0 1 2 3 4 5 6 7 8 9

Table of contents

Higher-level function	Mounting location	Page	Page description	supplementary page field	Date	Edited by
		1	Title page / cover sheet		05.07.2016	EPL
		2	Material regulations		23.06.2016	EPL
		3	Safety instructions		23.06.2016	EPL
		1	Table of contents : &AAA1/1 - &EMA3/1.7		06.07.2016	EPL
		1.1	Table of contents: &EMA3/1.8 - +A2&APB/1.7		06.07.2016	EPL
		1.2	Table of contents: +A2&APB/1.8 - +A3&APB/1		06.07.2016	EPL
		1.3	Table of contents: +A3&EMB1/1 - +C1&EMB2/2		06.07.2016	EPL
		1.4	Table of contents: +C1&EMB2/3 - +C1.A2&APB/1.1		06.07.2016	EPL
		1.5	Table of contents: +C1.A2&APB/1.2 - =A03+C1.A2&MFS11/1		06.07.2016	EPL
		1.6	Table of contents : =A05+A1&EFS1/1 - =A07+C1.A1&EFA1/1		06.07.2016	EPL
		1.7	Table of contents : =A07+C1.A1&EFA1/2 - =C01+A2&EFS1/2		06.07.2016	EPL
		1.8	Table of contents: =C04+C1&EFS1/1 - =D01+A2&EFS1/2		06.07.2016	EPL
		1	Structure identifier overview		06.07.2016	EPL
		1.1	Structure identifier overview		05.07.2016	EPL
		2	Mounting locations		05.07.2016	EPL
		1	Plant overview Profinet		06.07.2016	EPL
		1	Pneumatics enclosure		06.07.2016	EPL
		1	Summarized parts list: FES.132857 - FES.153166		05.07.2016	EPL
		1	Device tag list : -XL10XM15		05.07.2016	EPL
		1.1	Device tag list : -XM16XM16		05.07.2016	EPL
		1	Connection list		05.07.2016	EPL
		1.1	Connection list		05.07.2016	EPL
		1.2	Connection list		05.07.2016	EPL
		1.3	Connection list		05.07.2016	EPL
		1.4	Connection list		05.07.2016	EPL
		1.5	Connection list		05.07.2016	EPL
		1.6	Connection list		05.07.2016	EPL
		1.7	Connection list		06.07.2016	EPL

&AAB1

Table of contents

1.1

ligher-level function	Mounting location	Page	Page description	supplementary page field	Date	Edited b
		1.8	Connection list		05.07.2016	EPL
		1.9	Connection list		05.07.2016	EPL
		1	Model view Layout space 3 Model view Layout space 4		06.07.2016	EPL
		2			06.07.2016	EPL
		3	Model view Layout space 5		06.07.2016	EPL
	A1	1	Summarized parts list: RIT.8884500 - SEW.MC07B0015-5A3-4-00		05.07.2016	EPL
	A1	1	Device tag list : =+A1-U13 - +A1-XD2		05.07.2016	EPL
	A1	1.1	Device tag list: +A1-XD2 - +A1-XD4		05.07.2016	EPL
A1 A1 A1		1.2	Device tag list: +A1-XD4 - +A1-XD5		05.07.2016	EPL
		1.3	Device tag list: +A1-XD5 - =A05+A1-FC3		05.07.2016	EPL
		1.4	Device tag list : =A05+A1-FC4 - =D01+A1-QA2		05.07.2016	EPL
A1 A1 A1 A1 A1 A1	A1	1	Terminal-strip overview : +A1-XD1 - +A1-XD5		05.07.2016	EPL
	A1	1	Terminal diagram +A1-XD1		06.07.2016	EPL
	A1	2	Terminal diagram +A1-XD2		06.07.2016	EPL
	A1	3	Terminal diagram +A1-XD3		06.07.2016	EPL
	4	Terminal diagram +A1-XD4		06.07.2016	EPL	
	A1 5 Terminal diagram +A1-XD5 A1 5.1 Terminal diagram +A1-XD5			23.06.2016	EPL	
			23.06.2016	EPL		
A2 1		1	Summarized parts list: RIT.8084500 - PXC.2861250		05.07.2016	EPL
A2 A2 A2 A2 A2 A2 A2	A2	1.1	Summarized parts list: PXC.2861344 - PXC.2403107		05.07.2016	EPL
	A2	1	Device tag list: =+A2-U25 - +A2-XD1		05.07.2016	EPL
	A2	1.1	Device tag list: +A2-XD1 - +A2-XD3		05.07.2016	EPL
	A2	1.2	Device tag list: +A2-XD3 - +A2-XD5		05.07.2016	EPL
	A2	1.3	Device tag list: +A2-XD5 - +A2-XD5		05.07.2016	EPL
	A2	1.4	Device tag list: +A2-XD5 - +A2-XD5		05.07.2016	EPL
A2	1.5	Device tag list: +A2-XD6 - +A2-XD8		05.07.2016	EPL	
	A2	1.6	Device tag list: +A2-XD8 - +A2-XD9		05.07.2016	EPL
	A2	1.7	Device tag list: +A2-XD9 - +A2-XD9			EPL

1.2

Modification

Date

Name

Creator

Grinding machine

Project name [ESS]_Sample_Project

Job number Approved by

EPLAN Software & Service GmbH & Co. KG

Table of contents : &El 7 7 Page 17 Page 18 Pa

EPL

Table of contents

Table of contents

Higher-level function Edited by Mounting location Page Page description supplementary page field Date **EPL** A2 1.8 Device tag list: +A2-XD9 - +A2-XD11 05.07.2016 A2 1.9 EPL Device tag list: +A2-XD11 - =A07+A2-FC9 05.07.2016 **EPL** A2 1.10 Device tag list : =A07+A2-FC10 - =A09+A2-PH105.07.2016 A2 1 Cable overview: +A2-WD1 - +A2-WD6 05.07.2016 A2 1 Cable diagram +A2-WD1 23.06.2016 A2 2 Cable diagram +A2-WD2 **EPL** 23.06.2016 3 Cable diagram +A2-WD3 **EPL** A2 23.06.2016 4 A2 Cable diagram +A2-WD5 23.06.2016 **EPL** A2 5 Cable diagram +A2-WD6 23.06.2016 EPL A2 5.1 Cable diagram +A2-WD6 23.06.2016 EPL A2 1 Terminal-strip overview: +A2-XD1 - +A2-XD11 **EPL** 05.07.2016 A2 EPL 1 Terminal diagram +A2-XD1 06.07.2016 2 A2 Terminal diagram +A2-XD2 06.07.2016 **EPL** 3 Terminal diagram +A2-XD3 **EPL** A2 06.07.2016 A2 4 Terminal diagram +A2-XD4 23.06.2016 EPL A2 5 Terminal diagram +A2-XD5 EPL 05.07.2016 A2 5.1 Terminal diagram +A2-XD5 23.06.2016 EPL A2 **EPL** 5.2 Terminal diagram +A2-XD5 23.06.2016 A2 6 Terminal diagram +A2-XD6 23.06.2016 **EPL** A2 7 Terminal diagram +A2-XD7 23.06.2016 **EPL** A2 8 EPL Terminal diagram +A2-XD8 23.06.2016 A2 **EPL** 8.1 Terminal diagram +A2-XD8 23.06.2016 A2 9 EPL Terminal diagram +A2-XD9 23.06.2016 EPL A2 9.1 23.06.2016 Terminal diagram +A2-XD9 A2 10 **EPL** Terminal diagram +A2-XD10 23.06.2016 A2 **EPL** 11 23.06.2016 Terminal diagram +A2-XD11 А3 **EPL** 1 Summarized parts list: LAPP.00100224 - PXC.2403107 05.07.2016 А3 1 **EPL** Device tag list: +A3-WD1 - =A09+A3-PH1 05.07.2016

EPLAN Software & Service

GmbH & Co. KG

Job number

Approved by

[ESS]_Sample_Project

Project name

Grinding machine

Modification

Date

Name

Table of contents: +A2&APB/1.8 - +A3&APB

Date 06-07-2016 Editor

EPL

Table of contents

&AAB1

1.3

Table of contents

Higher-level function Edited by Mounting location Page Page description supplementary page field Date **EPL** A3 1 Cable overview: +A3-WD1 - +A3-WD2 05.07.2016 А3 1 Cable diagram +A3-WD1 23.06.2016 **EPL** 2 EPL А3 Cable diagram +A3-WD2 23.06.2016 А3 1 Terminal-strip overview: +A3-XD1 - +A3-XD1 05.07.2016 EPL Α3 1 Terminal diagram +A3-XD1 23.06.2016 В1 EPL 1 Summarized parts list: FES.541333 - FES.193148 05.07.2016 **EPL** В1 1 Device tag list: +B1-WD1 - =B02+B1-RN6 05.07.2016 В1 1 Cable overview: +B1-WD1 - +B1-WD5 05.07.2016 EPL В1 1 Cable diagram +B1-WD1 24.06.2016 EPL В1 2 Cable diagram +B1-WD2 24.06.2016 EPL В1 3 **EPL** Cable diagram +B1-WD3 23.06.2016 В1 4 **EPL** Cable diagram +B1-WD4 23.06.2016 5 В1 Cable diagram +B1-WD5 23.06.2016 **EPL** B1.A1 1 Summarized parts list: RIT.1511510 - PXC.2703994 05.07.2016 **EPL** 1 **EPL** B1.A1 Device tag list : =+B1.A1-U62 - =A07+B1.A1-KF1 05.07.2016 1 **EPL** B1.A1 Cable overview: +B1.A1-WD1 - +B1.A1-WD3 05.07.2016 B1.A1 1 Cable diagram +B1.A1-WD1 23.06.2016 EPL 2 **EPL** B1.A1 Cable diagram:WD2 06.07.2016 B1.A1 3 Cable diagram +B1.A1-WD3 05.07.2016 **EPL** B1.A1 1 Terminal-strip overview: +B1.A1-XD1 - +B1.A1-XD3 05.07.2016 **EPL** EPL B1.A1 1 Terminal diagram +B1.A1-XD1 06.07.2016 2 **EPL** B1.A1 Terminal diagram +B1.A1-XD2 06.07.2016 B1.A1 3 EPL Terminal diagram +B1.A1-XD3 23.06.2016 C1 1 05.07.2016 **EPL** Summarized parts list: LAPP.00101253 - K19DRS71M4/TF C1 **EPL** 1 Device tag list: +C1-WD1 - =C07+C1-MA1 05.07.2016 C1 **EPL** 1 Cable overview: +C1-WD1 - +C1-WD12 05.07.2016 C1 **EPL** 1 Cable diagram +C1-WD1 23.06.2016 2 C1 **EPL** Cable diagram +C1-WD2 23.06.2016

Job number [ESS]_Sample_Project Table of contents: +A3&EMB1/1 - +C1&EMB Project name EPLAN Software & Service Grinding machine GmbH & Co. KG Date 06-07-2016 Editor EPL Date Approved by Modification Name



&AAB1

1.4

Table of contents

Higher-level function Edited by Mounting location Page Page description supplementary page field Date 3 **EPL** C1 Cable diagram +C1-WD3 23.06.2016 C1 4 EPL Cable diagram +C1-WD4 23.06.2016 C1 5 EPL Cable diagram +C1-WD5 23.06.2016 C1 6 Cable diagram +C1-WD6 23.06.2016 EPL C1 7 Cable diagram +C1-WD8 23.06.2016 Cable diagram +C1-WD9 C1 8 **EPL** 24.06.2016 9 Cable diagram +C1-WD10 **EPL** C1 24.06.2016 C1 10 Cable diagram +C1-WD11 24.06.2016 EPL C1 11 Cable diagram +C1-WD12 24.06.2016 EPL C1.A1 1 Summarized parts list: RIT.1511510 - PXC.2861250 05.07.2016 EPL 1 **EPL** C1.A1 Device tag list : =+C1.A1-U55 - +C1.A1-XD2 05.07.2016 **EPL** C1.A1 1.1 Device tag list: +C1.A1-XD2 - =A07+C1.A1-KF2 05.07.2016 C1.A1 1 Cable overview: +C1.A1-WD1 - +C1.A1-WD7 05.07.2016 **EPL** C1.A1 1 Cable diagram +C1.A1-WD1 23.06.2016 **EPL** 2 Cable diagram:WD2 06.07.2016 **EPL** C1.A1 3 Cable diagram +C1.A1-WD3 EPL C1.A1 23.06.2016 4 C1.A1 Cable diagram:WD4 06.07.2016 EPL 5 **EPL** C1.A1 Cable diagram:WD5 06.07.2016 C1.A1 6 Cable diagram +C1.A1-WD6 23.06.2016 **EPL** C1.A1 7 Cable diagram +C1.A1-WD7 23.06.2016 **EPL** C1.A1 **EPL** 1 Terminal-strip overview: +C1.A1-XD1 - +C1.A1-XD3 05.07.2016 **EPL** C1.A1 1 Terminal diagram +C1.A1-XD1 06.07.2016 EPL C1.A1 2 Terminal diagram +C1.A1-XD2 06.07.2016 EPL C1.A1 3 23.06.2016 Terminal diagram +C1.A1-XD3 C1.A2 **EPL** 1 Summarized parts list: FES.570783 - FES.529993 05.07.2016 **EPL** C1.A2 1.1 Summarized parts list: FES.529853 - FES.560966 05.07.2016 C1.A2 **EPL** 1 Device tag list: =+C1.A2-AL1 - =+C1.A2-XL8 05.07.2016 **EPL** C1.A2 1.1 Device tag list: =+C1.A2-XL9 - =A08+C1.A2-XL3 05.07.2016

Project name Modification Date Creator Name

Job number [ESS]_Sample_Project Grinding machine Approved by

EPLAN Software & Service

GmbH & Co. KG

Table of PB/1.1

Date 06-07-2016 Editor

Table of contents: +C1&EMB2/3 - +C1.A2&A EPL

Table of contents

&AAB1

1.5

Table of contents

F06_002 Higher-level function Edited by Mounting location Page Page description supplementary page field Date **EPL** C1.A2 1.2 Device tag list: =A08+C1.A2-XL4 - =A08+C1.A2-XL11 05.07.2016 C1.A2 1 Cable overview: +C1.A2-WD1 - +C1.A2-WD1 05.07.2016 **EPL EPL** C1.A2 1 Cable diagram +C1.A2-WD1 23.06.2016 C1.A2 1 Terminal-strip overview: +C1.A2-XD1 - +C1.A2-XD1 05.07.2016 EPL C1.A2 1 Terminal diagram +C1.A2-XD1 06.07.2016 Summarized parts list: LAPP.00101253 - DRN90L4/FE/TH EPL D1 1 05.07.2016 **EPL** D1 1 Device tag list: +D1-WD1 - =D01+D1-MA1 05.07.2016 D1 1 Cable overview: +D1-WD1 - +D1-WD4 05.07.2016 **EPL** D1 1 Cable diagram +D1-WD1 23.06.2016 EPL D1 2 Cable diagram +D1-WD2 23.06.2016 EPL 3 Cable diagram +D1-WD3 **EPL** D1 23.06.2016 4 **EPL** D1 Cable diagram +D1-WD4 23.06.2016 D1.A1 1 Summarized parts list: RIT.1511510 - PXC.2703994 05.07.2016 **EPL** D1.A1 1 Device tag list : =+D1.A1-U8 - =A07+D1.A1-KF1 05.07.2016 **EPL** 1 Cable overview: +D1.A1-WD1 - +D1.A1-WD3 05.07.2016 **EPL** D1.A1 1 Cable diagram +D1.A1-WD1 **EPL** D1.A1 23.06.2016 D1.A1 2 Cable diagram:WD2 06.07.2016 EPL 3 **EPL** D1.A1 Cable diagram +D1.A1-WD3 05.07.2016 D1.A1 1 Terminal-strip overview: +D1.A1-XD1 - +D1.A1-XD3 05.07.2016 **EPL** D1.A1 1 06.07.2016 **EPL** Terminal diagram +D1.A1-XD1 2 EPL D1.A1 Terminal diagram +D1.A1-XD2 06.07.2016 3 **EPL** D1.A1 Terminal diagram +D1.A1-XD3 23.06.2016 A01 A1 1 EPL 400 / 230 V power supply 06.07.2016 A2 1 06.07.2016 **EPL** 24 V device power supply A2 2 **EPL** 24 V supply PLC signals 06.07.2016 A03 EPL C1.A2 1 06.07.2016 Connect compressed air 2 **EPL** C1.A2 06.07.2016 Pressure monitoring

C1.A2 1 06.07.2016 Service unit Job number [ESS]_Sample_Project Project name Table of contents: +C1.A2&APB/1.2 - =A03 EPLAN Software & Service Table of contents: +C1.A2&MFS11/1 Grinding machine GmbH & Co. KG Modification Date Creator Approved by Name

EPL

Table of contents

F06_002 Higher-level function Mounting location Edited by Page Page description supplementary page field Date A05 EPL Α1 1 Enclosure light 06.07.2016 A2 EPL 1 Enclosure light 06.07.2016 A06 A2 **EPL** 1 Control 06.07.2016 EPL A2 2 Emergency-stop switch 06.07.2016 A2 3 Emergency-stop switch 06.07.2016 A07 A2 06.07.2016 **EPL** 1 Power supply PC A2 2 Power supply I/O module **EPL** 06.07.2016 EPL A2 1 Bus coupler 06.07.2016 2 EPL A2 Digital inputs 06.07.2016 A2 3 EPL Digital inputs 06.07.2016 A2 4 **EPL** Safety supply terminal 06.07.2016 A2 5 Safety digital inputs **EPL** 06.07.2016 6 **EPL** A2 Safety digital inputs 06.07.2016 A2 7 **EPL** Safety digital outputs 06.07.2016 A2 8 Supply terminal digital outputs 06.07.2016 EPL A2 9 Digital outputs 06.07.2016 EPL **EPL** A2 10 PLC diagram : =A07+A2-KF2 - =A07+A2-KF223.06.2016 A2 **EPL** 11 PLC diagram : =A07+A2-KF3 - =A07+A2-KF3 05.07.2016 A2 12 PLC diagram : =A07+A2-KF4 - =A07+A2-KF405.07.2016 **EPL** A2 13 PLC diagram : =A07+A2-KF6 - =A07+A2-KF6 23.06.2016 **EPL** A2 14 PLC diagram : =A07+A2-KF7 - =A07+A2-KF7 EPL 23.06.2016 A2 15 EPL PLC diagram : =A07+A2-KF8 - =A07+A2-KF823.06.2016 A2 EPL 16 PLC diagram : =A07+A2-KF10 - =A07+A2-KF10 23.06.2016 EPL B1.A1 1 Power supply I/O module 06.07.2016 **EPL** B1.A1 1 I/O module 06.07.2016 2 EPL B1.A1 PLC diagram : =A07+B1.A1-KF1 - =A07+B1.A1-KF1 23.06.2016 C1.A1 **EPL** 1 Power supply I/O module 06.07.2016 C1.A1 1 **EPL** I/O module 06.07.2016

EPLAN Software & Service

GmbH & Co. KG

Job number

Approved by

Table of contents +C1.A1&EFA1/1

06-07-2016 Editor

Table of contents: =A05+A1&EFS1/1 - =A07 EPL &AAB1

Page

1.7

Date

Name

Project name

Creator

Grinding machine

[ESS]_Sample_Project

Table of contents

Higher-level function Edited by Mounting location Page Page description supplementary page field Date A07 2 **EPL** C1.A1 Digital inputs 06.07.2016 C1.A1 3 EPL PLC diagram : =A07+C1.A1-KF1 - =A07+C1.A1-KF1 23.06.2016 **EPL** C1.A1 4 PLC diagram : =A07+C1.A1-KF2 - =A07+C1.A1-KF2 23.06.2016 D1.A1 1 Power supply I/O module 06.07.2016 EPL D1.A1 1 I/O module 06.07.2016 2 PLC diagram : =A07+D1.A1-KF1 - =A07+D1.A1-KF1 EPL D1.A1 23.06.2016 A08 **EPL** C1.A2 1 End plate left 06.07.2016 C1.A2 2 Interface (voltage module + fieldbus module) 06.07.2016 **EPL** EPL C1.A2 1 PLC diagram : =A08+C1.A2-AL1 - =A08+C1.A2-AL1 24.06.2016 C1.A2 2 PLC diagram : =A08+C1.A2-KF2 - =A08+C1.A2-KF2 23.06.2016 EPL C1.A2 3 PLC diagram : =A08+C1.A2-KF3 - =A08+C1.A2-KF3 **EPL** 23.06.2016 4 PLC diagram : =A08+C1.A2-KF4 - =A08+C1.A2-KF4 **EPL** C1.A2 24.06.2016 5 C1.A2 PLC diagram : =A08+C1.A2-KF5 - =A08+C1.A2-KF5 23.06.2016 **EPL EPL** C1.A2 1 PLC output card digital 1 06.07.2016 C1.A2 2 PLC input card digital 1 06.07.2016 **EPL** C1.A2 3 PLC input card digital 2 **EPL** 06.07.2016 4 **EPL** C1.A2 PLC input card digital 3 06.07.2016 5 **EPL** C1.A2 Interface 1 06.07.2016 C1.A2 1 Compressed air supply valve terminal 06.07.2016 **EPL** C1.A2 1 Valves 06.07.2016 **EPL** A09 A2 EPL 1 Power supply enclosure panel 06.07.2016 А3 **EPL** 1 06.07.2016 Power supply control panel panel EPL B01 Α1 1 06.07.2016 Actuator control EPL A2 1 06.07.2016 Sensor control B02 В1 **EPL** 1 Actuator/Sensor control 06.07.2016 В1 EPL 1 06.07.2016 Actuator control C01 Α1 **EPL** 1 06.07.2016 Actuator control 2 A2 **EPL** 06.07.2016 Sensor control

EPLAN Software & Service

GmbH & Co. KG

Job number

Approved by

EPL

&AAB1

Page

F06_002

1.8

Date

Name

Project name

Creator

Grinding machine

[ESS]_Sample_Project

Table of contents

Higher-level function Page supplementary page field Mounting location Page description Date Edited by C04 C1 1 Actuator/Sensor control 06.07.2016 EPL C1 EPL 1 Actuator control 06.07.2016 C05 C1 EPL 1 Actuator/Sensor control 06.07.2016 C1 06.07.2016 **EPL** 1 Actuator control C06 A1 1 Actuator control 06.07.2016 A2 2 Sensor control 06.07.2016 EPL C07 Α1 1 Actuator control 06.07.2016 EPL A2 2 Sensor control 06.07.2016 EPL D01 Α1 1 Actuator control 06.07.2016 **EPL** 2 A2 Sensor control 06.07.2016 **EPL**

&ADB1/1 &AAB1 Table of contents: =C04+C1&EFS1/1 - =D0 Table of conten 1+A2&EFS1/2 Table of contents Date 06-07-2016 Editor Page EPL 12 of 234 Page

F06_002

EPLAN Software & Service GmbH & Co. KG

Project name [ESS]_Sample_Project Job number Grinding machine Approved by Modification Date Name Creator