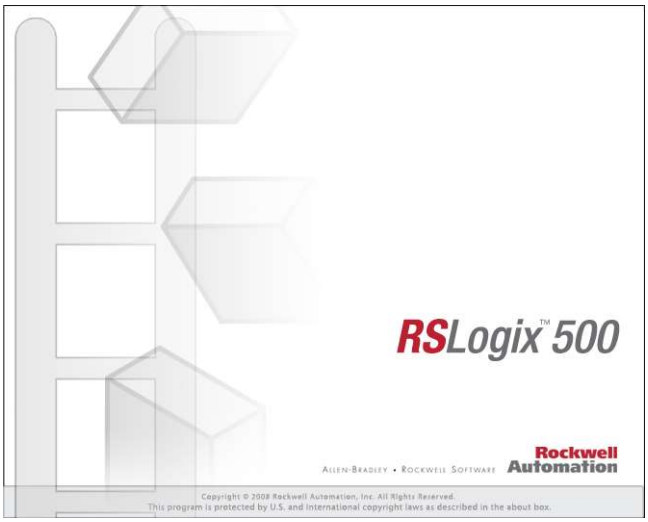
RSLogix Micro Project Report



Processor Information

Processor Type: Bul.1763 MicroLogix 1100 Series B

Processor Name: UNTITLED

Total Memory Used: 188 Instruction Words Used - 56 Data Table Words Used

Total Memory Left: 6468 Instruction Words Left

Program Files: 5

Data Files: 9

Program ID: dbdb

I/O Configuration

0	Bul.1763	MicroLogix 1100 Series B
1		
2		
3		
4		

Channel Configuration

CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Edit Resource/Owner Timeout: 60
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Passthru Link ID: 1
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Write Protected: No
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Comms Servicing Selection: Yes
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Message Servicing Selection: Yes
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex 1st AWA Append Character: \d
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex 2nd AWA Append Character: \a

   Source ID: 1 (decimal)
   Baud: 19200
   Parity: NONE
   Control Line : No Handshaking
   Error Detection: CRC
   Embedded Responses: Auto Detect
   Duplicate Packet Detect: Yes
   ACK Timeout(x20 ms): 50
   NAK Retries: 3
   ENQ Retries: 3

CHANNEL 1 (SYSTEM) - Driver: Ethernet
   CHANNEL 1 (SYSTEM) - Driver: Ethernet Edit Resource/Owner Timeout: 60
   CHANNEL 1 (SYSTEM) - Driver: Ethernet Passthru Link ID: 1
   CHANNEL 1 (SYSTEM) - Driver: Ethernet Write Protected: No
   CHANNEL 1 (SYSTEM) - Driver: Ethernet Comms Servicing Selection: Yes
   CHANNEL 1 (SYSTEM) - Driver: Ethernet Message Servicing Selection: Yes

   Hardware Address: 00:00:00:00:00:00
   IP Address: 0.0.0.0
   Subnet Mask: 0.0.0.0
   Gateway Address: 0.0.0.0
   Msg Connection Timeout (x 1mS): 15000
   Msg Reply Timeout (x mS): 3000
   Inactivity Timeout (x Min): 30
   Bootp Enable: Yes
   Dhcp Enable No
   SNMP Enable: No
   HTTP Enable: Yes
   Auto Negotiate Enable: Yes
   Port Speed Enable: 10/100 Mbps Full Duplex/Half Duplex
   Contact:
   Location:

Program File List

Name	Number	Type	Rungs	Debug	Bytes
[SYSTEM]	0	SYS	0	No	0
	1	SYS	0	No	0
MAIN	2	LADDER	3	No	21
DIGITAL IO	3	LADDER	8	No	115
CONTROLS	4	LADDER	14	No	382

Data File List

Name	Number	Type	Scope	Debug	Words	Elements	Last
OUTPUT	0	O	Global	No	12	4	O:3
INPUT	1	I	Global	No	18	6	I:5
STATUS	2	S	Global	No	0	66	S:65
BINARY	3	B	Global	No	2	2	B3:1
TIMER	4	T	Global	No	15	5	T4:4
COUNTER	5	C	Global	No	3	1	C5:0
CONTROL	6	R	Global	No	3	1	R6:0
INTEGER	7	N	Global	No	1	1	N7:0
FLOAT	8	F	Global	No	2	1	F8:0

PROJEKTBESCHREIBUNG.: In diesem Projekt geht um die automatische Nussabfüllmaschine. Die Anlage besteht aus einem Motor, einem Förderband, einem Näherungssensor, zwei Nusstrichter (Pekan- und Walnusstrichter) mti Zufuhrklappen, einem Farbsensor (erkennt rot und blau) und einem Ultraschallfüllstandsensor. Die Reihenfolge der Steuerlogik ist wie folgt:
1) Auf dem Förderband liegen die abzufüllenden Kartonverpackungen. Der Motor geht an und somit bewegt den Förderband bis der Näherungssensor die Kartonverpackung erkennt.
2) Auf der Kartonverpackung ist jeweils eine rote oder blaue Etikettierung.Der Farbsensor erkennt die Farbe und anhand dieser Farbe (rot für Pekannüsse und blau für Walnüsse) wird jeweiligen Zufuhrklappen zur Befüllung geöffnet.
3) Der Ultraschallfüllstandsensor misst ständig ,ob die Verpackung voll ist. Falls ja, die Zufuhrklappe ist geschlossen und der Förderband bewegt die befüllte Verpackung weiter.

DIGITAL IO

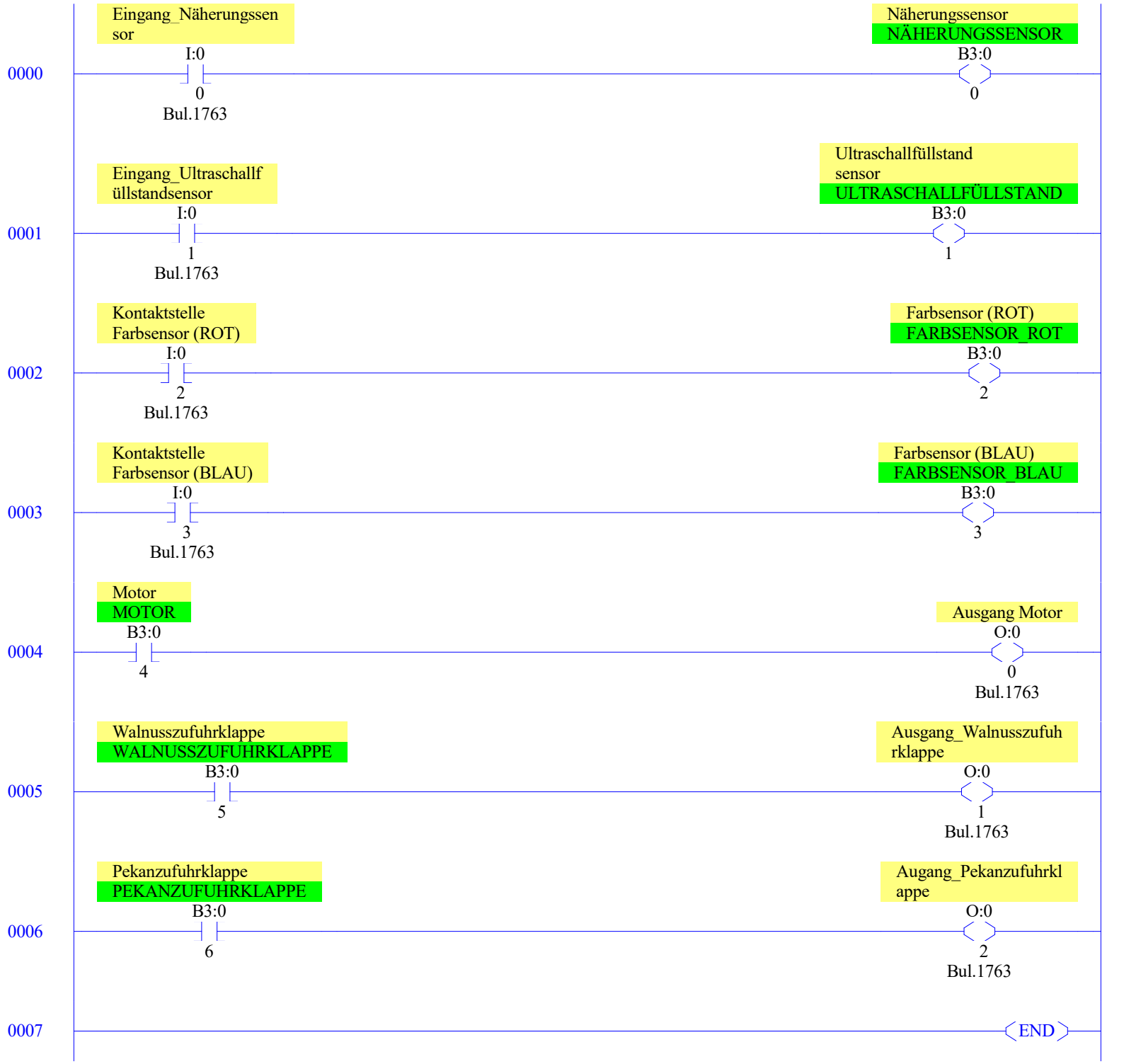
0000 JSR
Jump To Subroutine
SBR File Number U:3

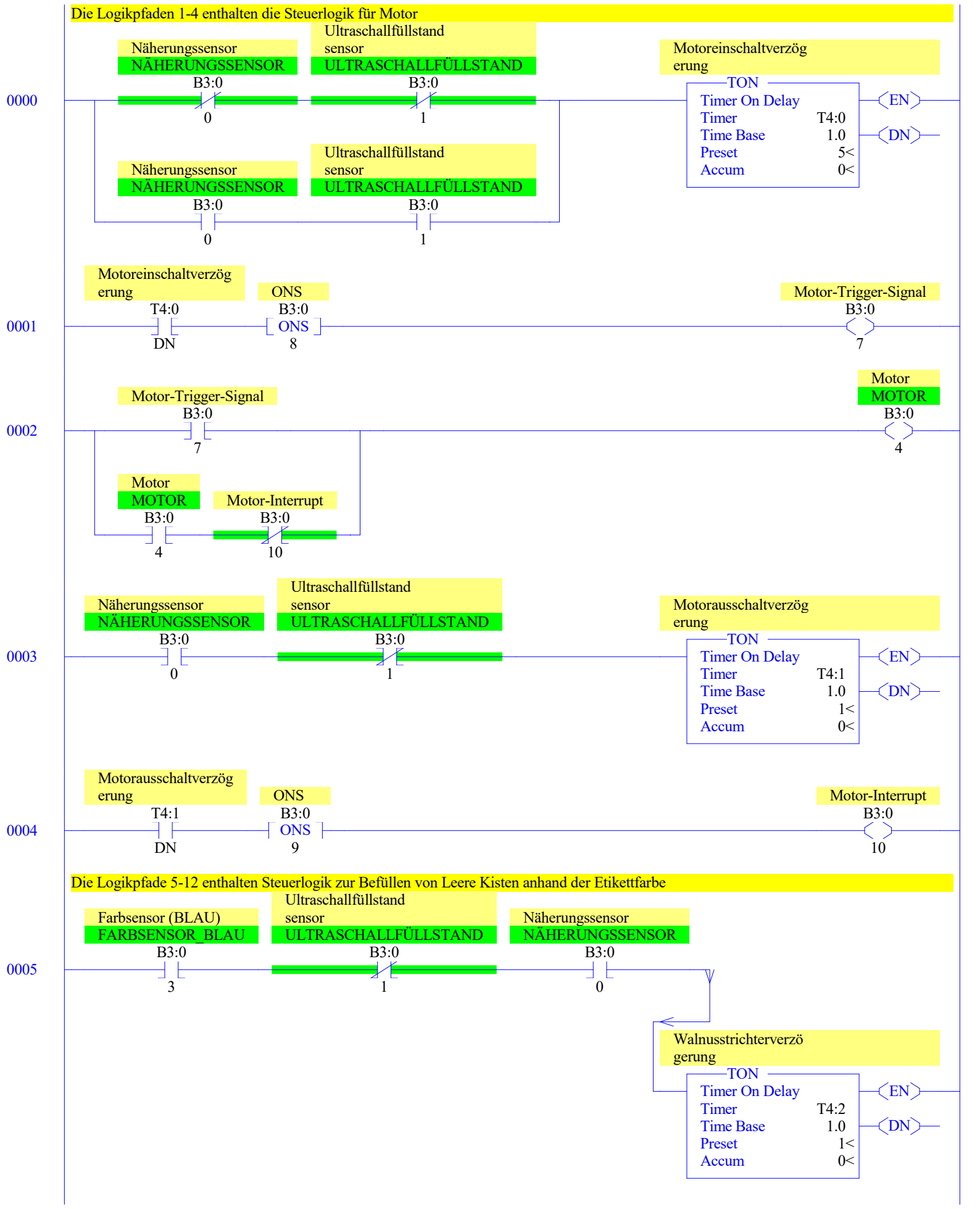
CONTROLS

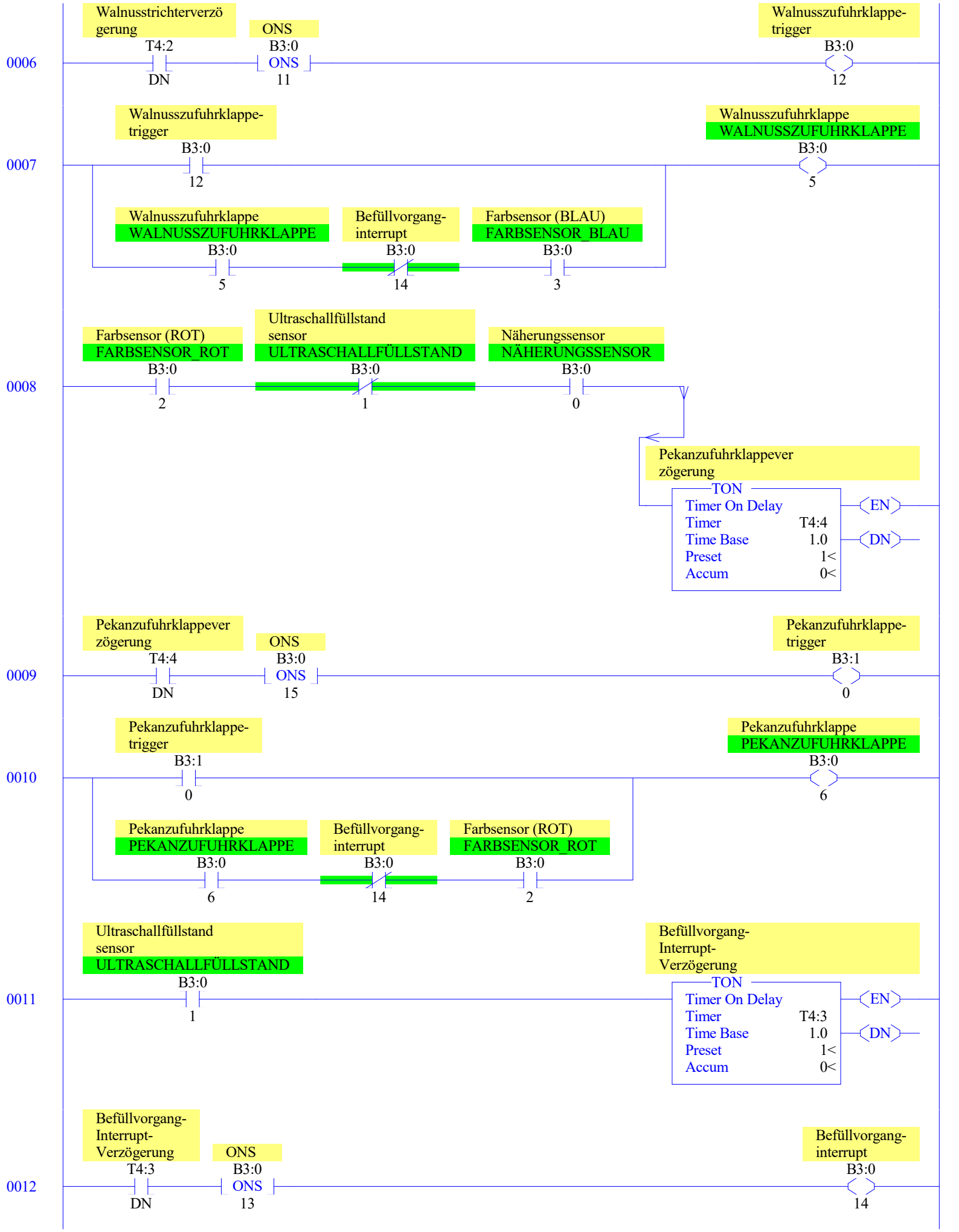
0001 JSR
Jump To Subroutine
SBR File Number U:4

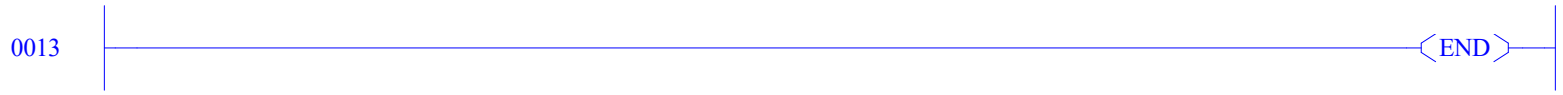
0002 END

LAD 3 - DIGITAL IO --- Total Rungs in File = 8




Die Logikpfaden 1-4 enthalten die Steuerlogik für Motor
0000
Näherungssensor
NÄHERUNGSSENSOR
B3:0
0
Ultraschallfüllstand sensor
ULTRASCHALLFÜLLSTAND
B3:0
1
Motoreinschaltverzögerung
TON
Timer On Delay
Timer T4:0
Time Base 1.0
Preset 5<
Accum 0<
EN
DN
0001
Motoreinschaltverzögerung
T4:0
DN
ONS
B3:0
ONS
8
Motor-Trigger-Signal
B3:0
7
0002
Motor-Trigger-Signal
B3:0
7
Motor
MOTOR
B3:0
4
Motor-Interrupt
B3:0
10
0003
Näherungssensor
NÄHERUNGSSENSOR
B3:0
0
Ultraschallfüllstand sensor
ULTRASCHALLFÜLLSTAND
B3:0
1
Motorausschaltverzögerung
TON
Timer On Delay
Timer T4:1
Time Base 1.0
Preset 1<
Accum 0<
EN
DN
0004
Motorausschaltverzögerung
T4:1
DN
ONS
B3:0
ONS
9
Motor-Interrupt
B3:0
10
Die Logikpfade 5-12 enthalten Steuerlogik zur Befüllen von Leere Kisten anhand der Etikettfarbe
0005
Farbsensor (BLAU)
FARBSENSOR_BLAU
B3:0
3
Ultraschallfüllstand sensor
ULTRASCHALLFÜLLSTAND
B3:0
1
Näherungssensor
NÄHERUNGSSENSOR
B3:0
0
Walnusstrichterverzögerung
TON
Timer On Delay
Timer T4:2
Time Base 1.0
Preset 1<
Accum 0<
EN
DN


Walnusstrichterverzögerung
T4:2
DN
ONS
B3:0
ONS
11
Walnusszufuhrklappe-trigger
B3:0
12
0006
Walnusszufuhrklappe-trigger
B3:0
12
Walnusszufuhrklappe
WALNUSSZUFUHRKLAPPE
B3:0
5
0007
Walnusszufuhrklappe
WALNUSSZUFUHRKLAPPE
B3:0
5
Befüllvorgang-interrupt
B3:0
14
Farbsensor (BLAU)
FARBSENSOR_BLAU
B3:0
3
Farbsensor (ROT)
FARBSENSOR_ROT
B3:0
2
Ultraschallfüllstand sensor
ULTRASCHALLFÜLLSTAND
B3:0
1
Näherungssensor
NÄHERUNGSSENSOR
B3:0
0
0008
Pekanzufuhrklappeverzögerung
TON
Timer On Delay
Timer T4:4
Time Base 1.0
Preset 1<
Accum 0<
EN
DN
Pekanzufuhrklappeverzögerung
T4:4
DN
ONS
B3:0
ONS
15
Pekanzufuhrklappe-trigger
B3:1
0
0009
Pekanzufuhrklappe-trigger
B3:1
0
Pekanzufuhrklappe
PEKANZUFUHRKLAPPE
B3:0
6
0010
Pekanzufuhrklappe
PEKANZUFUHRKLAPPE
B3:0
6
Befüllvorgang-interrupt
B3:0
14
Farbsensor (ROT)
FARBSENSOR_ROT
B3:0
2
Ultraschallfüllstand sensor
ULTRASCHALLFÜLLSTAND
B3:0
1
Befüllvorgang-Interrupt-Verzögerung
TON
Timer On Delay
Timer T4:3
Time Base 1.0
Preset 1<
Accum 0<
EN
DN
0011
Befüllvorgang-Interrupt-Verzögerung
T4:3
DN
ONS
B3:0
ONS
13
Befüllvorgang-interrupt
B3:0
14
0012


0013
END

Data File O0 (bin) -- OUTPUT

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
O:0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
O:0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
O:0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
O:0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B

Data File I1 (bin) -- INPUT

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
I:0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
I:0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
I:0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
I:0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
I:0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B-Analo
I:0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B-Analo

Main

Processor Mode S:1/0 - S:1/4 = Remote Program Mode
On Power up Go To Run (Mode Behavior) S:1/12 = 0
First Pass S:1/15 = No
Free Running Clock S:4 = 0000-0000-0000-0000

Proc

OS Catalog Number S:57 = 1100
OS Series S:58 = A
OS FRS S:59 =
Processor Catalog Number S:60 =
Processor Series S:61 = A
Processor FRN S:62 =
User Program Type S:63 = 8001h
Compiler Revision Number S:64 =

Scan Times

Maximum (x10 ms) S:22 = 0
Watchdog (x10 ms) S:3 (high byte) = 10
Last 100 uSec Scan Time S:35 = 0
Scan Toggle Bit S:33/9 = 0

Math

Math Overflow Selected S:2/14 = 0
Overflow Trap S:5/0 = 0
Carry S:0/0 = 0
Overflow S:0/1 = 0
Zero Bit S:0/2 = 0
Sign Bit S:0/3 = 0
Math Register (lo word) S:13 = 0
Math Register (high word) S:14-S:13 = 0
Math Register (32 Bit) S:14-S:13 = 0

Chan 0

Processor Mode S:1/0- S:1/4 = Remote Program Mode
Node Address S:15 (low byte) = 0
Baud Rate S:15 (high byte) = ?
Channel Mode S:33/3 = 0
Comms Active S:33/4 = 0
Incoming Cmd Pending S:33/0 = 0
Msg Reply Pending S:33/1 = 0
Outgoing Msg Cmd Pending S:33/2 = 0

Debug

Suspend Code S:7 = 0
Suspend File S:8 = 0

Errors

Fault Override At Power Up S:1/8 = 0
Startup Protection Fault S:1/9 = 0
Major Error Halt S:1/13 = 0
Overflow Trap S:5/0 = 0
Control Register Error S:5/2 = 0
Major Error Executing User Fault Rtn. S:5/3 = 0
Battery Low S:5/11 = 0
Input Filter Selection Modified S:5/13 = 0
ASCII String Manipulation error S:5/15 = 0
Fault Routine S:29 = 0
Major Error S:6 = 0h
Error Description:

Protection

Deny Future Access S:1/14 = No
Data File Overwrite Protection Lost S:36/10 = False

Mem Module

Memory Module Loaded On Boot S:5/8 = 0
Password Mismatch S:5/9 = 0
Load Memory Module On Memory Error S:1/10 = 0
Load Memory Module Always S:1/11 = 0
On Power up Go To Run (Mode Behavior) S:1/12 = 0
Program Compare S:2/9 = 0
Data File Overwrite Protection Lost S:36/10 = 0

Forces

Forces Enabled S:1/5 = Yes
Forces Installed S:1/6 = No

Data File B3 (bin) -- BINARY

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	(Symbol)	Description
B3:0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
B3:1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Data File T4 -- TIMER

Offset	EN	TT	DN	BASE	PRE	ACC	(Symbol) Description
T4:0	0	0	0	1.0 sec	5	0	Motoreinschaltverzög erung
T4:1	0	0	0	1.0 sec	1	0	Motorausschaltverzög erung
T4:2	0	0	0	1.0 sec	1	0	Walnusstrichterverzö gerung
T4:3	0	0	0	1.0 sec	1	0	Befüllvorgang- Interrupt- Verzögerung
T4:4	0	0	0	1.0 sec	1	0	Pekanzufuhrklappever zögerung

Data File C5 -- COUNTER

Offset	CU	CD	DN	OV	UN	UA	PRE	ACC	(Symbol)	Description
C5:0	0	0	0	0	0	0	0	0		

Data File R6 -- CONTROL

Offset	EN	EU	DN	EM	ER	UL	IN	FD	LEN	POS	(Symbol)	Description
R6:0	0	0	0	0	0	0	0	0	0	0		

Data File N7 (dec) -- INTEGER

Offset	0	1	2	3	4	5	6	7	8	9
N7:0	0									

Data File F8 -- FLOAT

Offset	0	1	2	3	4
F8:0	0				

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code
B3:0/0	NÄHERUNGSSENSOR	Global	Näherungssensor		
B3:0/1	ULTRASCHALLFÜLLSTAND	Global	Ultraschallfüllstand sensor		
B3:0/2	FARBSENSOR_ROT	Global	Farbsensor (ROT)		
B3:0/3	FARBSENSOR_BLAU	Global	Farbsensor (BLAU)		
B3:0/4	MOTOR	Global	Motor		
B3:0/5	WALNUSSZUFUHRKLAPPE	Global	Walnusszufuhrklappe		
B3:0/6	PEKANZUFUHRKLAPPE	Global	Pekanzufuhrklappe		
B3:0/7			Motor-Trigger-Signal		
B3:0/8			ONS		
B3:0/9			ONS		
B3:0/10			Motor-Interrupt		
B3:0/11			ONS		
B3:0/12			Walnusszufuhrklappe- trigger		
B3:0/13			ONS		
B3:0/14			Befüllvorgang- interrupt		
B3:0/15			ONS		
B3:1/0			Pekanzufuhrklappe- trigger		
I:0/0			Eingang_Näherungssen sor		
I:0/1			Eingang_Ultraschallf üllstandsensor		
I:0/2			Kontaktstelle Farbsensor (ROT)		
I:0/3			Kontaktstelle Farbsensor (BLAU)		
O:0/0			Ausgang Motor		
O:0/1			Ausgang_Walnusszufuh rklappe		
O:0/2			Augang_Pekanzufuhrkl appe		
S:0			Arithmetic Flags		
S:0/0			Processor Arithmetic Carry Flag		
S:0/1			Processor Arithmetic Underflow/ Overflow Flag		
S:0/2			Processor Arithmetic Zero Flag		
S:0/3			Processor Arithmetic Sign Flag		
S:1			Processor Mode Status/ Control		
S:1/0			Processor Mode Bit 0		
S:1/1			Processor Mode Bit 1		
S:1/2			Processor Mode Bit 2		
S:1/3			Processor Mode Bit 3		
S:1/4			Processor Mode Bit 4		
S:1/5			Forces Enabled		
S:1/6			Forces Present		
S:1/7			Comms Active		
S:1/8			Fault Override at Powerup		
S:1/9			Startup Protection Fault		
S:1/10			Load Memory Module on Memory Error		
S:1/11			Load Memory Module Always		
S:1/12			Load Memory Module and RUN		
S:1/13			Major Error Halted		
S:1/14			Access Denied		
S:1/15			First Pass		
S:2/0			STI Pending		
S:2/1			STI Enabled		
S:2/2			STI Executing		
S:2/3			Index Addressing File Range		
S:2/4			Saved with Debug Single Step		
S:2/5			DH-485 Incoming Command Pending		
S:2/6			DH-485 Message Reply Pending		
S:2/7			DH-485 Outgoing Message Command Pending		
S:2/15			Comms Servicing Selection		
S:3			Current Scan Time/ Watchdog Scan Time		
S:4			Time Base		
S:5/0			Overflow Trap		
S:5/2			Control Register Error		
S:5/3			Major Err Detected Executing UserFault Routine		
S:5/4			M0-M1 Referenced on Disabled Slot		
S:5/8			Memory Module Boot		
S:5/9			Memory Module Password Mismatch		
S:5/10			STI Overflow		
S:5/11			Battery Low		
S:6			Major Error Fault Code		
S:7			Suspend Code		
S:8			Suspend File		
S:9			Active Nodes		
S:10			Active Nodes		
S:11			I/O Slot Enables		
S:12			I/O Slot Enables		
S:13			Math Register		
S:14			Math Register		
S:15			Node Address/ Baud Rate		
S:16			Debug Single Step Rung		
S:17			Debug Single Step File		
S:18			Debug Single Step Breakpoint Rung		
S:19			Debug Single Step Breakpoint File		
S:20			Debug Fault/ Powerdown Rung		
S:21			Debug Fault/ Powerdown File		
S:22			Maximum Observed Scan Time		
S:23			Average Scan Time		
S:24			Index Register		
S:25			I/O Interrupt Pending		
S:26			I/O Interrupt Pending		
S:27			I/O Interrupt Enabled		
S:28			I/O Interrupt Enabled		
S:29			User Fault Routine File Number		
S:30			STI Setpoint		

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code
S:31			STI File Number		
S:32			I/O Interrupt Executing		
S:33			Extended Proc Status Control Word		
S:33/0			Incoming Command Pending		
S:33/1			Message Reply Pending		
S:33/2			Outgoing Message Command Pending		
S:33/3			Selection Status User/DF1		
S:33/4			Communicat Active		
S:33/5			Communicat Servicing Selection		
S:33/6			Message Servicing Selection Channel 0		
S:33/7			Message Servicing Selection Channel 1		
S:33/8			Interrupt Latency Control Flag		
S:33/9			Scan Toggle Flag		
S:33/10			Discrete Input Interrupt Reconfigur Flag		
S:33/11			Online Edit Status		
S:33/12			Online Edit Status		
S:33/13			Scan Time Timebase Selection		
S:33/14			DTR Control Bit		
S:33/15			DTR Force Bit		
S:34			Pass-thru Disabled		
S:34/0			Pass-Thru Disabled Flag		
S:34/1			DH+ Active Node Table Enable Flag		
S:34/2			Floating Point Math Flag Disable,Fl		
S:35			Last 1 ms Scan Time		
S:36			Extended Minor Error Bits		
S:36/8			DII Lost		
S:36/9			STI Lost		
S:36/10			Memory Module Data File Overwrite Protection		
S:37			Clock Calendar Year		
S:38			Clock Calendar Month		
S:39			Clock Calendar Day		
S:40			Clock Calendar Hours		
S:41			Clock Calendar Minutes		
S:42			Clock Calendar Seconds		
S:43			STI Interrupt Time		
S:44			I/O Event Interrupt Time		
S:45			DII Interrupt Time		
S:46			Discrete Input Interrupt- File Number		
S:47			Discrete Input Interrupt- Slot Number		
S:48			Discrete Input Interrupt- Bit Mask		
S:49			Discrete Input Interrupt- Compare Value		
S:50			Processor Catalog Number		
S:51			Discrete Input Interrupt- Return Number		
S:52			Discrete Input Interrupt- Accumulat		
S:53			Reserved/ Clock Calendar Day of the Week		
S:55			Last DII Scan Time		
S:56			Maximum Observed DII Scan Time		
S:57			Operating System Catalog Number		
S:58			Operating System Series		
S:59			Operating System FRN		
S:61			Processor Series		
S:62			Processor Revision		
S:63			User Program Type		
S:64			User Program Functional Index		
S:65			User RAM Size		
S:66			Flash EEPROM Size		
S:67			Channel 0 Active Nodes		
S:68			Channel 0 Active Nodes		
S:69			Channel 0 Active Nodes		
S:70			Channel 0 Active Nodes		
S:71			Channel 0 Active Nodes		
S:72			Channel 0 Active Nodes		
S:73			Channel 0 Active Nodes		
S:74			Channel 0 Active Nodes		
S:75			Channel 0 Active Nodes		
S:76			Channel 0 Active Nodes		
S:77			Channel 0 Active Nodes		
S:78			Channel 0 Active Nodes		
S:79			Channel 0 Active Nodes		
S:80			Channel 0 Active Nodes		
S:81			Channel 0 Active Nodes		
S:82			Channel 0 Active Nodes		
S:83			DH+ Active Nodes		
S:84			DH+ Active Nodes		
S:85			DH+ Active Nodes		
S:86			DH+ Active Nodes		
T4:0			Motoreinschaltverzög erung		
T4:1			Motorausschaltverzög erung		
T4:2			Walnusstrichterverzö gerung		
T4:2/DN					
T4:3			Befüllvorgang- Interrupt- Verzögerung		
T4:3/DN					
T4:4			Pekanzufuhrklappever zögerung		
T4:4/DN					
U:3			DIGITAL IO		
U:4			CONTROLS		

Instruction Comment Database

Address	Instruction	Description

Symbol Group Database

Group_Name Description