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 **AIR LIQUIDE**
INGENERIE

LOGIC DIAGRAMS

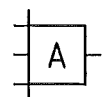
N° AFFAIRE
KOSICE
50-3023-01

FMT
A4

GROUPE
BAC
612

N°
870

Rev
1



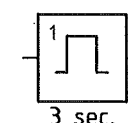
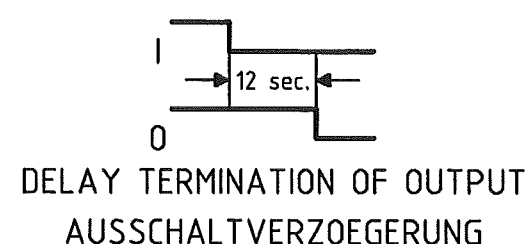
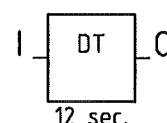
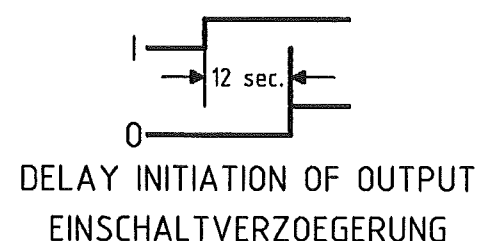
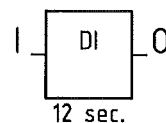
UND / AND



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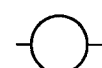
LAMPE / LAMP



IMPULS / PULSE

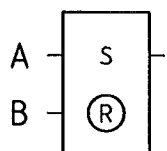


TRESHOLD
GRENZWERTBILDUNG

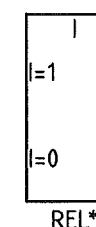


NEGATION

MAN TURBO
CLIENT



SPEICHER (FLIP FLOP)
B UEBERSCHREIBT A; R-STELLUNG BEI
SPANNUNGSAusFALL
MEMORY (FLIP-FLOP)
B OVERRIDES A; R-POS. ON POWER LOSS



Relais - schaltet über den Eingang 'I'
die Eingänge 'I=1' oder 'I=0' auf den Ausgang
RELAIS - INPUT 'I' SWITCHES THE
OUTPUT BETWEEN INPUT 'I=1' AND 'I=0'

ALL SIGNALS HAVE TO BE "FAIL SAFE":


MOTOR FAULT=1 MEANS NO FAULT DETECTED
PXXX-ALL=1 MEANS PRESSURE IS O.K. (>SETPOINT)
POWER FAILURE OR BROKEN CABLE WILL BRING THE
MACHINE IN SAFE POSITION

ALLE SIGNALE "FEHLERSICHER"

"MOTOR STOERUNG"=1 BED. KEINE STOERUNG VORHANDEN
PXXX-A_=1 BED. DRUCK IST OK (> GRENZWERT)
SPANNUNGSAusFALL ODER KABELBRUCH BRINGT
DIE ANLAGE IN SICHEREN ZUSTAND

			Date	01.10.2004	Field of application		Title	LOGIK DIAGRAMM	Drawing No. of Recipient	Dept.
			Drawn	AWISZUS			Title CUSTOMER	ABB. & SYMBOLS		TK52
2	FINAL	05.08.2005	WE/AWI	Checked	AWISZUS		Drawing No.	10000198454		Blatt 2
R.	Nature of Revision	Date	Drawn/Checked	Norm						10 Bl.

Zeile Line	Ursprung Source	Eingaenge Inputs	MASCHINE TRIPS; VIBRATIONS, BEARINGS										1	Ausgaenge Outputs	Ziel Dest.	Zeile Line	
1																1	
2																2	
3																3	
4																4	
5																5	
6	5 1.14 1.13 FIELD	XISHH 16738X COMPR. SHAFT 1 JOURN. BRG. DE KOMPR. WELLE 1 RADIALLAGER DE	0=TRIP														6
7	5 FIELD	YISHH 16738Y COMPR. SHAFT 1 JOURN. BRG. DE KOMPR. WELLE 1 RADIALLAGER DE	0=TRIP														7
8	5 1.14 FIELD	XISHH 16736X COMPR. SHAFT 1 JOURN. BRG. NDE KOMPR. WELLE 1 RADIALLAGER NDE	0=TRIP														8
9	6 FIELD	YISHH 16736Y COMPR. SHAFT 1 JOURN. BRG. NDE KOMPR. WELLE 1 RADIALLAGER NDE	0=TRIP														9
10	6 1.18 FIELD	XISHH 16743X COMPR. SHAFT 2 JOURN. BRG. DE KOMPR. WELLE 2 RADIALLAGER DE	0=TRIP											A	COMMON MASCHINE TRIP SAMMEL MASCHINEN ABSCHALTUNG	SHEET 6 LINE 6	10
11	6 FIELD	YISHH 16743Y COMPR. SHAFT 2 JOURN. BRG. DE KOMPR. WELLE 2 RADIALLAGER DE	0=TRIP														11
12	6 FIELD	XISHH 16740X COMPR. SHAFT 2 JOURN. BRG. NDE KOMPR. WELLE 2 RADIALLAGER NDE	0=TRIP														12
13	6 FIELD	YISHH 16740Y COMPR. SHAFT 2 JOURN. BRG. NDE KOMPR. WELLE 2 RADIALLAGER NDE	0=TRIP														13
14	4 1.18 1.18 FIELD	TISHH 16730 COMPR. BULL GEAR JOURN. BRG. DE KOMPR. GROSSRAD RADIALLAGER DE	0=TRIP														14
15	4 1.18 1.17 FIELD	TISHH 16733 COMPR. BULL GEAR JOURN. BRG. NDE KOMPR. GROSSRAD RADIALLAGER NDE	0=TRIP														15
16	5 1.11 1.19 FIELD	TISHH 16734 COMPR. BULL GEAR THRUST BRG. INBOARD KOMPR. GROSSRAD AXIALLAGER INNEN	0=TRIP														16
17	5 1.10 1.10 FIELD	TISHH 16735 COMPR. BULL GEAR THRUST BRG. OUTBOARD KOMPR. GROSSRAD AXIALLAGER AUSSEN	0=TRIP														17
18	5 1.12 1.11 FIELD	TISHH 16738 COMPR. SHAFT 1 JOURN. BRG. DE KOMPR. WELLE 1 RADIALLAGER DE	0=TRIP														18
19	5 1.11 1.11 FIELD	TISHH 16736 COMPR. SHAFT 1 JOURN. BRG. NDE KOMPR. WELLE 1 RADIALLAGER NDE	0=TRIP														19
20	6 1.15 1.15 FIELD	TISHH 16743 COMPR. SHAFT 2 JOURN. BRG. DE KOMPR. WELLE 2 RADIALLAGER DE	0=TRIP														20
21	6 1.15 1.14 FIELD	TISHH 16740 COMPR. SHAFT 2 JOURN. BRG. NDE KOMPR. WELLE 2 RADIALLAGER NDE	0=TRIP														21

			Date	01.10.2004	Field of application KOSBOOST 312410		Title	LOGIK DIAGRAMM	Drawing No. of Recipient	Dept. TK52	
2	FINAL	05.08.2005	WE/AWI	Drawn			AWISZUS	Title CUSTOMER			MASCHINE TRIPS
R. Nature of Revision		Date	Drawn/Checked	Norm				Drawing No.			10000198454
											Blatt 3
											10 BL.

Zeile Line	Ursprung Source	Eingaenge Inputs		PROCESS TRIPS; PROCESS TEMP., LUBE OIL PRESSURE	1	Ausgaenge Outputs	Ziel Dest.	Zeile Line
1								1
2								2
3	4. 1D1 1B9 FIELD	PISLL 16854 OIL FILTER DOWNSTREAM NACH OELFILTER	0=TRIP	0=TRIP				3
4								4
5								5
6								6
7	1K14 1G14 8. FIELD	TSAHH 16007 STAGE 1 SUCTION STUFE 1 ANSAUGUNG	0=TRIP					7
8	1K14 1F14 8. FIELD	PISHH 16007 STAGE 1 SUCTION STUFE 1 ANSAUGUNG	0=TRIP					8
9	1D13 1D14 1G11 8. FIELD	TISHH 16015 STAGE 2 SUCTION STUFE 2 ANSAUGUNG	0=TRIP					9
10	1K7 1K8 1G9 9. FIELD	TISAHH 16025 STAGE 3 SUCTION STUFE 3 ANSAUGUNG	0=TRIP					10
11	1D7 1D8 1G6 9. FIELD	TISAHH 16035 STAGE 4 SUCTION STUFE 4 ANSAUGUNG	0=TRIP		A	COMMON PROCESS TRIP SAMMEL PROZESS ABSCHALTUNG	SHEET 6 LINE7	11
12	6. 1D5 1F3 FIELD	PISHH 16045 COMPR. DISCHARGE KOMPR. AUSTRITT						12
13	7. 1D5 1E3 FIELD	TSAHH 16045 COMPR. DISCHARGE KOMPR. AUSTRITT						13
14	4. CLIENT ESD	XS COMMON TRIP SAMMEL ABSCHALTUNG	0=TRIP					14
15								15
16								16
17								17
18								18
19								19
20								20
21								21

			Date	01.10.2004	Field of application		Title	LOGIK DIAGRAMM	Drawing No. of Recipient	Dept.	TK52
			Drawn	AWISZUS	KOSBOOST		Title CUSTOMER	PROCESS TRIPS		Blatt	4
2	FINAL	05.08.2005	WE/AWI	Checked	AWISZUS	312410	Drawing No.	10000198454		10	Bl.
R. Nature of Revision		Date	Drawn/Checked	Norm							



Zeile Line	Ursprung Source	Eingaenge Inputs		DCS	COMPRESSOR START UP INTERLOCK SIGNALS	5	Ausgaenge Outputs	Ziel Dest.	Zeile Line
1									1
2									2
3									3
4									4
5	/4. CLIENT DCS	XS COMMON INTERLOCK SAMMEL EINSCHALTVERR.	1=OK						5
6									6
7	/7. FIELD	ZSH 16074 COMPR. RECYCLE VAVLE KOMPR. UMBLASEVENTIL	1=OPEN						7
8	/8. FIELD	ZSH 16110 STAGE 1 INLET GUIDE VANES STUFE 1 VORLEITSCHAUFEL	1=OPEN						8
9	/1K14 /1F14 /8. FIELD	PAL 16007 STAGE 1 SUCTION STUFE 1 ANSAUGUNG	0=LOW						9
10									10
11	/1B11 /1A13 /2.8 FIELD	LAL 16812 OIL RESERVOIR OELTANK	0=LOW						11
12		PIA 16855 OIL SIMULATION LINE OEL SIMULIERLEITUNG	0=LOW						12
13	/4. FIELD	TAL 16854 OIL FILTER DOWNSTREAM NACH OELFILTER	0=LOW						13
14	/8.3 FIELD	PAL 16751 COMPR. EXT. SEAL GAS SUPPLY KOMPR. EXT. SPERRGASVERSORGUNG	0=LOW						14
15									15
16									16
17									17
18									18
19									19
20				COMMON INTERLOCK (CLIENT DCS) TO INCLUDE: COOLING WATER AVAILABLE INSTUMENT AIR AVAILABLE					20
21									21

			Date	01.10.2004	Field of application		Title	LOGIK DIAGRAMM	Drawing No. of Recipient	Dept.	TK52
2	FINAL	05.08.2005	WE/AWI	Drawn	AWISZUS		Title CUSTOMER	COMPR START UP INTERLOCK			Blatt 5
R.	Nature of Revision	Date	Drawn/Checked	Norm			Drawing No.	10000198454			10 Bl.

KOSBOOST
312410



Title
Title CUSTOMER
Drawing No.

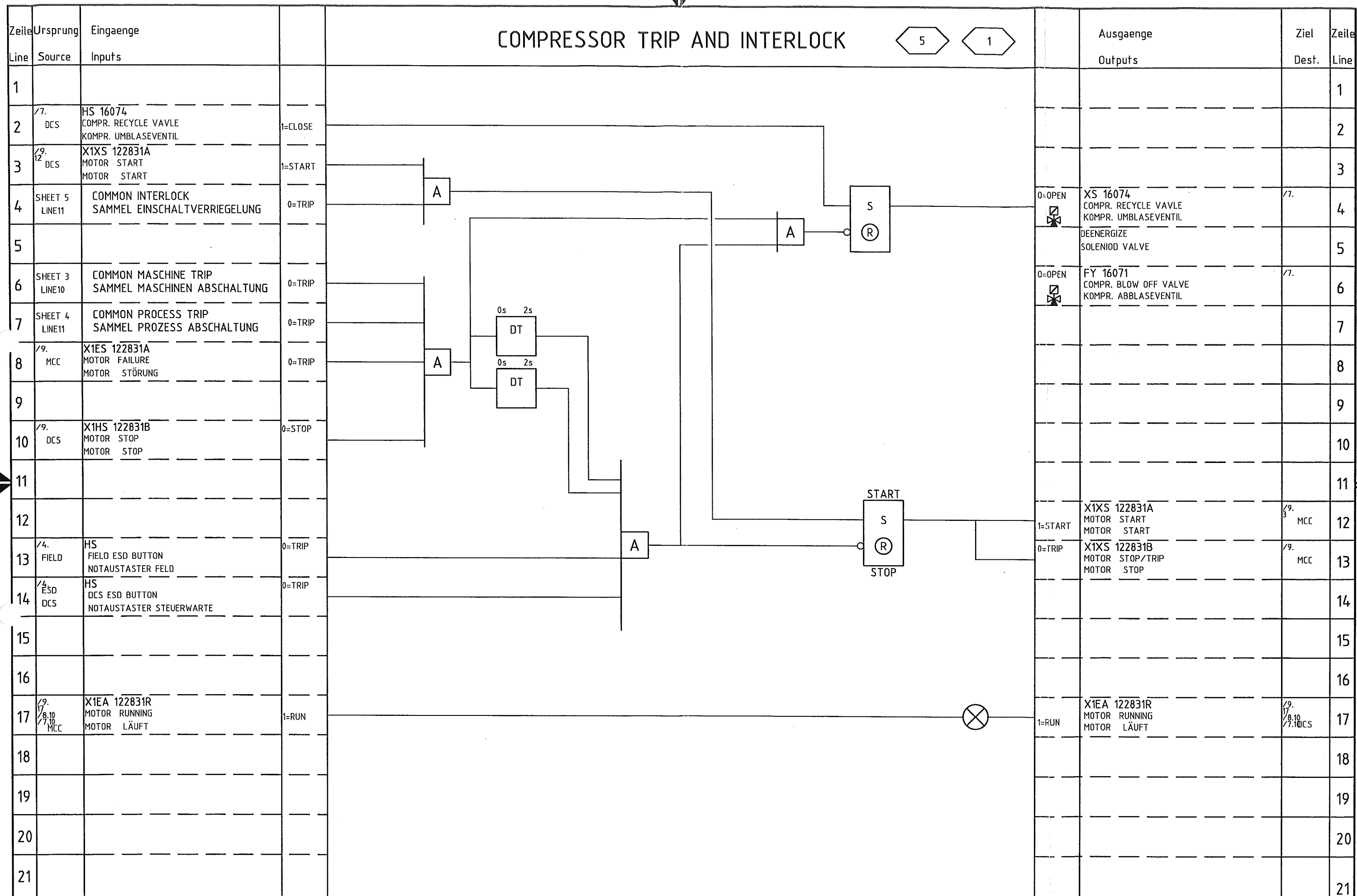
LOGIK DIAGRAMM
COMPR START UP INTERLOCK
10000198454

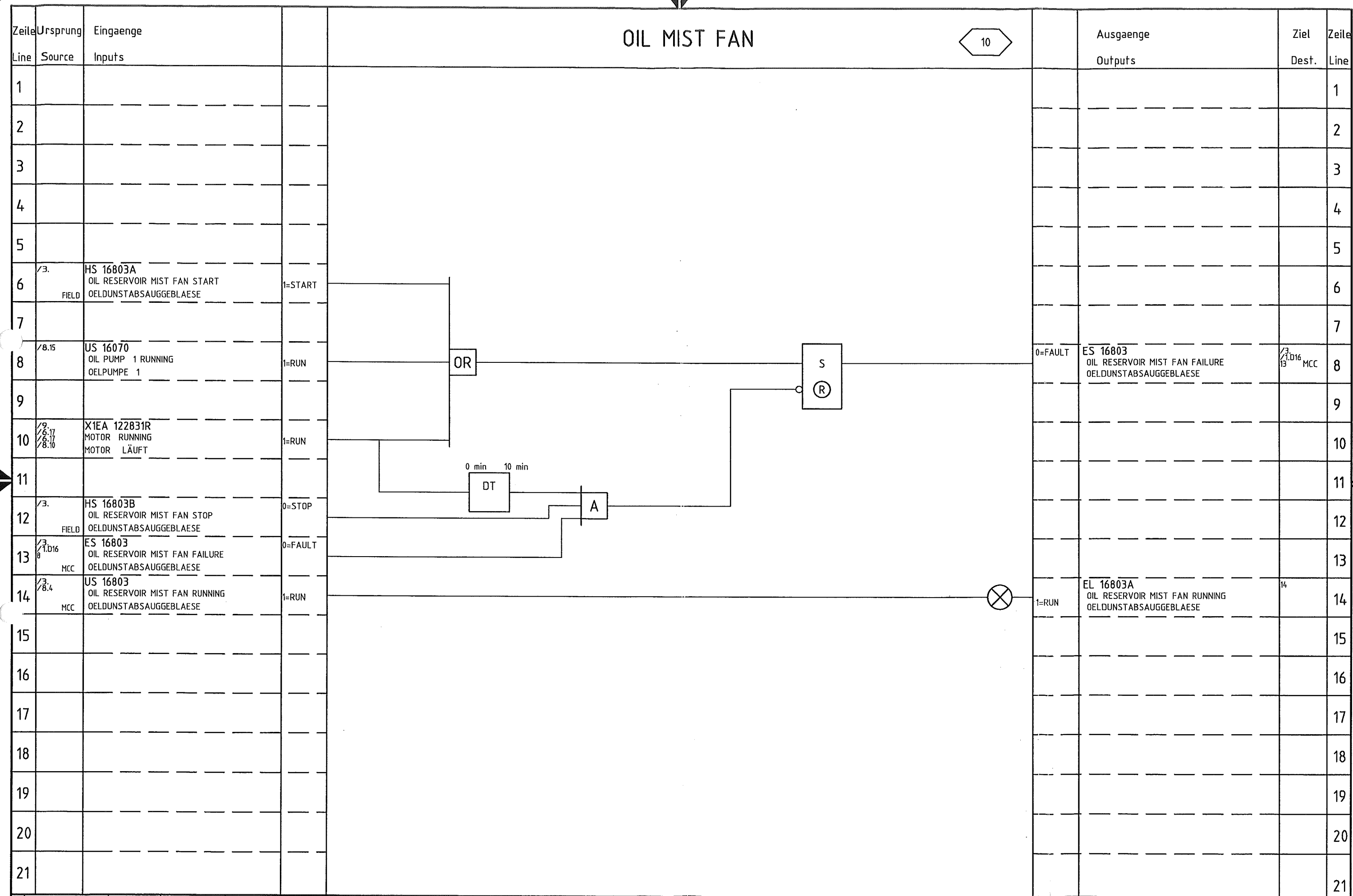
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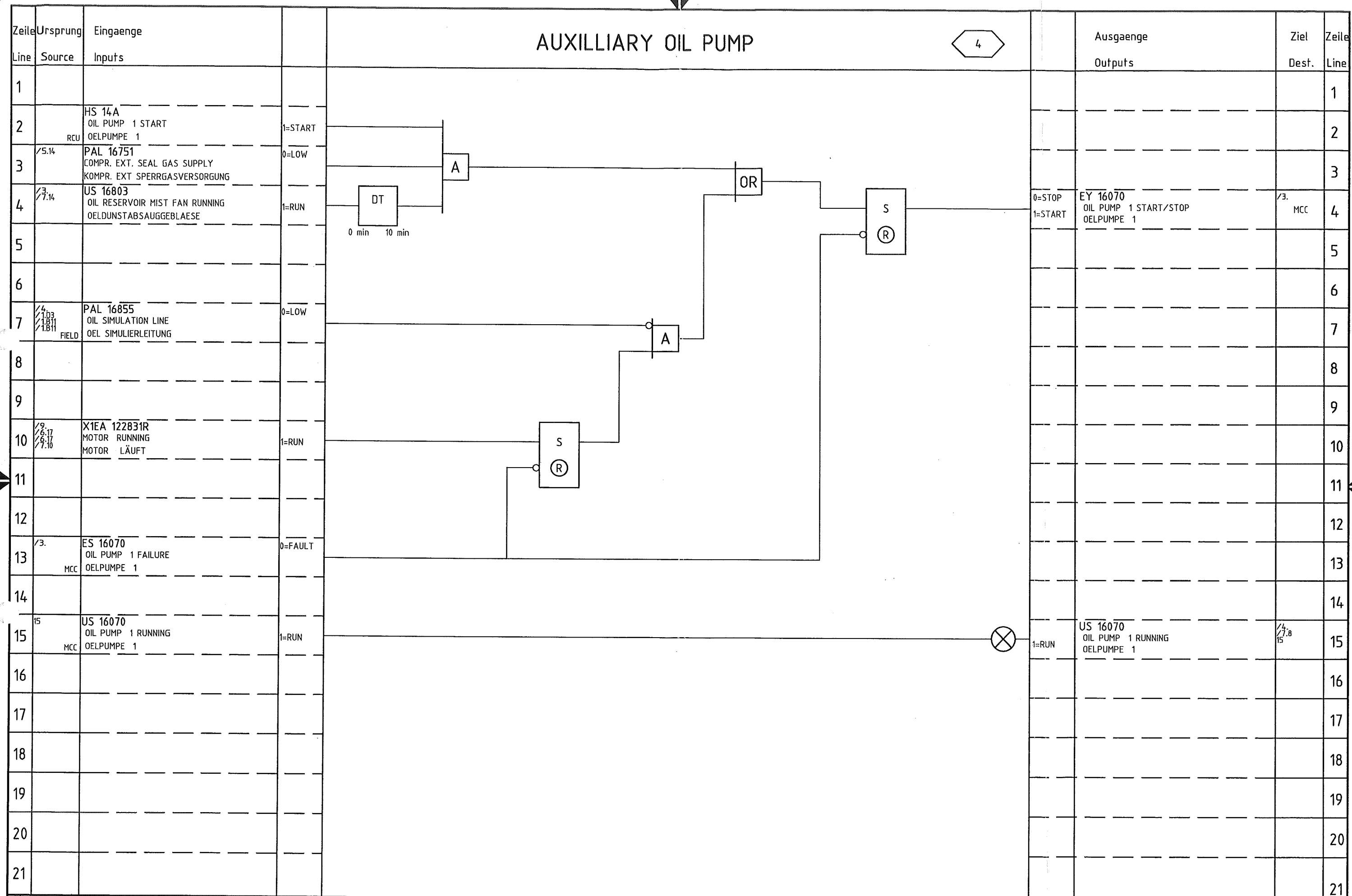
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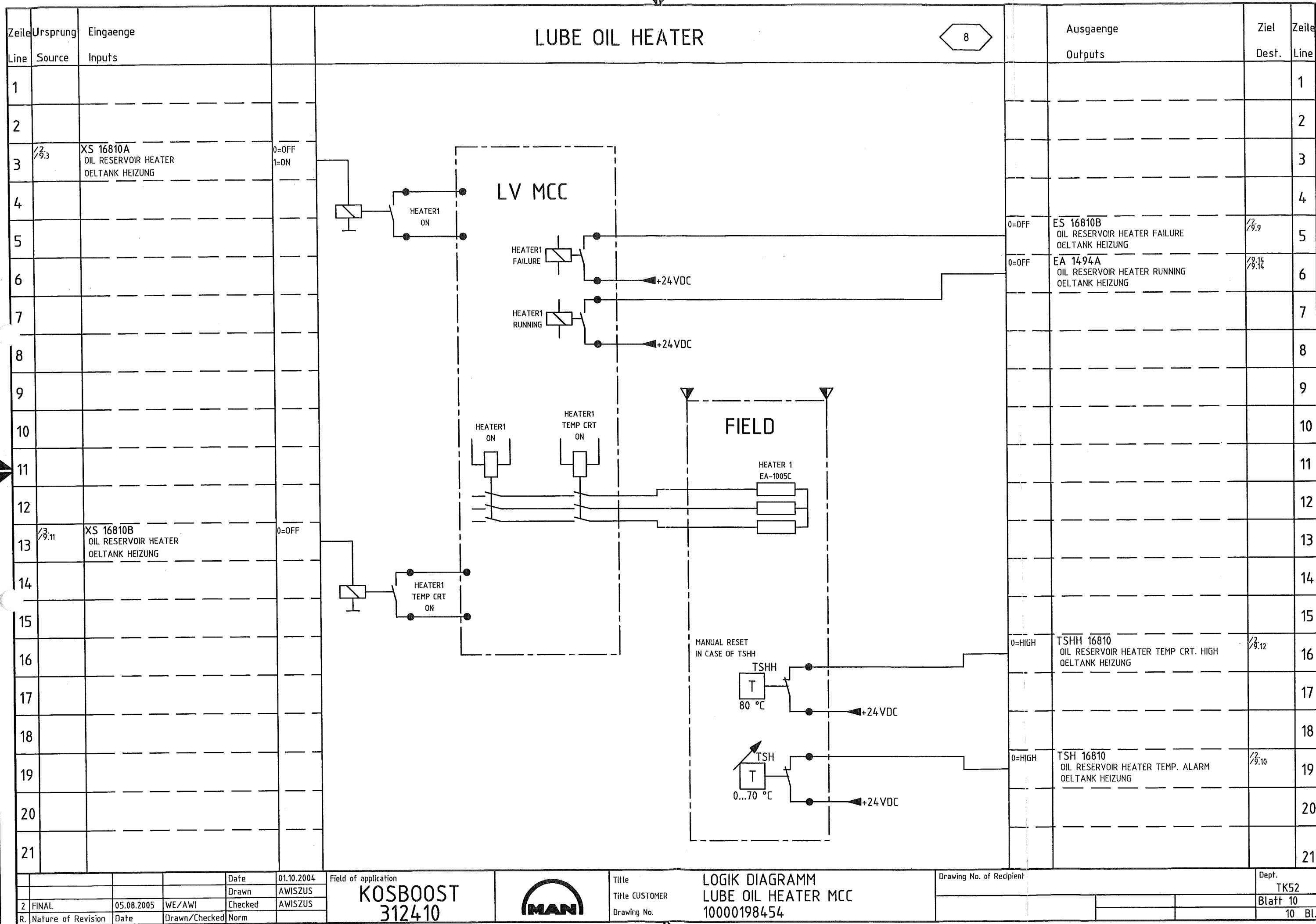
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10 Bl.









			Date	01.10.2004
2	FINAL	05.08.2005	WE/AWI	Checked
R.	Nature of Revision	Date	Drawn/Checked	Norm

Field of application
KOSBOOST
312410



Title
Title CUSTOMER
Drawing No.

LOGIK DIAGRAMM
LUBE OIL HEATER MCC
10000198454

Drawing No. of Recipient
Dept. TK52
Blatt 10
10 Bl.