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PRODUCT MACROS FOR EPLAN 5.xx

Series: SD 315

Version: 1.4
Status: 09/2007

Number of pages: 8

TABLE OF CONTENTS / MACRO DIRECTORY

SHEET	PLANT	LOCATION	PAGE	DESIGNATION	TYPE/PART NO.	MACRO	EDIT.
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002	DOC		2	TABLE OF CONTENTS / MACRO DIRECTORY			CBA
003	DOC		3	DESCRIPTION			CBA
004	DOC		4	DESCRIPTION			CBA
005	SD315	D	1	Stepping motor amplifier	SD 315D	SD 315D	CBA
005	SD315	D	2	Stepping motor amplifier	SD 315D	SD 315D	CBA
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006	SD315	O	2	Stepping motor amplifier with Oszillator	SD 315O	SD 315O	CBA

LEGAL INFORMATION AND LIABILITY EXCLUSIONS

All details developed for this project are protected by
copyright and are the intellectual property of the company.

Berger Lahr GmbH & Co.KG
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All information is provided with the
best of intentions and to the best of our knowledge and belief.

We accept no liability for correctness or completeness
of information.

We provide no guarantee for the use of product
macros in the Eplan CAE System.

GENERAL INFORMATION

This product was created for EPLAN from version 5.60.
The functions contained in the macros are not available or only
restrictedly available for EPLAN versions previous to 5.60!

INFORMATION TO CHANGE THE LANGUAGE

1. Parameter->Project->Foreign languages->
expenditure sequence: D = german or E = english

2. Main menue->article->administration->Parameter->
Currency Language identification->
Article language identification: D = german / E = english

PRODUCT STRUCTURE

This project is a macro project and contains EPLAN
product macros belonging to Berger Lahr GmbH & Co.KG.

All EPLAN directories have been set to
...\EPLAN4\x\BERGER_LAHR\.

DATA/FILES

Project:

...\EPLAN4\P\BERGER_LAHR\SD315.P - Macro project + associated data

Standard files:

...\EPLAN4\N\BERGER_LAHR\

Macros:

...\EPLAN4\M\BERGER_LAHR\SD315\ - Macros series SD 315

Article:

...\EPLAN4\L\BERGER_LAHR\SD315\

...\EPLAN4\L\BERGER_LAHR\SD315\SD315_EN.XLS - MS-EXCEL article data

...\EPLAN4\L\BERGER_LAHR\SD315\SD315_EN.ASC - Eplan article import file english

INSTALLATION

All data (project, macros, article data, standardised data) can
be read in using the EPLAN data backup / restore functions.

Article data can be imported to individual master article data:
EPLAN article management / data exchange / import / EPLAN-ASCII format

MACROS

Macro construction

The product macros have been created so that they are
- usable for all Eplan project types in addition to almost all Eplan parameter settings
- so that they are easily visually recognisable by the user, whereby the main focus is on the technical construction.

Macro functionalities

The product macros have been logically tested,
- they can be embedded in existing projects without causing logical errors (EPLAN-evaluation sequences).
- they are logically interlinked with one another and can be easily connected using the EPLAN "autoconnecting" function.
- they are cross-referenced with one another since some componentry is shown distributed over several pages.

ARTICLE MASTER DATA

Master article data has been created for all devices and componentry.

They are applicable to the in-system EPLAN article management and can be integrated into existing master article data.

This enables acceptance of the data in article management systems outside EPLAN (PPS).
In addition, article data types can be adapted very easily to the existing data.

Since the dimensions of devices and componentry are stored in the master article data, the EPLAN "mounting plate fittings" module can be used for macros.

The article number is located next to every device or component.

Control cabinet macros

The switchgear cabinet macros can be generated by the measures deposited in the item stock automatically.

			Date	06.08.07	BERGER LAHR	DESCRIPTION		=DOC +
			User.	CBA				
			Check.	12.09.07				
Changes	Date	Name	Norm		MACROS SD315		Sheet 004	Page 4 of 4

0	1	2	3	4	5	6	7	8	9

S1 Position:	: Nom. current/motor:
0	= 3,0 A
1	= 3,7 A
2	= 4,4 A
3	= 4,8 A
4	= 5,2 A
5	= 5,5 A
6	= 5,8 A
7	= 6,2 A
8	= 6,6 A
9	= 7,0 A
A	= 7,5 A
B	= 8,0 A
C	= 8,5 A
D	= 9,0 A
E	= 9,5 A
F	= 10,0 A

S2	CurRed2	CurRed1	CurRed0
12%	ON	ON	ON
25%	ON	ON	OFF
37%	ON	OFF	ON
50%	ON	OFF	OFF
67%	OFF	ON	ON
75%	OFF	ON	OFF
87%	OFF	OFF	ON
100%	OFF	OFF	OFF

S2.4	ON	OFF
	Softstep active	Softstep deactivated

S3 Step	Step2	Step1	Step0
200	OFF	OFF	OFF
400	OFF	OFF	ON
500	OFF	ON	OFF
1000	OFF	ON	ON
2000	ON	OFF	OFF
4000	ON	OFF	ON
5000	ON	ON	OFF
10000	ON	ON	ON

S3.4	ON	OFF
	GATE	ENABLE

-U?

CN1: 1 VDC, 2 0VDC — VDC 24...48V — Phoenix/FKC 2,5/2-STF-5,08

CN2: 1 PULSE(24), 2 PULSE(5), 3 PULSE(0), 4 DIR(24), 5 DIR(5), 6 DIR(0), 7 ENABLE(24)/GATE(24), 8 ENABLE(5)/GATE(5), 9 ENABLE(0)/GATE(0), 10 ACTIVE_OUT_C, 11 ACTIVE_OUT_NO — Signal interface Phoenix/FK-MCP 1,5/11-ST-3,81

S1

S2: OFF; 1 CurRed2, 2 CurRed1, 3 CurRed0, 4 SoftStep

S3: OFF; 1 STEP2, 2 STEP1, 3 STEP0, 4 ENABLE/GATE

BERGER LAHR
SD 315D

Drive Phoenix/FKC 2,5/4-STF-5,08

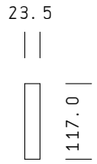
CN3: U, V, W, SH — 1, 2, 3, 4

LED1

LED2

			Date	06.08.07	BERGER LAHR	Stepping motor amplifier	Type/Part No: SD 315D Macro: SD 315D		=SD315 +D
			User.	CBA					
			Check.	12.09.07					
Changes	Date	Name	Norm		MACROS SD315			Sheet 005	Page 1 of 2

0	1	2	3	4	5	6	7	8	9



			Date	06.08.07	BERGER LAHR	Stepping motor amplifier	Type/Part No: SD 315D Macro: SD 315D		=SD315 +D
			User.	CBA					
			Check.	12.09.07					
Changes	Date	Name	Norm		MACROS SD315			Sheet 005	Page 2 of 2

0	1	2	3	4	5	6	7	8	9

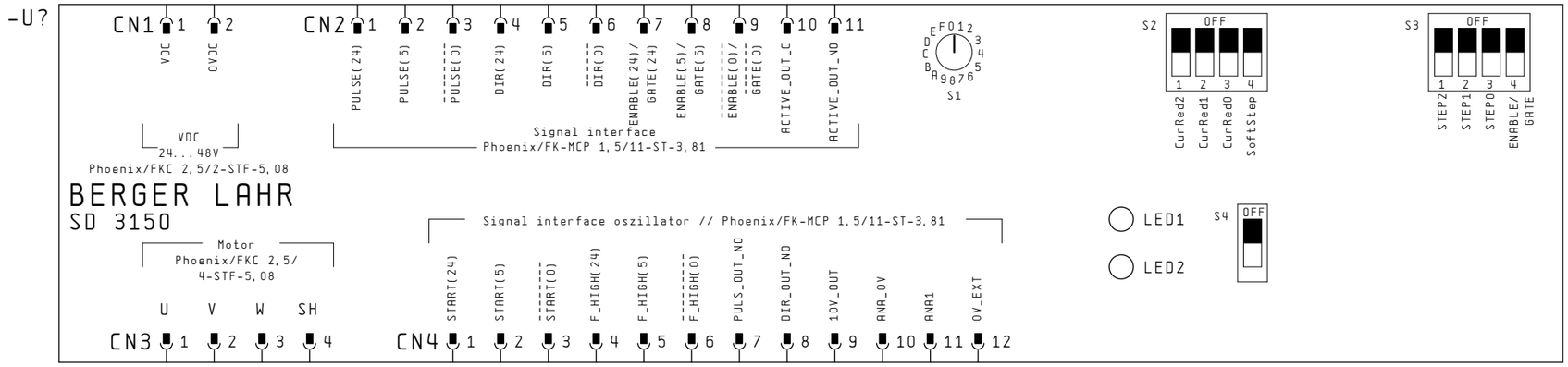
S1 Position:	Nom. current/motor:
0	3,0 A
1	3,7 A
2	4,4 A
3	4,8 A
4	5,2 A
5	5,5 A
6	5,8 A
7	6,2 A
8	6,6 A
9	7,0 A
A	7,5 A
B	8,0 A
C	8,5 A
D	9,0 A
E	9,5 A
F	10,0 A

S2	CurRed2	CurRed1	CurRed0
12%	ON	ON	ON
25%	ON	ON	OFF
37%	ON	OFF	ON
50%	ON	OFF	OFF
67%	OFF	ON	ON
75%	OFF	ON	OFF
87%	OFF	OFF	ON
100%	OFF	OFF	OFF

S2.4	ON	OFF
	Softstep active	Softstep deactivated

S3 Step	Step2	Step1	Step0
200	OFF	OFF	OFF
400	OFF	OFF	ON
500	OFF	ON	OFF
1000	OFF	ON	ON
2000	ON	OFF	OFF
4000	ON	OFF	ON
5000	ON	ON	OFF
10000	ON	ON	ON

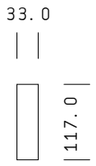
S3.4	ON	OFF
	GATE	ENABLE



S4	ON	OFF
	external Potentiometer at ANA1	integrierte Potentiometer f_high und f_low

			Date	06.08.07	BERGER LAHR	Stepping motor amplifier with Oszillator	Type/Part No: SD 3150 Macro: SD 3150	=SD315 +0
			User.	CBA				
			Check.	12.09.07				
Changes	Date	Name	Norm		MACROS SD315		Sheet 006	Page 1 of 2

0	1	2	3	4	5	6	7	8	9



			Date	06.08.07	BERGER LAHR	Stepping motor amplifier with Oszillator	Type/Part No: SD 3150		=SD315
			User.	CBA			Macro: SD 3150		+0
			Check.	12.09.07					
Changes	Date	Name	Norm		MACROS SD315			Sheet 006	Page 2 of 2