



REFRION S.r.l.
 Vicolo Malvis, 1
 I-33030 Flumignano di Talmassons (UD)
 Tel. +39 0432 765533 Fax +39 0432 765574

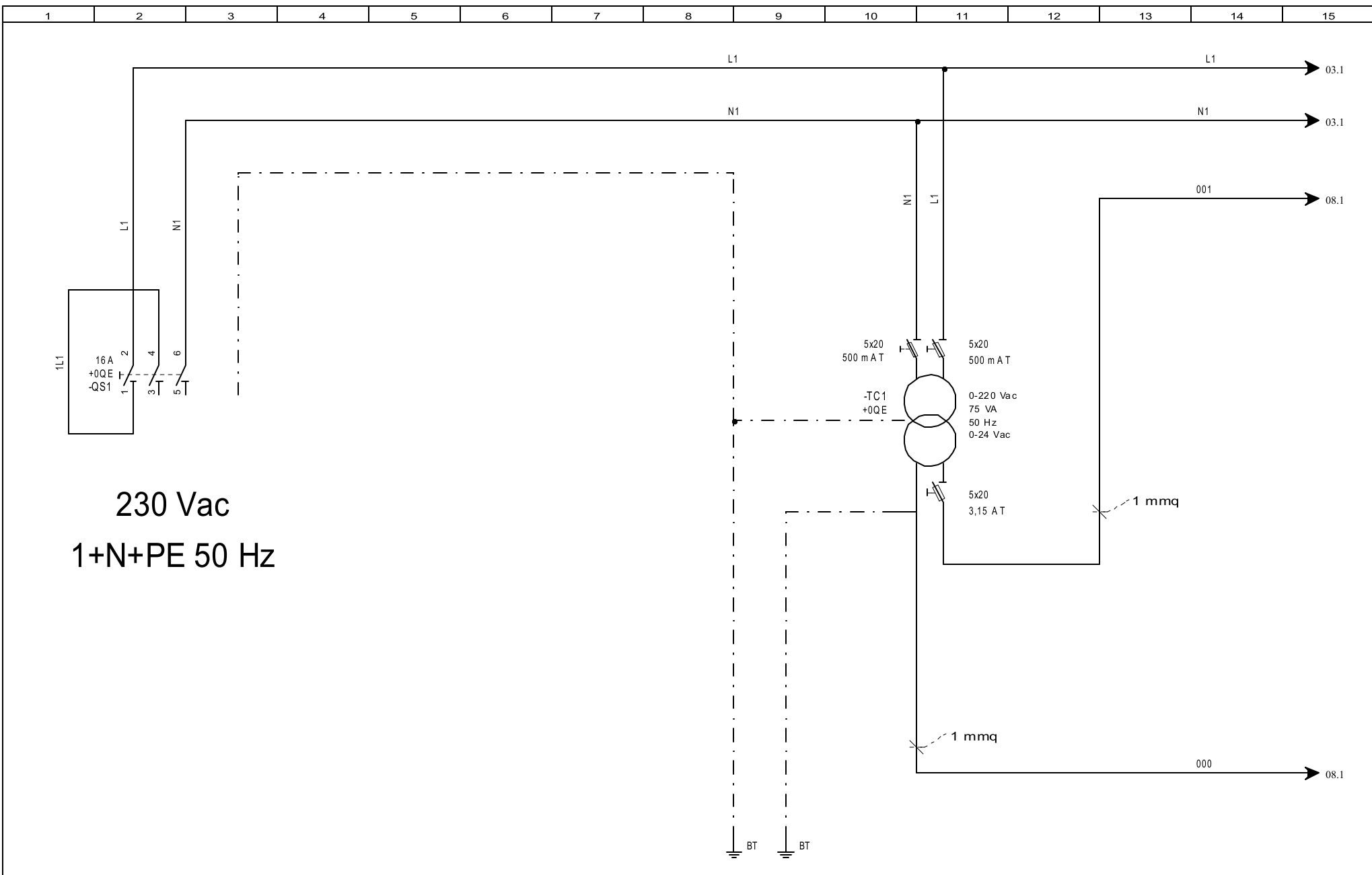
WIRING DIAGRAM

Project		Technical Data	
Order	201800874-1000 -F	Operating Voltage	230 [Vac]
Drawing	E0C0007528-10	Low-Voltage	24 [Vac]
Model	KA3X1280.2 Q U F E/R410A	Frecuence	50 [Hz]
Customer Code	S00123	Total Current	7 [A]
Customer order	LZ/2018/193	Total Power supply	1,6 [kW]
Date	07/11/2018	Protection class	IP55

Comments	

0		07/11/2018	R T	A G	
review	Modifications	Date	Prepared	Verified	

IT IS FORBIDDEN TO HAND IN THIS DOCUMENT TO THIRD PARTIES, TO COPY IT, TO MAKE USE OF ITS CONTENTS AND TO DISCLOSE IT TO THIRD PARTIES WITHOUT OUR EXPLICIT AUTHORIZATION. A COMPENSATION FOR THE DAMAGES OCCURRED WILL BE ASKED FOR EVERY INFRACTION.ALL RIGHTS ARE RESERVED.

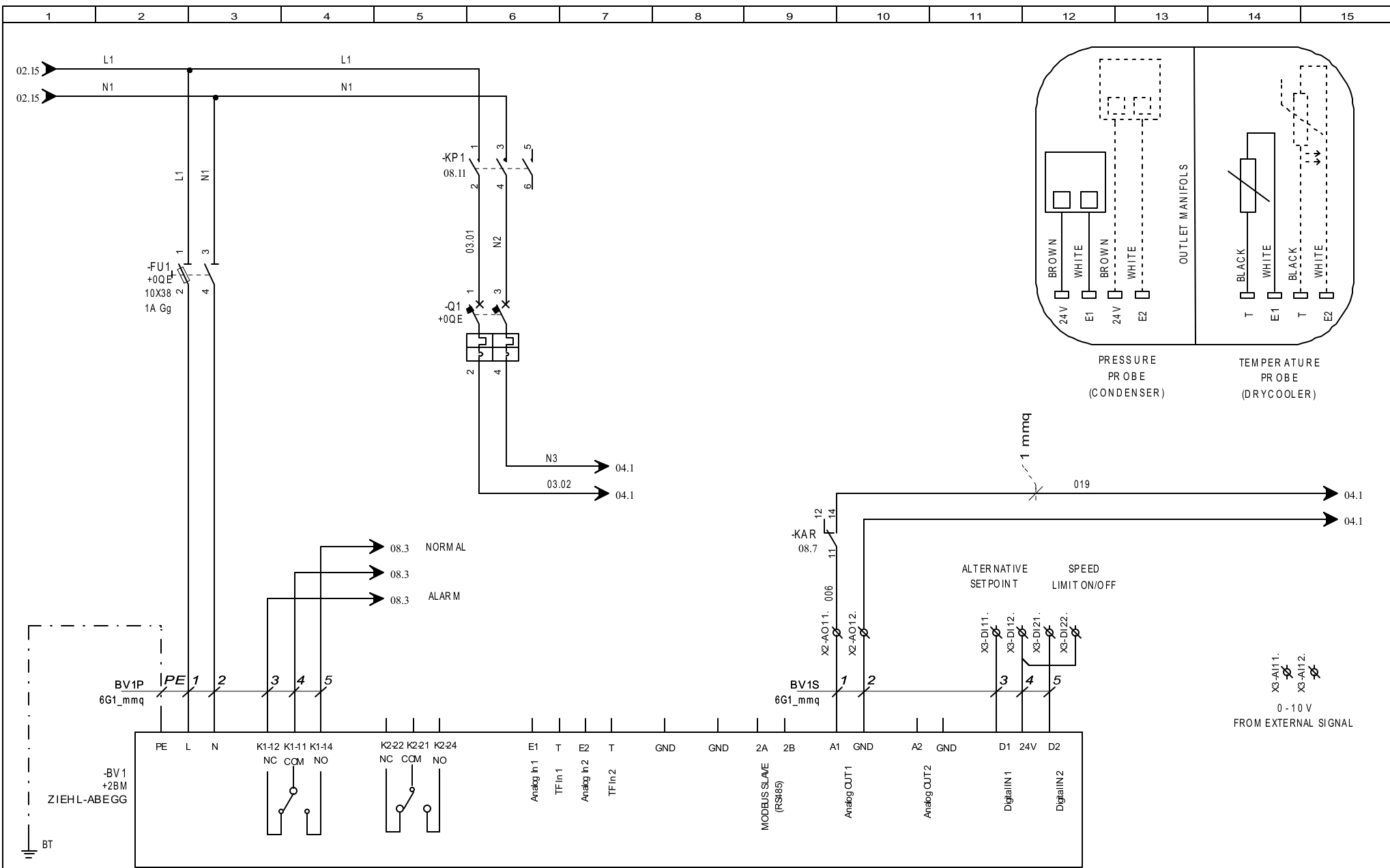


REV.	DATE	SIGN.	MODIFICATION
1	03/02/2010		

REFRION
a better innovation

PROJECT:	X.EC.U. . 1606.F1.V230F1H50	SHEET	02
INTERNAL ORDER:	04806310	OF	16
CUSTOMER:	0480	CUSTOMER ORDER:	
TITLE:	Power circuit		
DESIGNER:	E.A.	DATE:	12/09/2016

01◀▶03

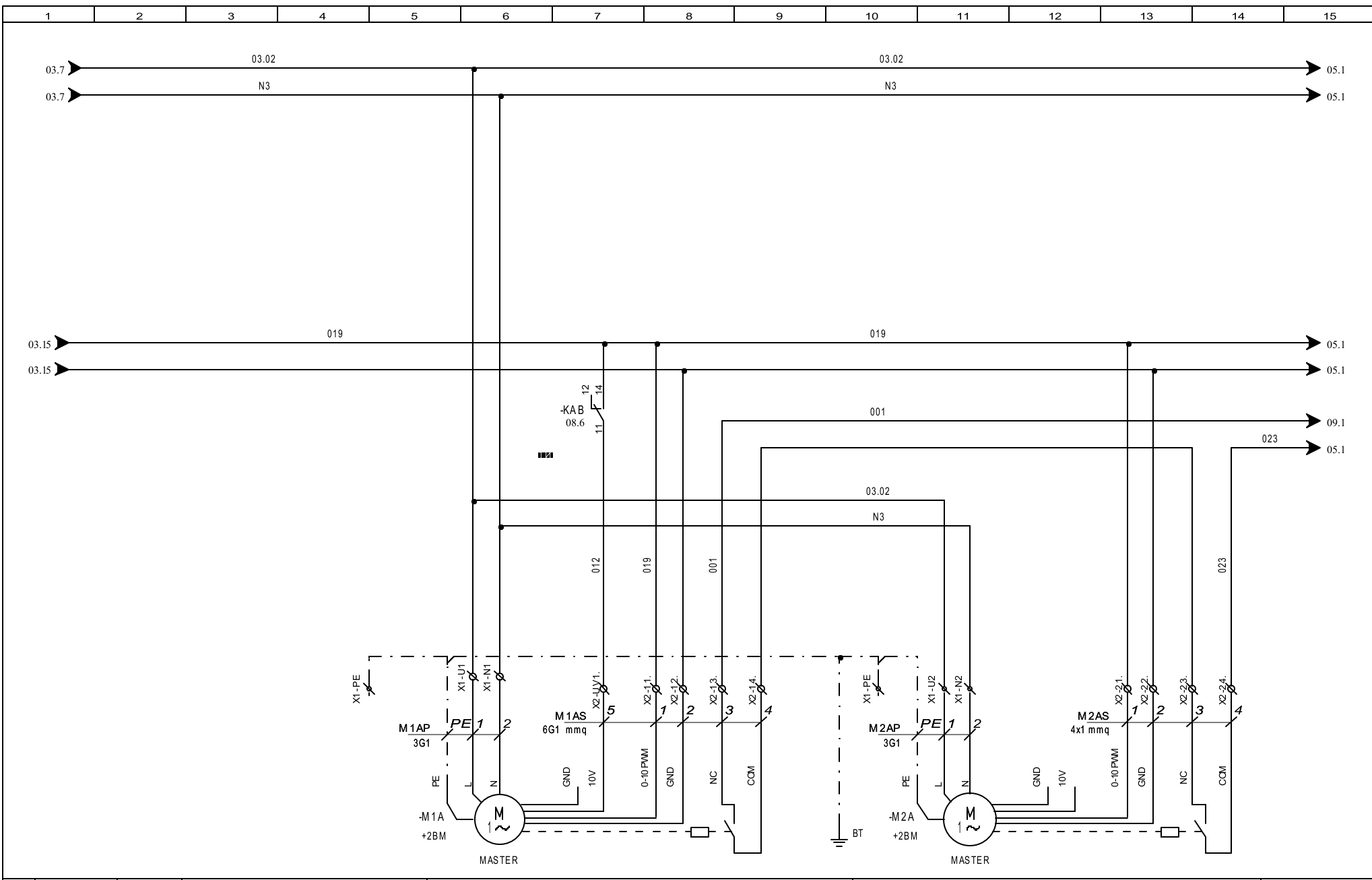


1	03/02/2010	SIGN.	MODIFICATION
REV.	DATE	SIGN.	MODIFICATION

REFRION
a better innovation

PROJECT:	X.EC . U . . 16 . . . 06.F1.V230F1H50	SHEET	03
INTERNAL ORDER:	04806310	OF	16
CUSTOMER:	0480	CUSTOMER ORDER:	
TITLE:	Power circuit		
DESIGNER:	E.A.	DATE:	12/09/2016

02◀▶04

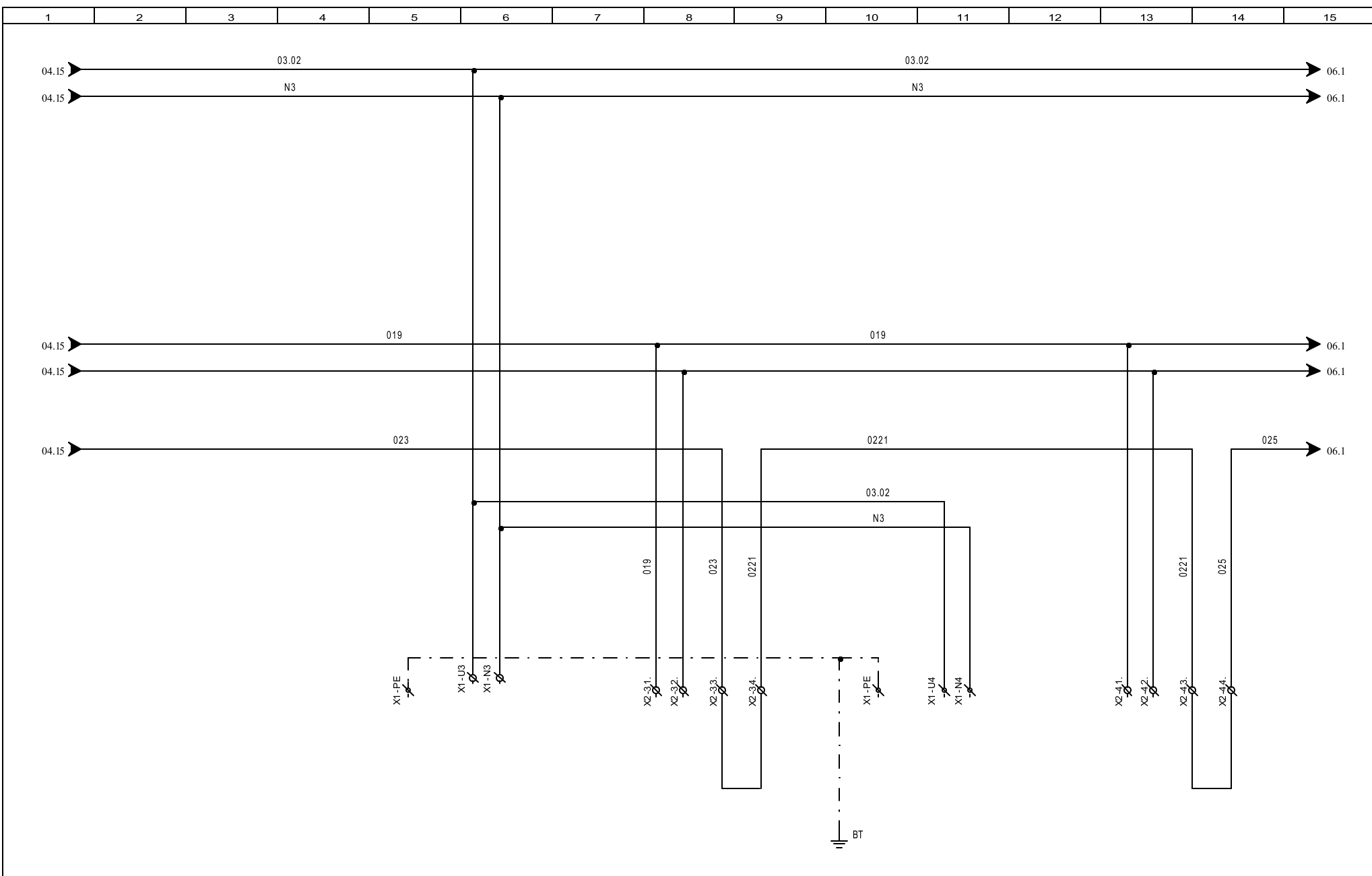


1	03/02/2010		
REV.	DATE	SIGN.	MODIFICATION

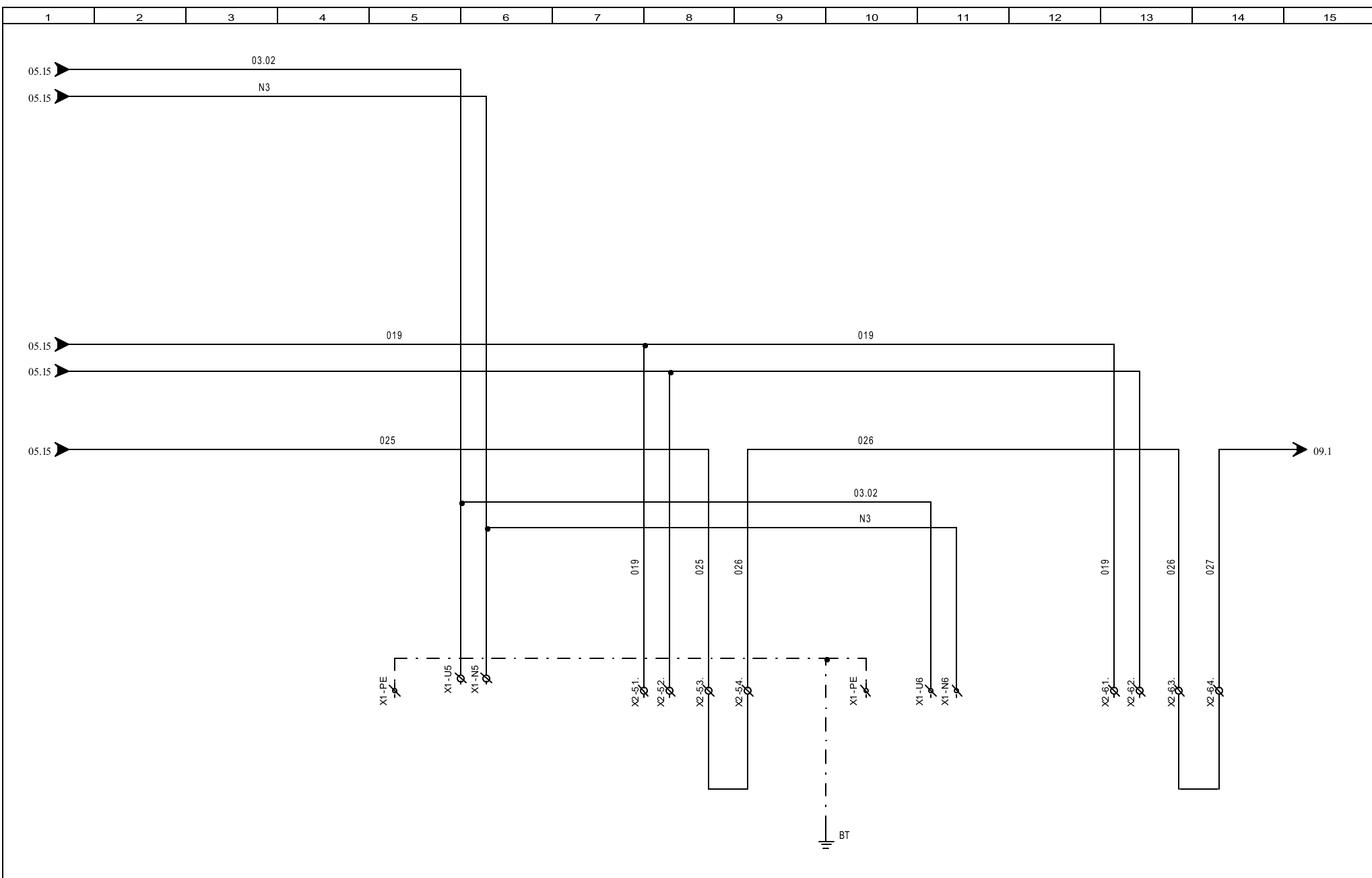
REFRION
a better innovation

PROJECT: X.EC . U . . 1606.F1.V230F1H50	SHEET 04
INTERNAL ORDER: 04806310	OF 16
CUSTOMER: 0480	CUSTOMER ORDER:
TITLE: Power circuit	
DESIGNER: E.A.	DATE: 12/09/2016

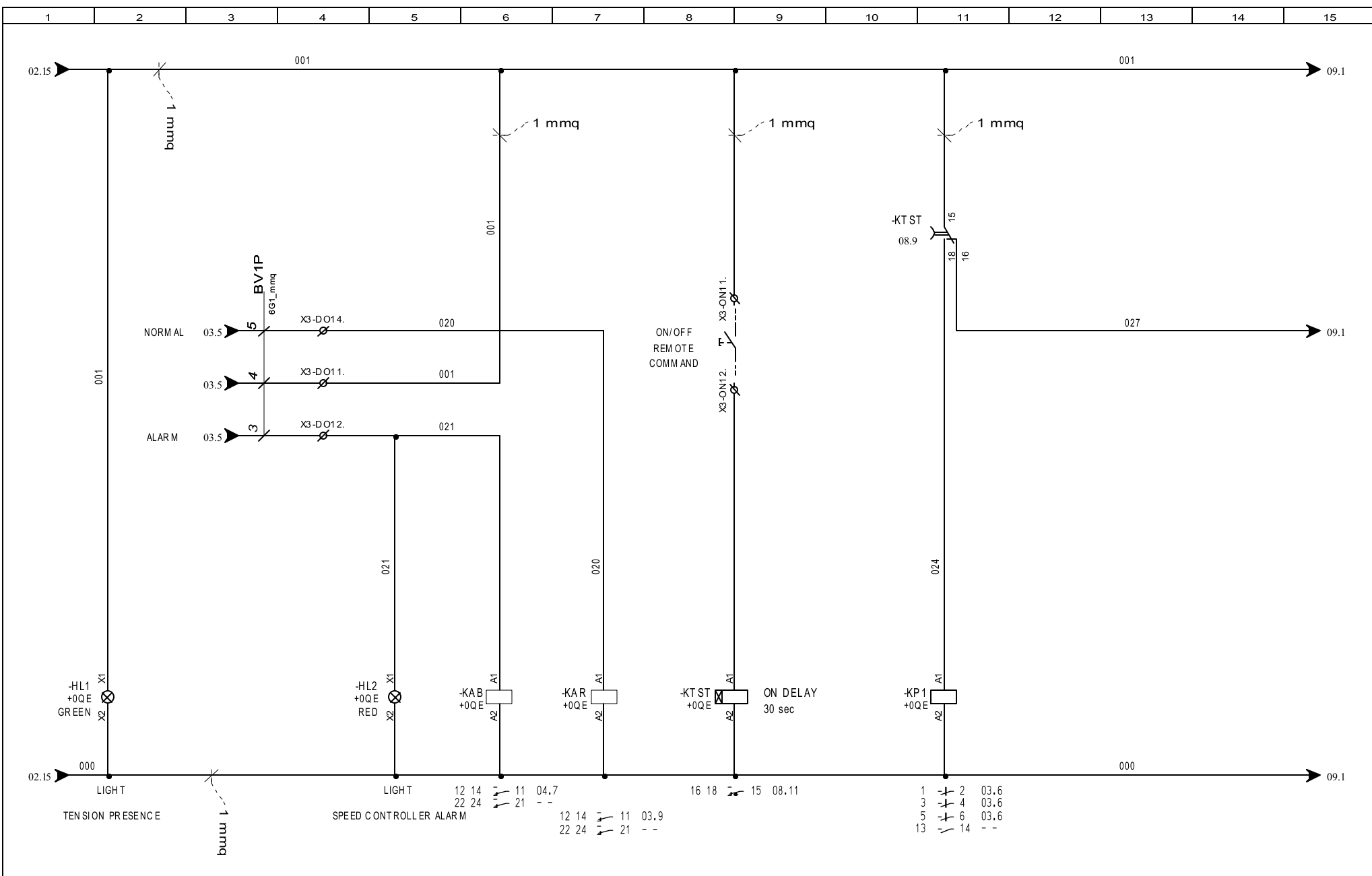
03◀▶05



			 a better innovation	PROJECT: X.EC . U . . 1606.F1.V230F1H50		SHEET 05		
				INTERNAL ORDER: 04806310		OF 16		
				CUSTOMER: 0480		CUSTOMER ORDER:		
				TITLE: Power circuit		04◀▶06		
				DESIGNER: E.A.		DATE: 12/09/2016		
REV.	DATE	SIGN.	MODIFICATION					



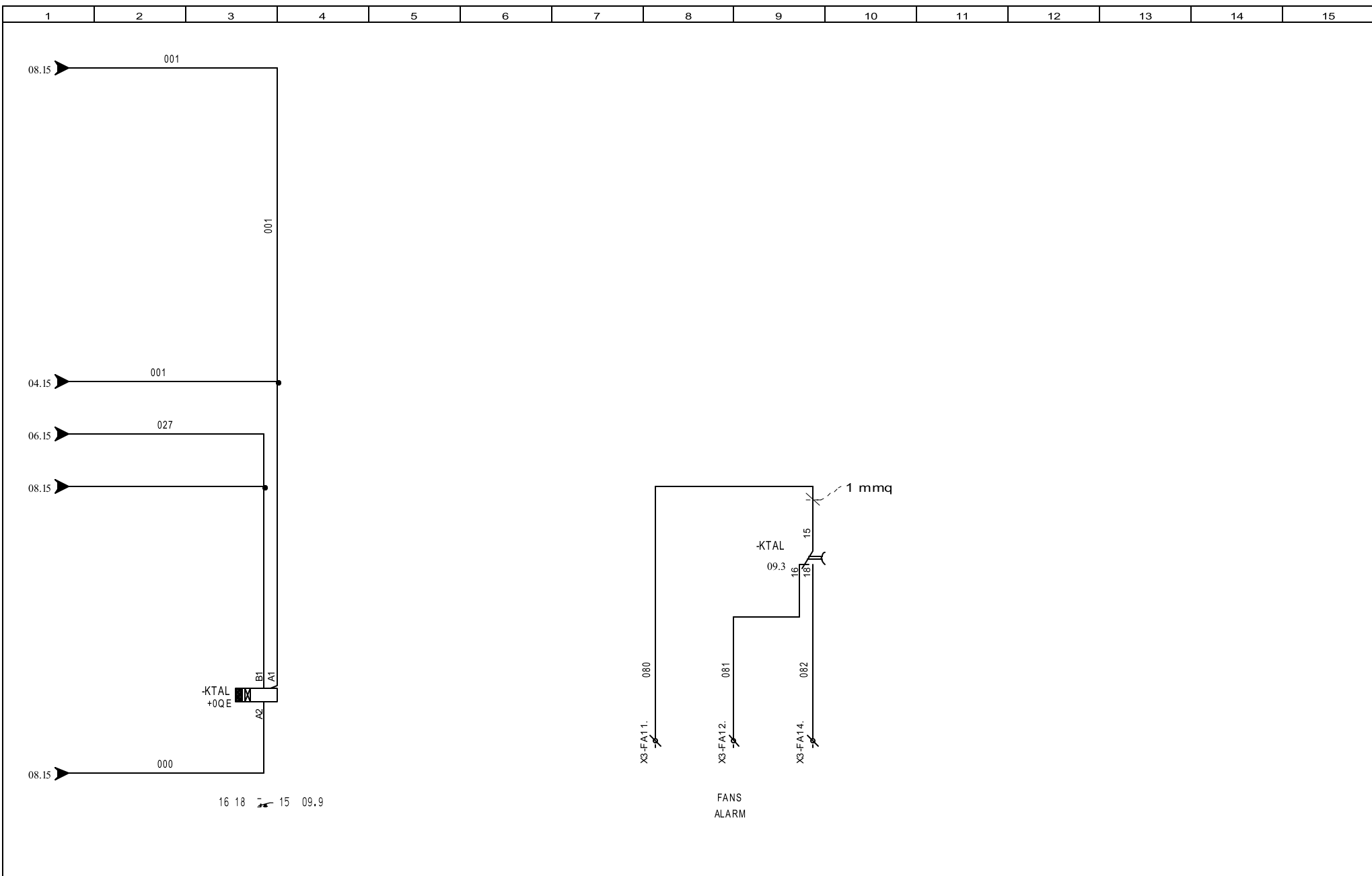
					PROJECT: X.EC . U . . 1606.F1.V230F1H50		SHEET 06	
					INTERNAL ORDER: 04806310		OF 16	
					CUSTOMER: 0480		CUSTOMER ORDER:	
					TITLE: Power circuit		05◀▶08	
REV.	DATE	SIGN.	MODIFICATION		DESIGNER: E.A.		DATE: 12/09/2016	



1	03/02/2010		
REV.	DATE	SIGN.	MODIFICATION

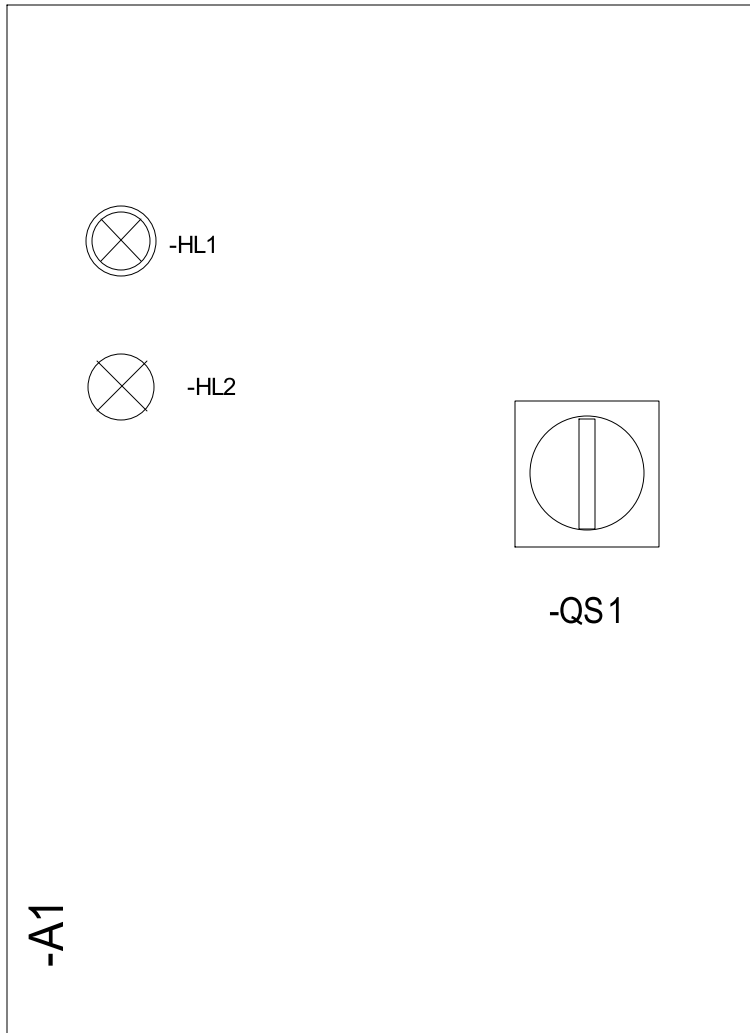
REFRION
a better innovation

PROJECT:	X.EC . U . . 16 . . . 06.F1.V230F1H50	SHEET	08
INTERNAL ORDER:	04806310	OF	16
CUSTOMER:	0480	CUSTOMER ORDER:	
TITLE:	Control circuit		
DESIGNER:	E.A.	DATE:	12/09/2016

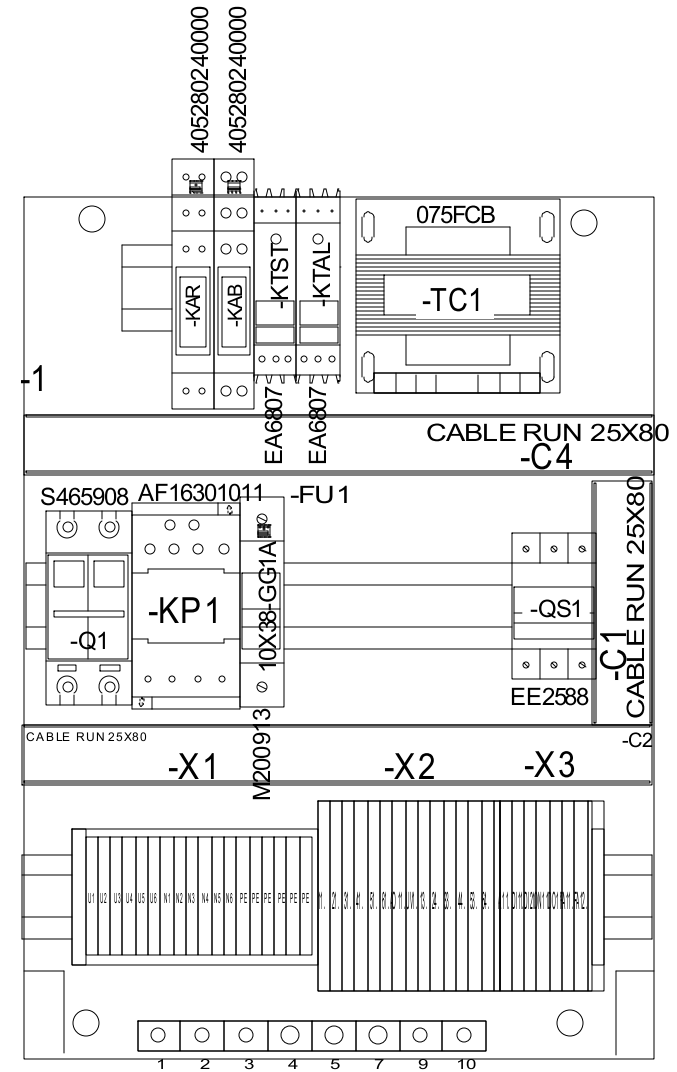


				 a better innovation	PROJECT: X.EC . U . . 1606.F1.V230F1H50		SHEET 09
					INTERNAL ORDER: 04806310		OF 16
					CUSTOMER: 0480	CUSTOMER ORDER:	
					TITLE: Control circuit		
					DESIGNER: E.A.	DATE: 12/09/2016	
1	03/02/2010						08◀▶10
REV.	DATE	SIGN.	MODIFICATION				

DIMENSIONS: 310X425X160



DOOR

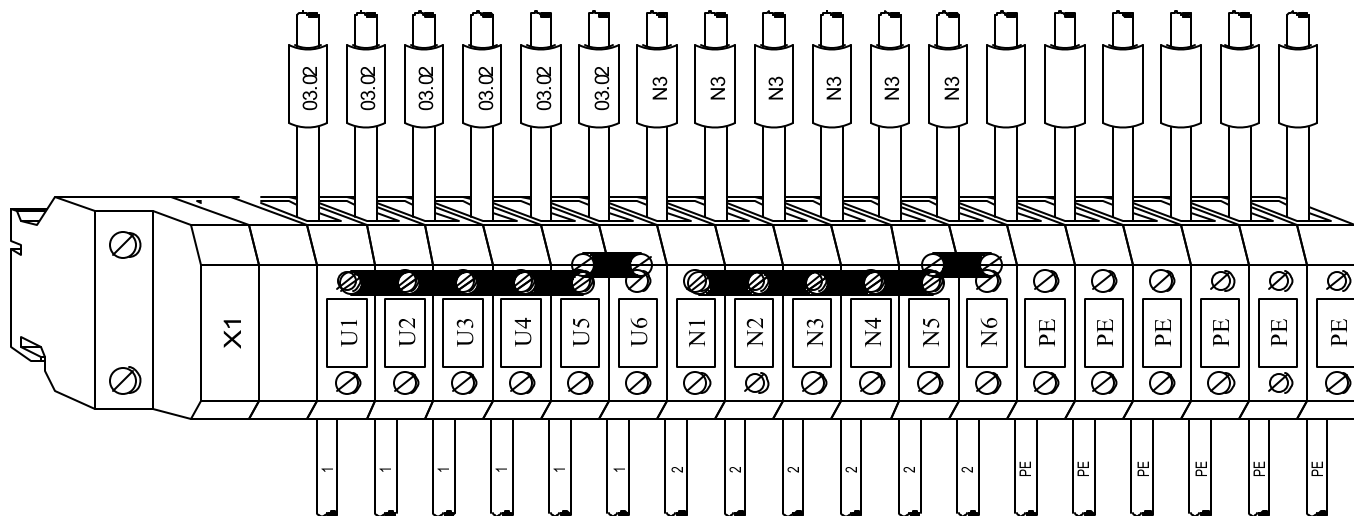


ELECTRICALBOARD PLATE

REV.	DATE	SIGN.	MODIFICATION

REFRION
a better innovation

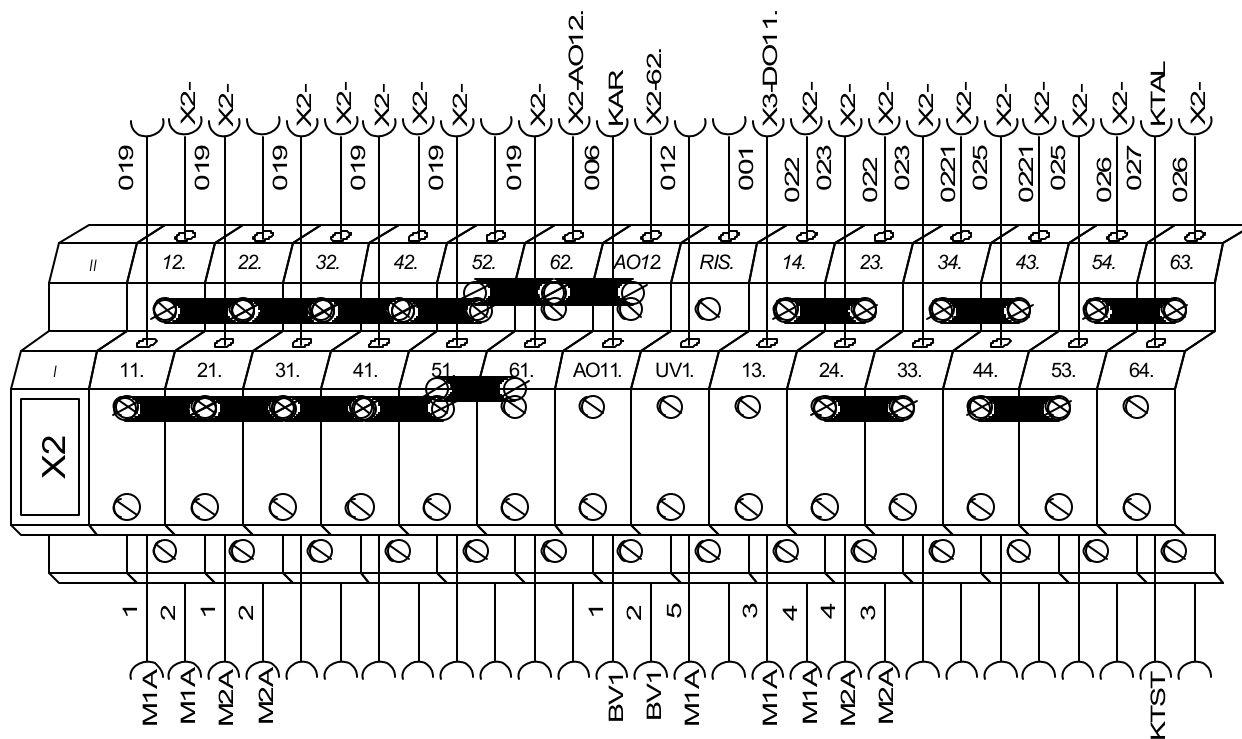
PROJECT: X.EC . U . . 16 . . . 06.F1.V230F1H50	SHEET 10
INTERNAL ORDER: 04806310	OF 16
CUSTOMER: 0480	CUSTOMER ORDER:
TITLE: Layout	09◀▶
DESIGNER: E.A.	DATE: 12/09/2016



REV.	DATE	SIGN.	MODIFICATION

REFRION
a better innovation

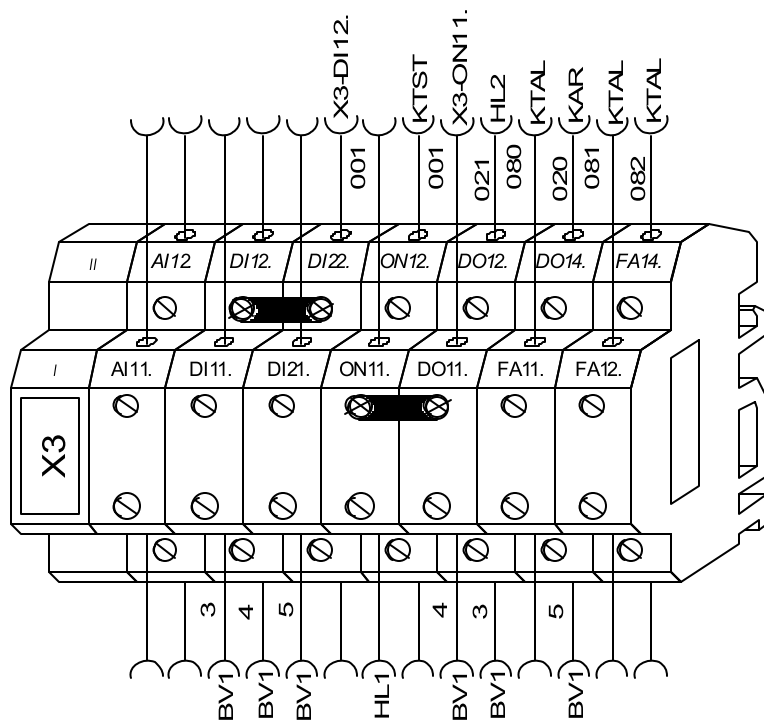
PROJECT: X.EC . U . . 1606.F1.V230F1H50	SHEET 11
INTERNAL ORDER: 04806310	OF 16
CUSTOMER: 0480	CUSTOMER ORDER:
TITLE: Terminal board: X1	◀▶12
DESIGNER: E.A.	DATE: 12/09/2016



REV.	DATE	SIGN.	MODIFICATION

REFRION
a better innovation

PROJECT: X.EC . U . . 1606.F1.V230F1H50	SHEET 12
INTERNAL ORDER: 04806310	OF 16
CUSTOMER: 0480	CUSTOMER ORDER:
TITLE: Terminal board: X2	11◀▶13
DESIGNER: E.A.	DATE: 12/09/2016



REV.	DATE	SIGN.	MODIFICATION

REFRION
a better innovation

PROJECT: X.EC . U . . 1606.F1.V230F1H50	SHEET 13
INTERNAL ORDER: 04806310	OF 16
CUSTOMER: 0480 CUSTOMER ORDER:	12◀▶14
TITLE: Terminal board: X3	
DESIGNER: E.A.	DATE: 12/09/2016



3

7

REV.	DATE	SIGN.	MODIFICATION



PROJECT:	X.EC . U . . 1606.F1.V230F1H50		
INTERNAL ORDER:	04806310		
CUSTOMER:	0480	CUSTOMER ORDER:	
TITLE:	Terminal board : BT		
DESIGNER:	E.A.	DATE:	12/09/2016

Part list

[illegible]

TERMINAL BOARD LIST

Identification	Description	Code	Manufacturer	Location	Amount	POSITION
BT-1	GROUND BAR	04180095	CON	0QE	1	14.3
BT-10	GROUND BAR	04180095	CON	0QE	1	14.7
BT-2	GROUND BAR	04180095	CON	0QE	1	14.3
BT-3	GROUND BAR	04180095	CON	0QE	1	14.4
BT-4	GROUND BAR	04180095	CON	0QE	1	14.4
BT-5	GROUND BAR	04180095	CON	0QE	1	14.5
BT-7	GROUND BAR	04180095	CON	0QE	1	14.5
BT-9	GROUND BAR	04180095	CON	0QE	1	14.6
P1	FBS 2,5 BRIDGE 2	3030161	PHOENIX	0QE	1	12.4
P10	FBS 2,5 BRIDGE 5	3030190	PHOENIX	0QE	1	12.2
P11	FBS 2,5 BRIDGE 5	3030190	PHOENIX	0QE	1	12.2
P12	FBS 2,5 BRIDGE 2	3030161	PHOENIX	0QE	1	11.8
P13	FBS 2,5 BRIDGE 5	3030190	PHOENIX	0QE	1	11.6
P14	FBS 2,5 BRIDGE 2	3030161	PHOENIX	0QE	1	11.5
P15	FBS 2,5 BRIDGE 5	3030190	PHOENIX	0QE	1	11.4
P2	FBS 2,5 BRIDGE 2	3030161	PHOENIX	0QE	1	13.4
P3	FBS 2,5 BRIDGE 2	3030161	PHOENIX	0QE	1	13.3
P4	FBS 2,5 BRIDGE 2	3030161	PHOENIX	0QE	1	12.9
P5	FBS 2,5 BRIDGE 2	3030161	PHOENIX	0QE	1	12.8
P6	FBS 2,5 BRIDGE 2	3030161	PHOENIX	0QE	1	12.7
P7	FBS 2,5 BRIDGE 2	3030161	PHOENIX	0QE	1	12.7
P8	FBS 2,5 BRIDGE 2	3030161	PHOENIX	0QE	1	12.8
P9	FBS 2,5 BRIDGE 3	3030174	PHOENIX	0QE	1	12.5
X1-	CLIP FIX	3022276	PHOENIX	0QE	1	11.3
X1-	D-ST 2,5	3030417	PHOENIX	0QE	1	11.11
X1-N1	ST 2,5	3031212	PHOENIX	0QE	1	11.6
X1-N2	ST 2,5	3031212	PHOENIX	0QE	1	11.6
X1-N3	ST 2,5	3031212	PHOENIX	0QE	1	11.7
X1-N4	ST 2,5	3031212	PHOENIX	0QE	1	11.7
X1-N5	ST 2,5	3031212	PHOENIX	0QE	1	11.8
X1-N6	ST 2,5	3031212	PHOENIX	0QE	1	11.8
X1-PE	ST 2,5 PE	3031238	PHOENIX	0QE	1	11.8
X1-PE	ST 2,5 PE	3031238	PHOENIX	0QE	1	11.9
X1-PE	ST 2,5 PE	3031238	PHOENIX	0QE	1	11.10
X1-PE	ST 2,5 PE	3031238	PHOENIX	0QE	1	11.11
X1-U1	ST 2,5	3031212	PHOENIX	0QE	1	11.3
X1-U2	ST 2,5	3031212	PHOENIX	0QE	1	11.4
X1-U3	ST 2,5	3031212	PHOENIX	0QE	1	11.4
X1-U4	ST 2,5	3031212	PHOENIX	0QE	1	11.5
X1-U5	ST 2,5	3031212	PHOENIX	0QE	1	11.5

				REFRION a better innovation	PROJECT: X.EC . U . . 16 . . .06.F1.V230F1H50		SHEET 16	
					INTERNAL ORDER: 04806310			
					CUSTOMER: 0480	CUSTOMER ORDER:	OF 16	
					TITLE: Terminal board list		15◀▶17	
REV.	DATE	SIGN.	MODIFICATION		DESIGNER: E.A.			DATE: 12/09/2016

TERMINAL BOARD LIST

[illegible]

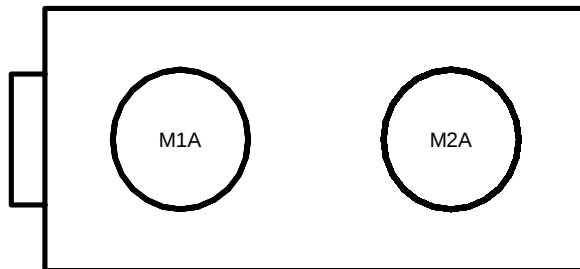
					PROJECT: X.EC . U . . 1606.F1.V230F1H50	SHEET 17
					INTERNAL ORDER: 04806310	OF 16
					CUSTOMER: 0480 CUSTOMER ORDER:	
					TITLE: Terminal board list	
REV.	DATE	SIGN.	MODIFICATION		DESIGNER: E.A.	DATE: 12/09/2016

COMPONENTS DESCRIPTION

COMPONENT			
Fan	n.	2	
Model	EBM-PAPST		

3504221AssVGB E-LX80 Ø 800 art.106AW Ve.A3G800-BG95-21 Gr.106FG0566 Bo.106FB1213 RAL9002 t -25°C 60°C

	NOMINAL DATA	WORKING POINT DATA		
Frequenze	50	[Hz]		
Vn	230	[Vac]	Reg.%	90
In	3,3	[A]	Ib	1,91 [A]
Pn	0,75	[kW]	Pb	0,43 [kW]
Cos(φ)	0,99		Cos(φ)	0,56
Fan speed	730	[rpm]	UpM	657 [rpm]
Tcr	-25\$60	[°C]		
Protection class	IP55			



REFRION
a better innovation