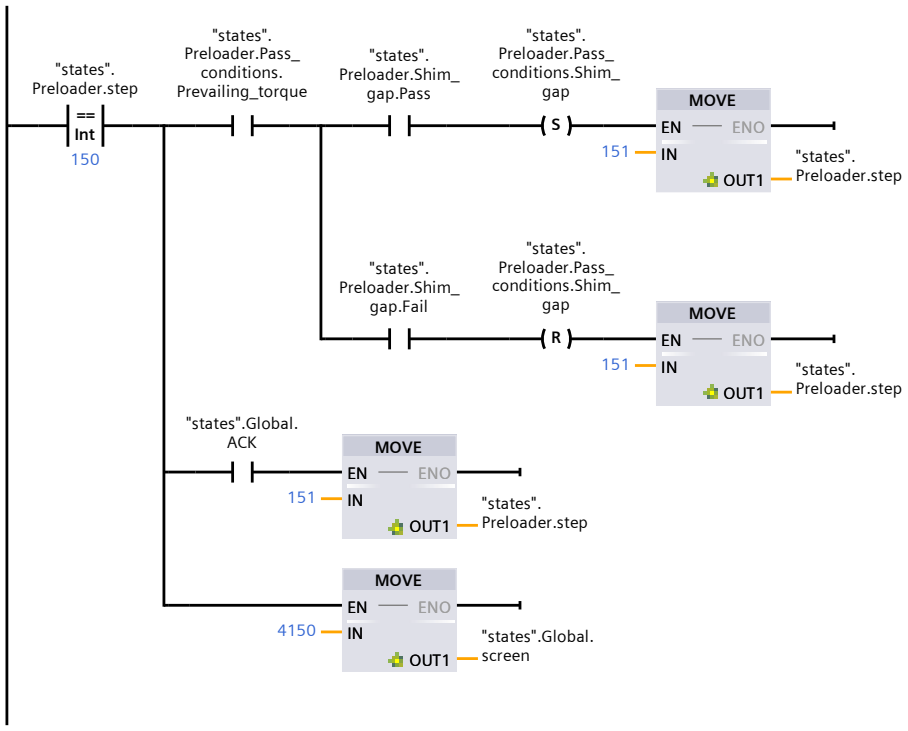
Network 27: unlock - convert values to string for server



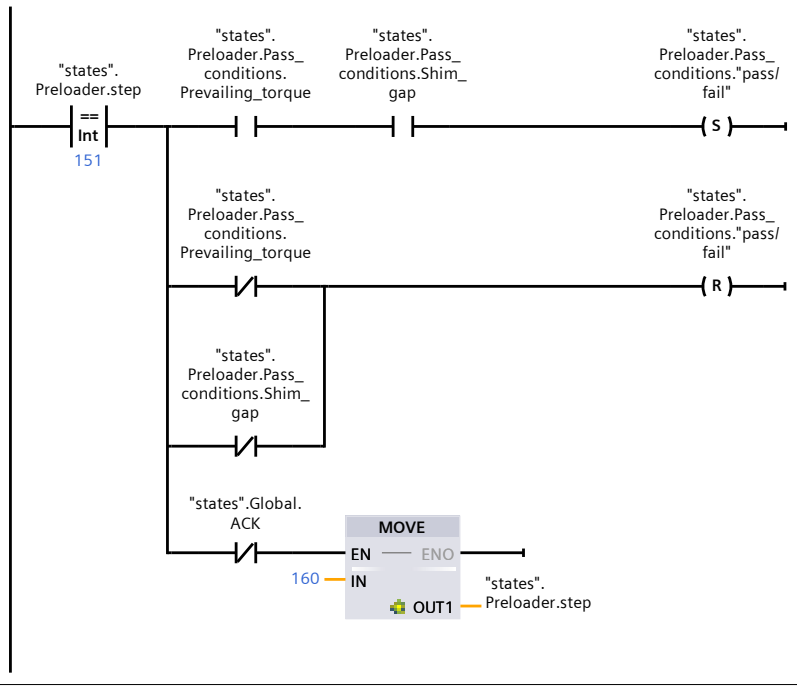
Network 28: lift rotor



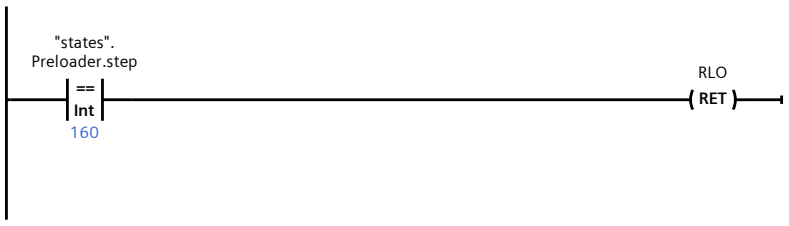
Network 29: Remove Rotor (check shim gap)



Network 30:



Network 31: END


"states".
Preloader.step
==
Int
160
RLO
RET