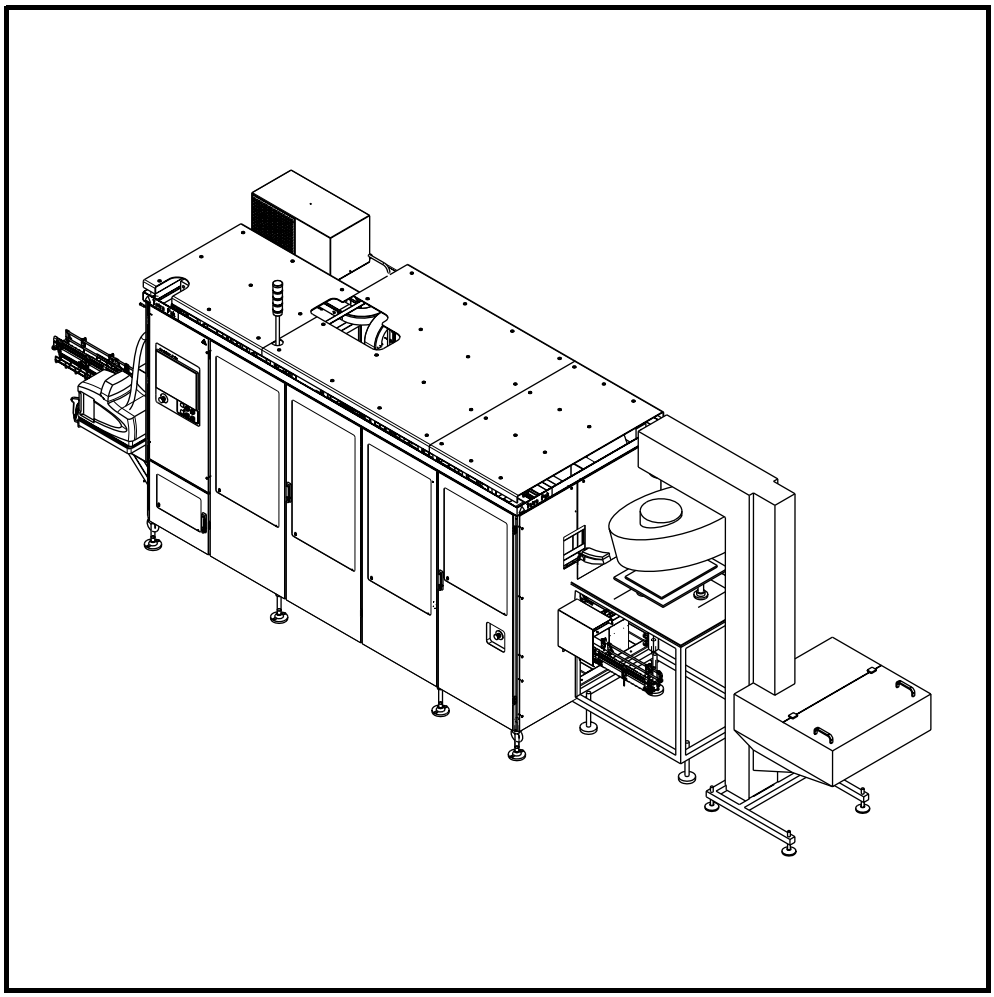
EM

Electrical Manual

CAP 30/Flex

662950-0100

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WARNING

Read and follow all safety precautions before working on or near this equipment.

Read all safety precautions throughout this manual and on safety signs attached to this equipment. Failure to follow all safety precautions could result in death or serious injury.

Tetra Pak

Doc. No. EM-2852921-0101

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The content of this manual is in accordance with the design and construction of the machine or equipment at the time of publishing. Tetra Pak reserves the right to introduce design modifications without prior notice.

This document was produced by:

Tetra Pak Carton Ambient S.p.A
Via Delfini 1
41100 MODENA
Italy

Additional copies can be ordered from Tetra Pak Parts or the nearest Tetra Pak office. When ordering additional copies, always provide the document number. This can be found in the machine specification document. It is also printed on the front cover and in the footer on each page of the manual.

Doc. No. EM-2852921-0101

Issue 2006-11

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This manual is valid for:

Series No./ Machine No. Sign.

EM

Electrical Manual

CAP 30/Flex
662950-0100

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A list of all optional equipment, optional kits, and rebuilding kits that this manual is valid for is found on the next page.

i Introduction

ii Safety Precautions

1 Electrical System Description

2 Document List

3 Position Summary

4 Circuit Diagrams

5 Line Summary

6 Cabinet Terminal Summary

7 Terminal Strip Overview

8 Cable Connection List

9 Mains Connection

10 Drawing Remarks

11 Engineering Change Description

12 Component Location

13 Other Information

14 Program Documents

Doc. No. EM-2852921-0101

Issue 2006-11

Tetra Pak

Tetra Pak Carton Ambient S.p.A

Valid for:

TBA1000 Sq StreamCap
TBA 1000 S
TBA 1500 S SlimCap
TGA 1000 Sq StreamCap
TPA 500 Sq
TPA 750 Sq
TPA 1000 Sq StreamCap

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i Introduction

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This chapter contains basic information about this manual and the related Tetra Pak equipment.

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Support and Feedback . . . . . i - 8

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Outside the Electrical Cabinet . . . . . i - 21

Example 5: How to Find Electrical Components Using the SPC. . . . . i - 22

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Manual Information

Tetra Pak recommends reading all delivered manuals carefully. Make sure that the delivered manuals are available to personnel who operate or maintain the equipment.

It is important to keep this manual for the lifetime of the equipment and to pass the manual on to any subsequent holder or user.

Tetra Pak will not be held responsible for any damage to the equipment caused by not following the instructions given in this manual.

Delivered Manuals

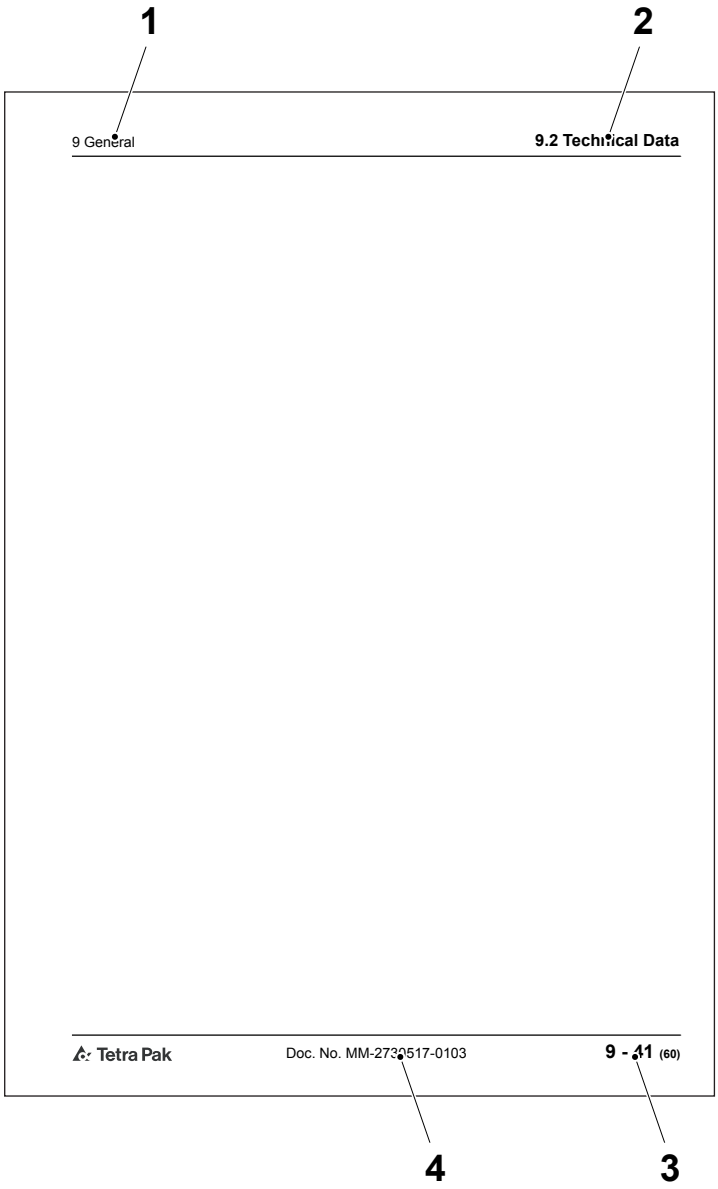
Manuals delivered with this equipment:

- The Conversion Manual (CM) provides technicians with information on converting the equipment between different production modes.
- The Electrical Manual (EM) provides technicians with information about the equipment's electrical system.
- The Installation Manual (IM) provides technicians with information required to safely install the equipment.
- The Maintenance Manual (MM) provides technicians with information on maintaining the equipment.
- The Operation Manual (OM) manual provides the operator with information on handling and operating the equipment before, during, and after production.
- The Spare Parts Catalogue (SPC) provides the information necessary to order spare parts from Tetra Pak
- The Technical Manual (TeM)
  - provides technicians with information required to safely install the equipment
  - provides technicians with information on maintaining the equipment
  - provides technicians with information about the machine's/ equipment's electrical system
- provides the information necessary to order spare parts from Tetra Pak.

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Page Layout

Every main page in a manual contains a header and a footer. The page header contains the chapter name (1) and the section name (2). The page footer contains the page number (3), and the document number (4). See also the Page Numbering section



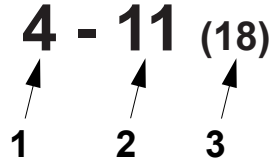
1 Chapter name
2 Section name
3 Page number
4 Document number

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Page Numbering

A page number has three parts:

- chapter number (1)
- consecutive page number (2) within the chapter
- total number of pages (3) in the chapter.



1 Chapter number
2 Consecutive page number
3 Total number of pages

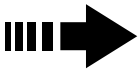
Typographical Conventions

Controls on the operator panel, emergency stop devices, and program steps are printed in CAPITAL LETTERS.

Cross-references are underlined.

Symbols

Symbols used in illustrations.

	A pointer arrow indicates the position of an object.
	A zoom arrow indicates that an object view is enlarged. The arrow points towards the enlarged view of the object.
	A rotation movement arrow indicates rotational movement of an object. The arrow points in the direction of rotation.
	A straight movement arrow indicates movement of an object. The arrow points in the direction of movement.

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Machine Introduction

Intended Use of the Equipment

The intended use of this Tetra Pak equipment is to apply a closure onto a package.

Tetra Brik Aseptic Slim packages must have opening tabs. The opening tabs are applied by a PullTab unit which is incorporated in to the filling machine. All other packages must have pre-laminated holes.

All other use is prohibited. Tetra Pak will not be held responsible for injury or damage if the equipment is used for any other purpose

Manufacturer

This Tetra Pak equipment has been manufactured by

Tetra Pak Carton Ambient S.p.A

Via Delfini 1

41100 MODENA

Italy

Support and Feedback

If you encounter problems when operating this equipment or have other inquiries, comments, or suggestions for improvement, contact Tetra Pak.

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Identification

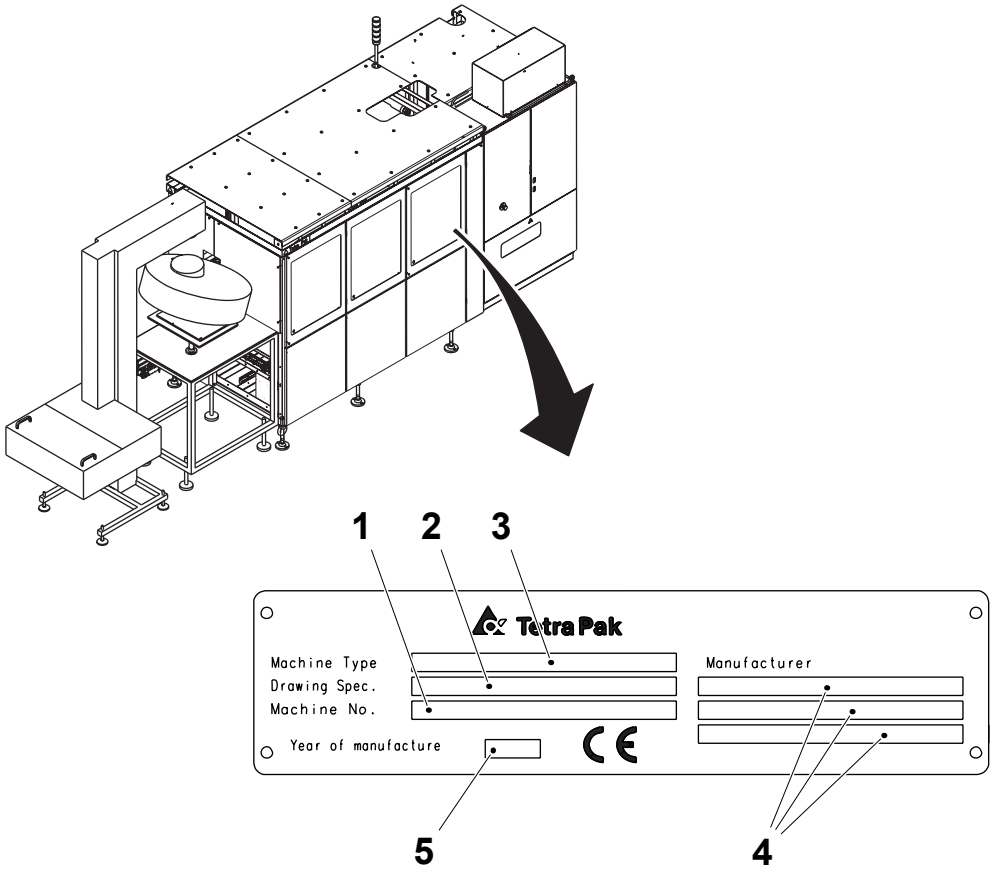
CE Classification

This equipment complies with the basic health and safety regulations of the European Economic Area (EEA).

Machine Plate

The illustration below shows an example of the machine plate and its location on the equipment. The machine plate carries data needed when contacting Tetra Pak concerning this specific equipment.

Make sure that the equipment data in the front pages of this manual corresponds to the machine plate data and the machine specification.

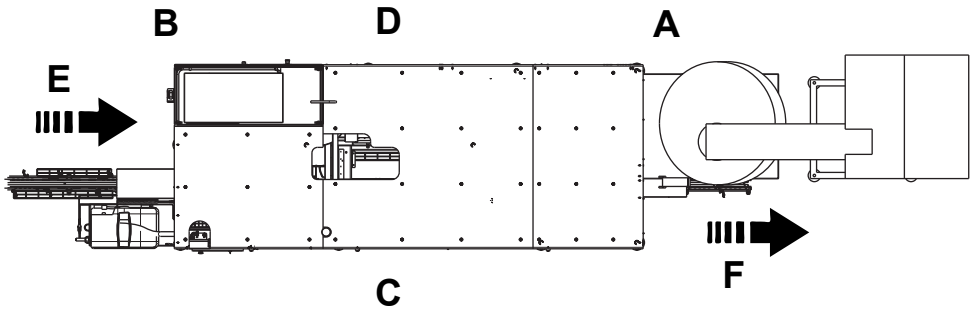


1 Machine Number
2 Drawing Specification
3 Machine Type
4 Manufacture
5 Year of Manufacture

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Orientation

The illustration below shows the orientation of the equipment. This orientation information will be used throughout this manual. The arrows indicate the flow of material.



A Front
B Back
C Left
D Right
E Infeed
F Outfeed

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Hygiene

Packaging Material

Avoid microbiological contamination of the packaging material:

- Always protect your packaging material against contamination. Do not let the caps come into contact with contaminated areas. Only use caps direct from their packaging material.
- Except when filling the cap sorter with caps, always keep the cap-sorter magazine door closed. Keep the transparent door panels clean.
- Except when filling the cap sorter with caps, always keep the cap-sorter hopper door closed.
- Always keep the doors to the applicator room (area) closed. To prevent contamination via air streams, never open a window when the machine is in production.
- Never clean the floors or the machine in the applicator room (area) when the machine is in production.
- Compressed air used for cleaning purposes is to be used only for cleaning filters and should only be used outside of the applicator room (area).
- Disinfect your hands before touching anything that may come into contact with the product. Use code H disinfectant. See the Technical Data chapter in the Maintenance Manual.
- Keep your hands clean.
- Always wear some type of hair protection (cap or hairnet) and clean clothes (preferably white).
- Do not wear a watch, ring, necklace, earrings, or any other exposed jewellery.

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Abbreviations and Terminology

Abbreviation/ Terminology	Meaning	Translation
ANSI	American National Standards Institute	
APU	Applicator Unit	
CAP	Cap Applicator	
CE	Conformité Européene	
COMMs	Communications	
Cont'd	Continued	
CSU	Cap Sorter Unit	
Doc.	Document	
EEA	European Economic Area	
EM	Electrical Manual	
HMGU	Hotmelt Gun Unit	
IM	Installation Manual	
IPU	Infeed Package Unit	
ISO	International Organization for Standardization	
MM	Maintenance Manual	
No.	Number	
OE	Optional Equipment	
OM	Operation Manual	
PE	Protective Earth	
Pos	Position	
psi	Pound per square inch	
PTU	Package Transfer Unit	
PVC	Polyvinyl chloride	
S	Slim (package shape)	
SPC	Spare Parts Catalogue	
TP	Tetra Pak	
V	Volt	

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How to Use This Electrical Manual

General

The chapters following Introduction and Safety Precautions are divided as follows.

Chapter	Name	Drawing No.
1	Electrical Systems Description	--
2	Document List	xxxxxxx-0001
3	Position Summary	xxxxxxx-0002
4	Circuit Diagrams	xxxxxxx-0003
5	Line Summary	xxxxxxx-0004
6	Cabinet Terminal Summary	xxxxxxx-0005
7	Terminal Strip Overview	xxxxxxx-0006
8	Cable Connection List	xxxxxxx-0007
9	Mains Connection	xxxxxxx-0008
10	Drawing Remarks	xxxxxxx-0098
11	Engineering Change Description	xxxxxxx-0099
12	Component Location	xxxxxxx-0000
13	Other Information, for example - Bill of Materials - Fuse Panel	-
14	Program Documents	-

The Document List chapter is a table of contents for the chapters 3 to 9, listing all drawings included.

In the Circuit Diagrams, the first pages are reserved for distribution terminals and the last pages can be used for pre-connected cables. Pre-connected cables are connected to spare terminals and are reserved for future use.

The diagrams in the Mains Connection chapter shows how the machine should be connected to the local supply, the dimensions of the connection cable, and the connection of the matching transformer, when used.

The Drawing Remarks chapter lists the drawing remarks indicated with a number in the drawing.

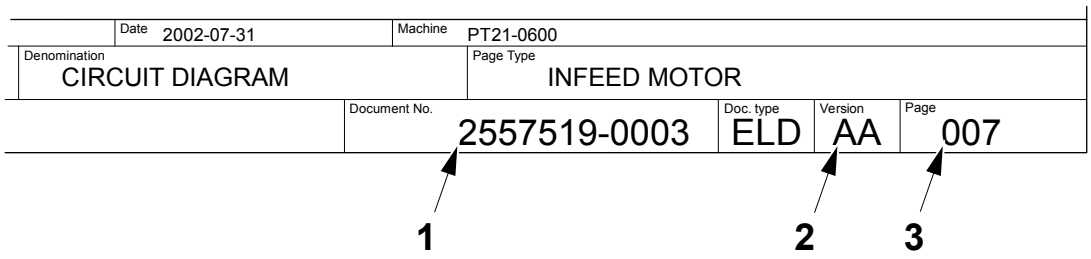
The Program Documents chapter contains the PLC programs for this equipment.

(Cont'd)

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(Cont'd)

The documents and drawings are identified by drawing number (1), version code (2), and page number (3). The page number is the consecutive numbering of the pages that belong to the main number and is used as a reference in the diagrams.

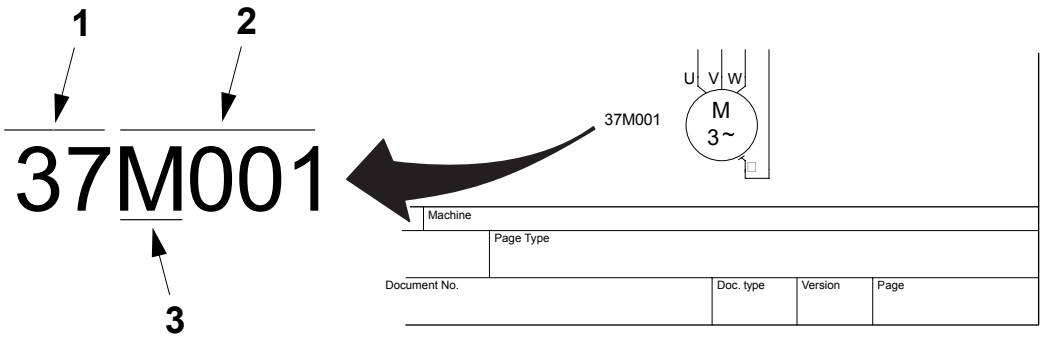


1 Drawing number
2 Version code
3 Page number

Reference Designation

Components are identified by the reference designation, defined by a function code (1), and a component code (2). For function codes, see List of Function Codes section.

The object code for the component level (3) refers to the purpose or task of the current object. The letter is in accordance with international standards. Examples: Code P for components that present information, such as an alarm lamp, a clock, or a volt meter. Code M for components that provide mechanical energy such as an actuator, or an electric motor.



1 Function code
2 Component code
3 Object code, component level

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List of Function Codes

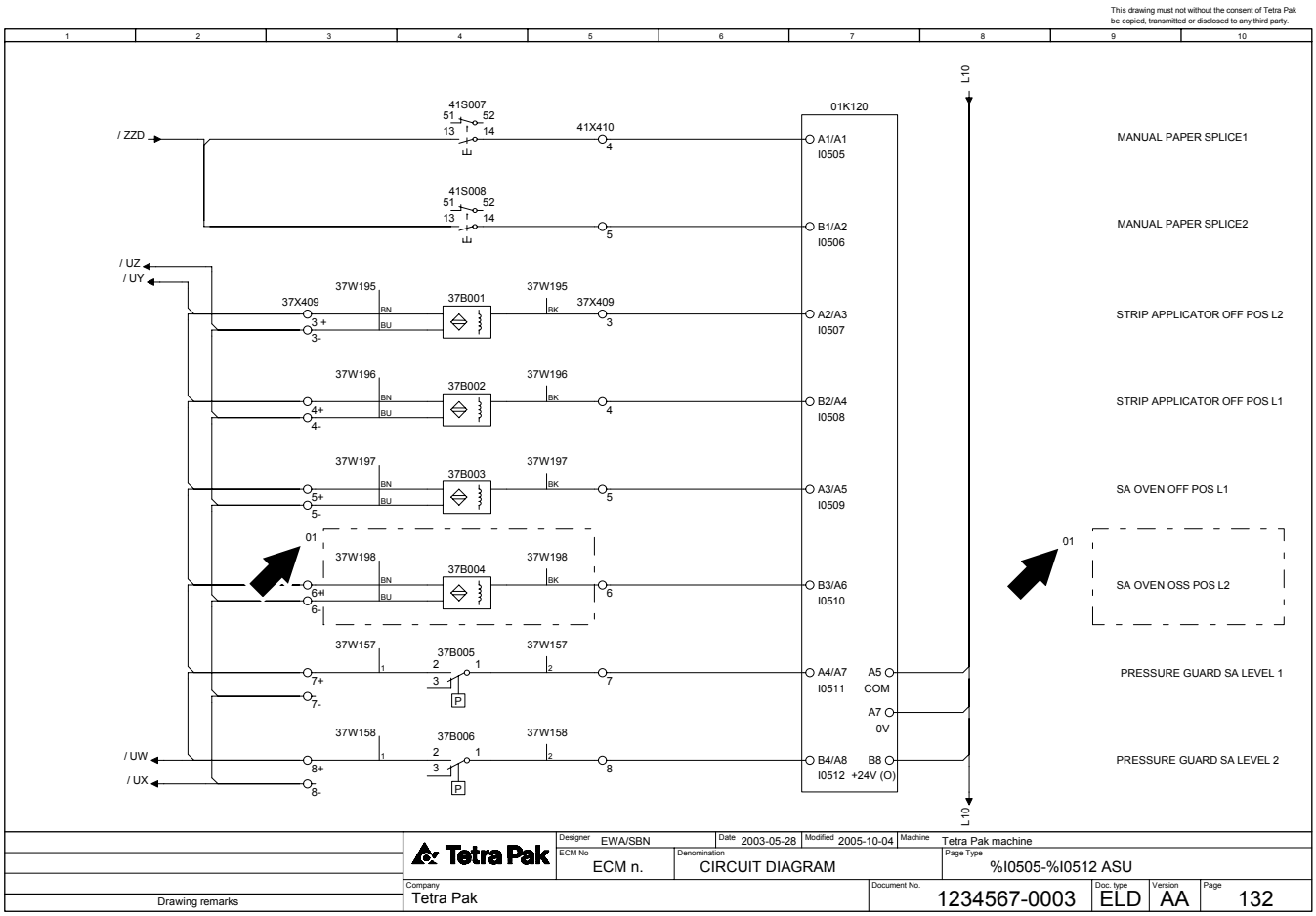
Function codes for this equipment.

Function Code	Identification
1	SERVICE AND SUPPLY
9	SAFETY
20	INFEED PACKAGE
21	PACKAGE TRANSFER
30	APPLICATOR UNIT
40	HOT MELT GUNS APPLICATOR
50	CAP SORTER
60	RECAP CUT AND FEEDING
70	CAP POSITIONING SYSTEM
81	COMMUNICATION

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Optional Equipment

An optional equipment designation indicates that the component belongs to specific optional equipment. The designation numbers for this equipment are explained in the Drawing Remarks chapter.



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How to Trace an Electrical Component

Start tracing an electrical component by finding the correct list with page and column references to the Circuit Diagram.

Example 1 on pages i-17 to i-18 illustrates how to trace a Line. Use the Line Summary.

Example 2 on page i-19 illustrates how to trace a contactor. Find page references in the Position Summary. The procedure is identical when tracing sensors or other components. For cables, the page references are in the Cable Connection List. The number of spare cores is shown in the cable connection list.

Examples 3 and 4 on pages i-20 to i-21 illustrate how to trace a terminal. Find page references for terminals *in* the electrical cabinet in the Cabinet Terminal Summary, and page references for terminals *outside* the electrical cabinet in the Terminal Strip Overview.

Example 5 on page i-22 illustrates how to locate a component in the Spare Parts Catalogue, SPC.

Example 1: How to Trace a Line

Supply Voltage and Line Connection Order

The supply voltage in the electrical cabinet has power voltage and control voltage designations.

- Power voltage: lines with designations ending with 01 to 09, for example, L03 and L803
- Control voltage: lines with designations ending with 10 to 99, for example, L12 and L812

The line connection order is shown in the Line Summary.

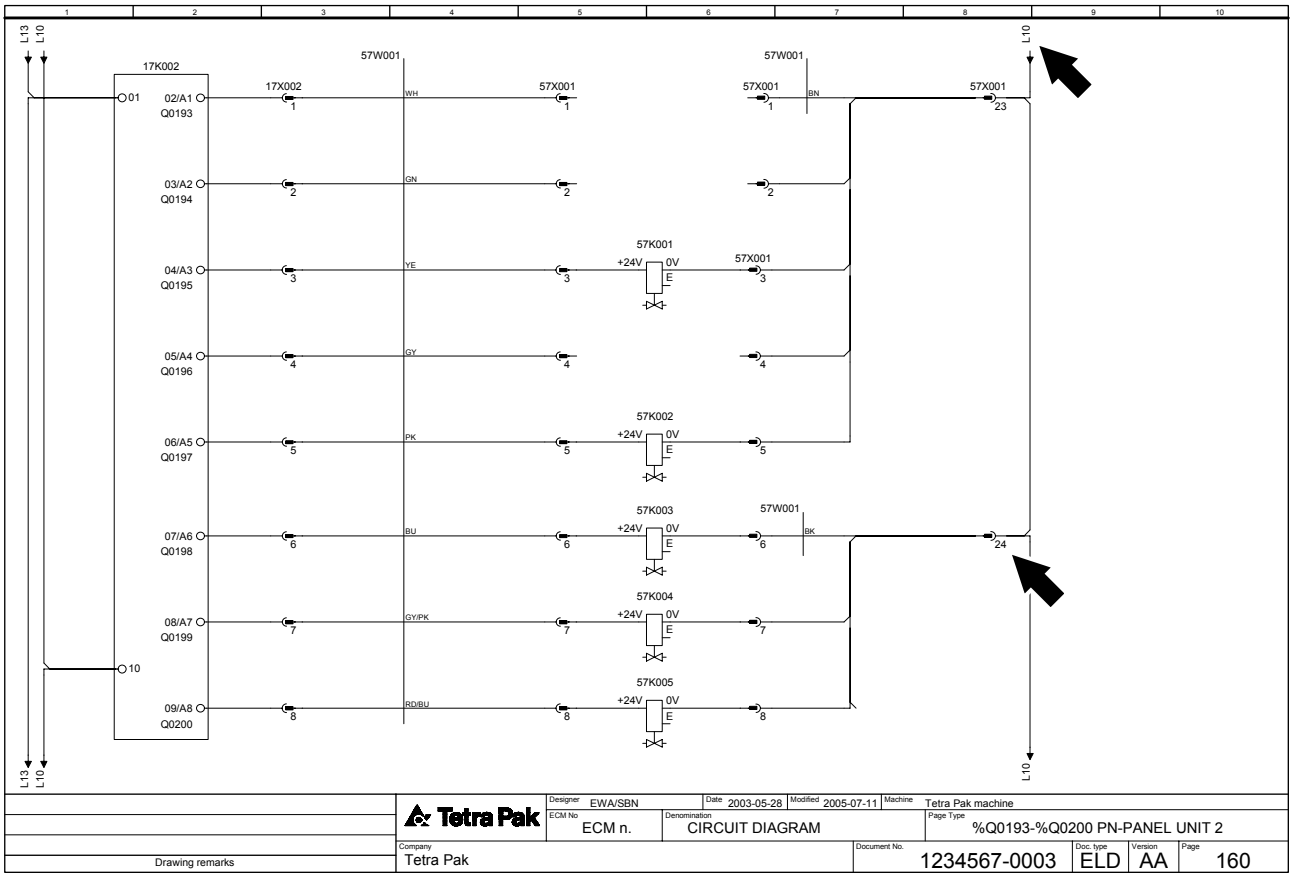
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(Cont'd)

How to Trace a Line

The illustration below shows how to trace line connection L10 from the component terminal 57X001:24 to 57X001:23.



Line summary of 1234567-0003

Line	From	Page.Col.	To	Page.Col.	Area/Color	Opt.
L10	XL010:3	001 .1	17K001:B8	132 .7	0,75/BU	
L10	XL010:4	001 .2	17K002:10	160 .1	0,75/BU	
L10	17K002:10	160 .1	17K004:20	143 .1	0,75/BU	
L10	XL010:5	001 .2	17Q003:A2	143 .7	0,75/BU	
L10	17Q003:A2	143 .7	37Q002:A2	143 .7	0,75/BU	
L10	37Q002:A2	143 .7	57Q001:A2	143 .7	0,75/BU	
L10	XL010:6	001 .2	57X001:23	160 .8	0,75/BU	
L10	57X001:23	160 .8	57X001:24	160 .8	0,75/BU	
L13	XL013:1	002 .6	17K002:01	160 .1	0,75/BU	

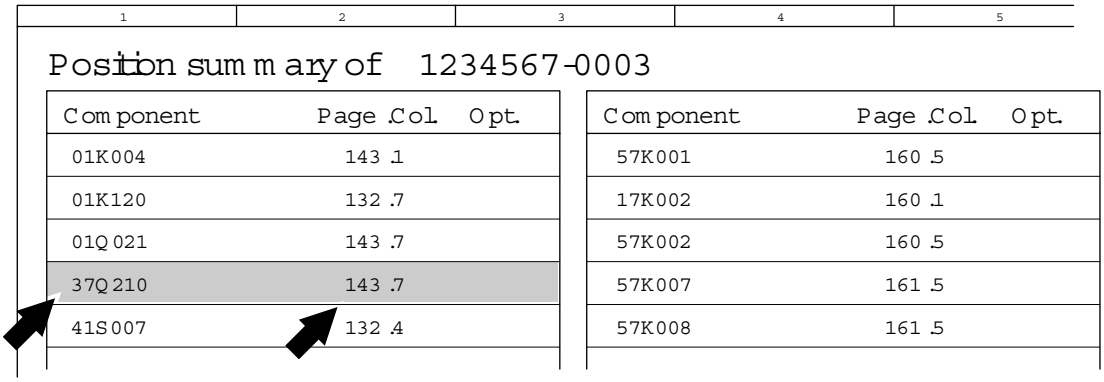
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Example 2: How to Trace a Contactor

The illustration below shows how to trace contactor 37Q210 to page 143, column 7 in the Circuit diagram.

Related contacts are traced with a cross reference to page 005, column 8.

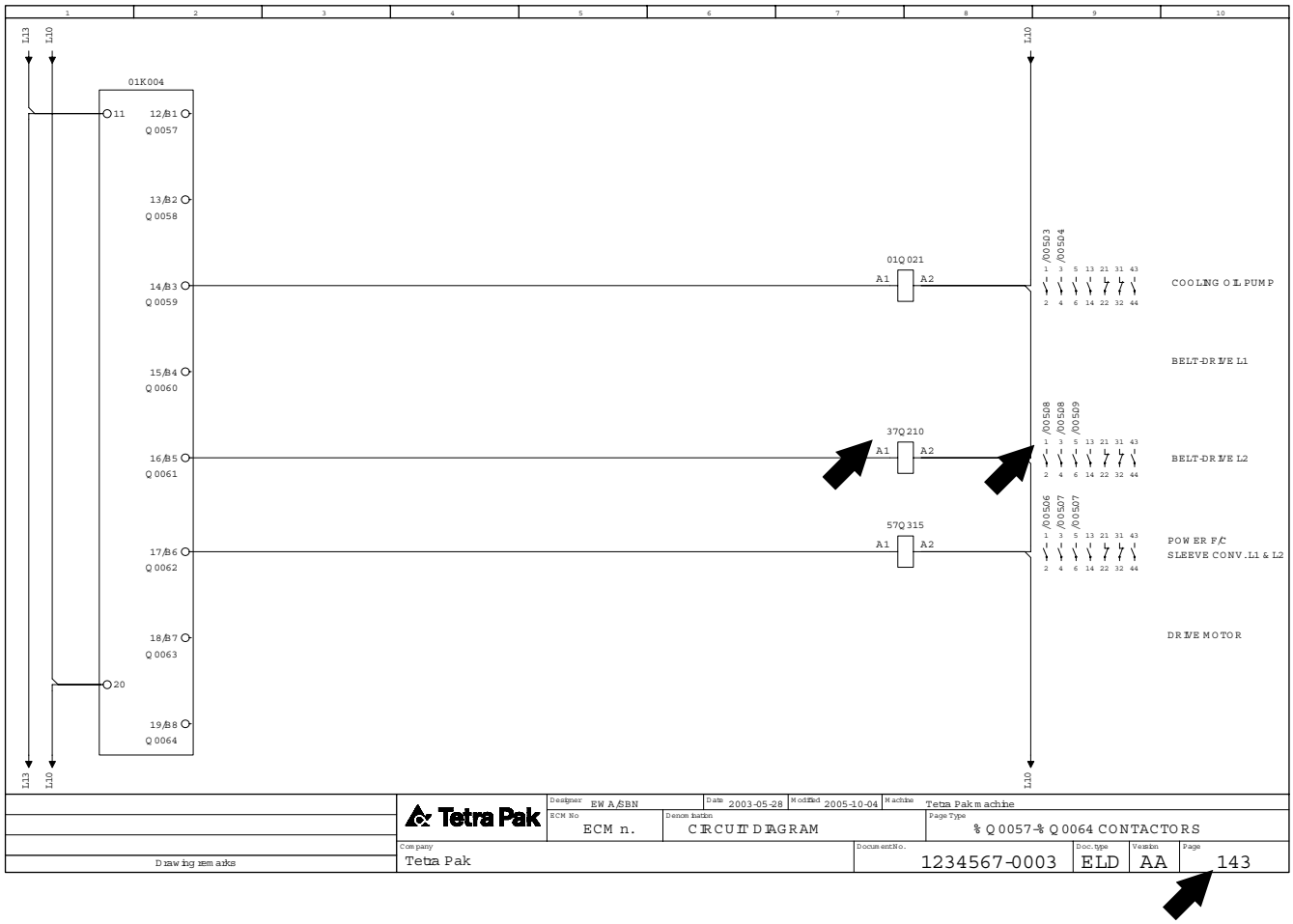
Note! For master and slave components, such as coils and contacts, only the master is reported in the Position Summary. The slave shows the page and column references of the master.



Position summary of 1234567-0003

Component	Page	Col.	Opt.
01K004	143	1	
01K120	132	7	
01Q021	143	7	
37Q210	143	7	
41S007	132	4	

Component	Page	Col.	Opt.
57K001	160	5	
17K002	160	1	
57K002	160	5	
57K007	161	5	
57K008	161	5	

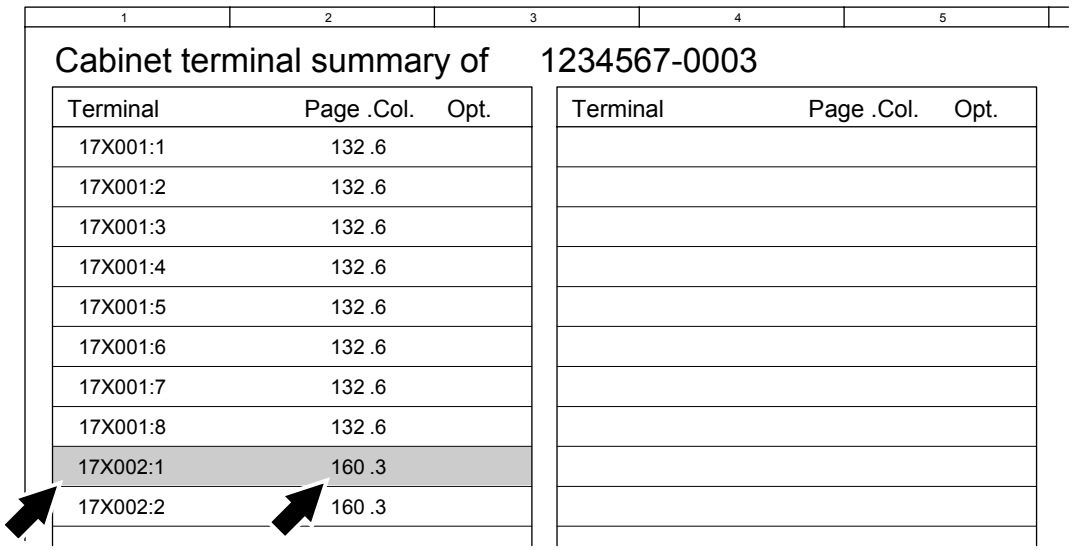


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Example 3: How to Trace a Terminal in the Electrical Cabinet

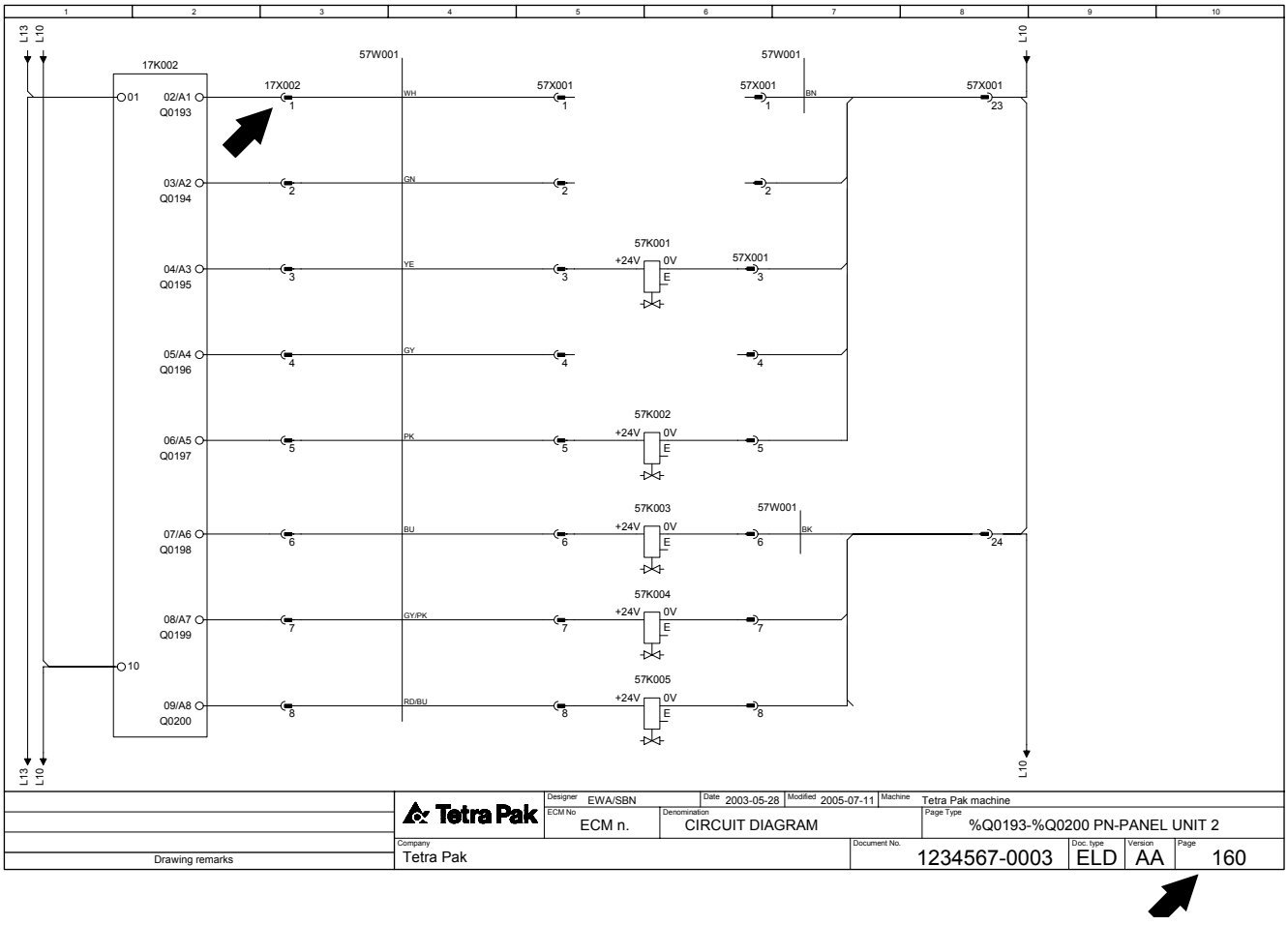
The Cabinet Terminal Summary refers to the page and column where the relevant terminal is to be found.

The illustration below shows how to trace terminal 17X002:1 to page 160, column 3 in the Circuit diagram.



Cabinet terminal summary of 1234567-0003

Terminal	Page .Col.	Opt.	Terminal	Page .Col.	Opt.
17X001:1	132 .6				
17X001:2	132 .6				
17X001:3	132 .6				
17X001:4	132 .6				
17X001:5	132 .6				
17X001:6	132 .6				
17X001:7	132 .6				
17X001:8	132 .6				
17X002:1	160 .3				
17X002:2	160 .3				



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Example 4: How to Trace a Terminal Outside the Electrical Cabinet

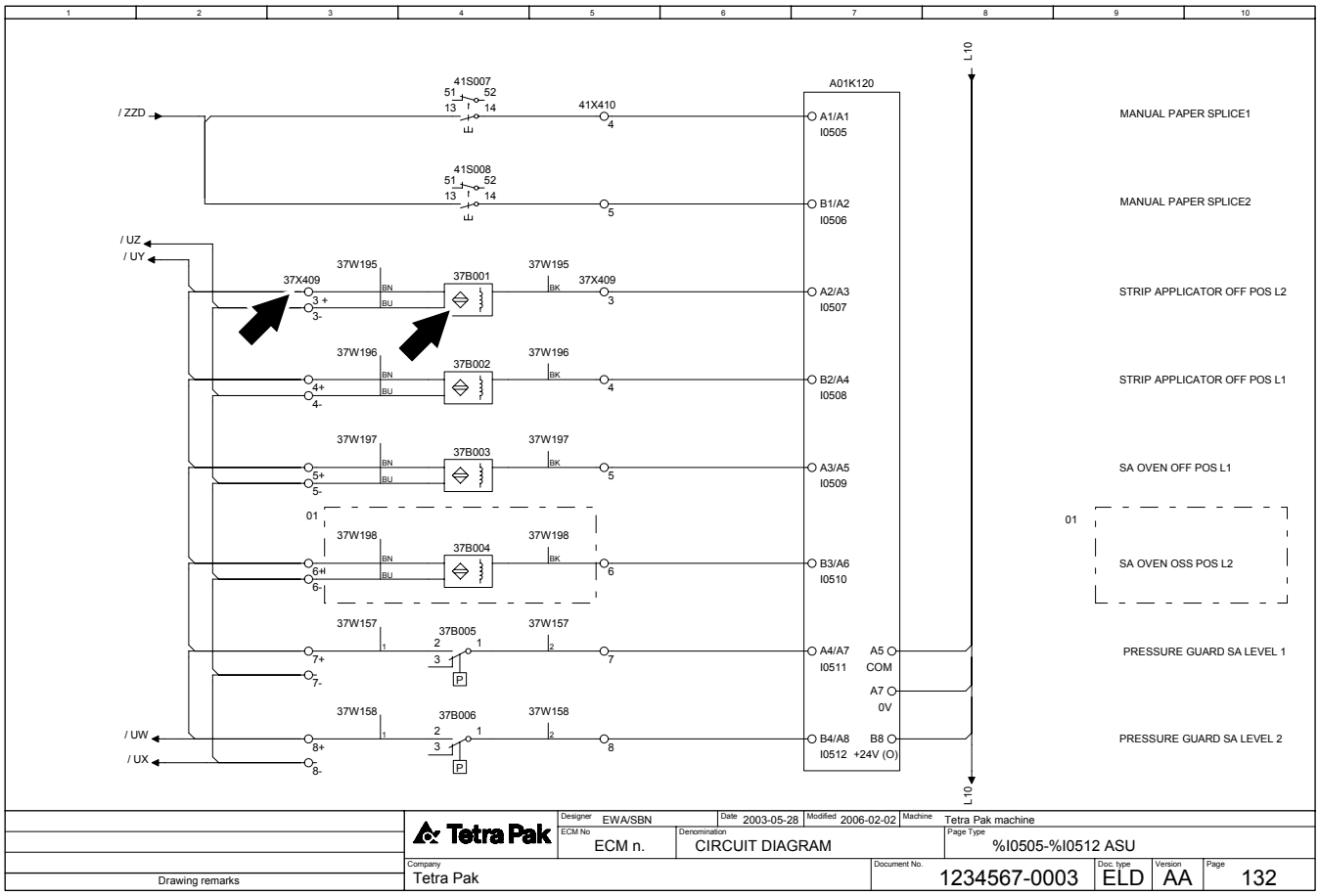
The Terminal Strip Overview refer to the page and column where the relevant terminal is to be found.

The illustration below shows how to trace terminal 37X409:3 to page 132, column 3 in the Circuit diagram. Note the connected component, 37B001.

Terminal strip of 1234567-0003

37X409

From	Cable	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
		1						
		1+						
		1-						
		2						
		2+						
		2-						
01K120:I0507	:3	3		37W195:BK	37B001:	132 .5		STRIP APPLICATOR OFF POS L2
		3 +		37W195:BN	37B001:	132 .3		STRIP APPLICATOR OFF POS L2
		3-		37W195:BU	37B001:	132 .3		STRIP APPLICATOR OFF POS L2
		4+		37W196:BN	37B002:	132 .3		STRIP APPLICATOR OFF POS L1
		4-		37W196:BU	37B002:	132 .3		STRIP APPLICATOR OFF POS L1
01K120:I0508	:4	4		37W196:BK	37B002:	132 .5		STRIP APPLICATOR OFF POS L1
01K120:I0509	:5	5		37W197:BK	37B003:	132 .5		SA OVEN OFF POS L1
		5+		37W197:BN	37B003:	132 .3		SA OVEN OFF POS L1
		5-		37W197:BU	37B003:	132 .3		SA OVEN OFF POS L1
		6-		37W198:BU	37B004:	132 .3		SA OVEN OSS POS L2



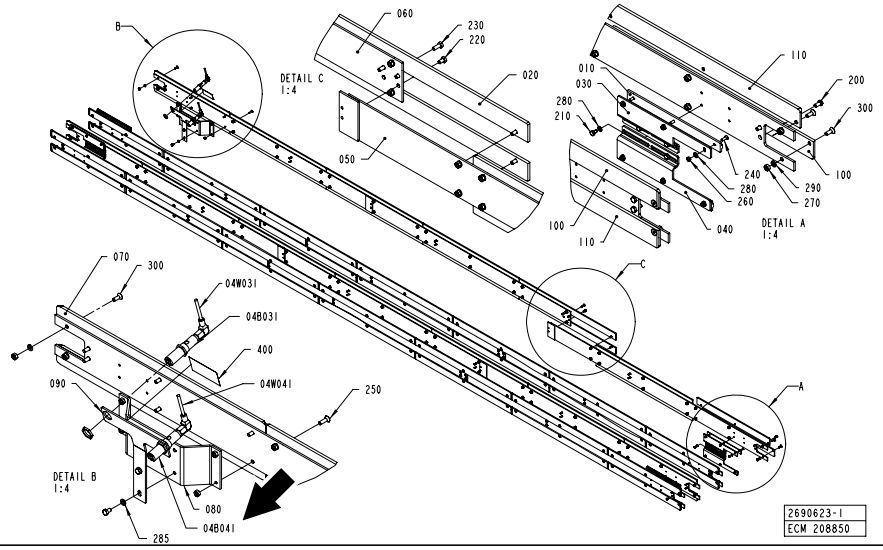
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Example 5: How to Find Electrical Components Using the SPC

The Reference Designation Parts Index in the Spare Parts Catalogue, SPC, is used to locate electrical parts. For SPCs without an Electrical Parts Index, see the Component Location chapter in this manual.

The illustration below shows how to find component 04B041 in the SPC. The Reference Designation Parts Index refers to page 2-5. In the drawing on page 2-4, the position number is the same as the reference designation for the component.

Tetra Pak Used in group: Pos. 020 CHAIN GUIDE Drawing file: 26906234_1_AA.hpgl **2-4** (6)



ECM: 209071 - 50001231
Group number: 2690623-0100
Assembly Drawing: 2690623-1_1_AA
This list covers pages from 2-2 to 2-5

Pos	Part No	UN	Qty	Description	Page No
-					
010	2597877-0000		8	CHAIN GUIDE	
020	2653358-0000		40	CHAIN GUIDE	
030	2653365-0000		4	SUPPORT	
040	2653366-0000		4	SUPPORT	
050	2653367-0000		8	PLATE	
060	2653368-0000		4	PLATE	
070	2653369-0000		8	CHAIN GUIDE	
080	2690632-0000		1	HOLDER	
090	2690633-0000		1	HOLDER	
100	2730969-0000		4	CHAIN GUIDE	
110	2730970-0000		4	CHAIN GUIDE	
200	90458-0072		8	SCREW ISO 7380 S M6X12 A2	
210	312105-0287		16	SCREW M6S ISO4017 M4X8 A470	
220	312105-0364		18	SCREW M6S ISO 4017 M6X10 A480	
230	312105-0368		40	SCREW M6S ISO 4017 M6X16 A480	
240	312155-0291		24	SCREW DIN 7991 MF6S M4X12 A4 70	
250	312155-0370		4	SCREW DIN 7991 MF6S M6X20 A4 70	
260	312605-0312		24	HEXAGON NUT, M6M M4 A280	
270	312605-0316		168	HEXAGON NUT, M6M M6 A280	
280	315105-0146		40	WASHER BRB5,3X10RFR	
285	315105-0153		2	WASHER BRB6,4X12RFR	
290	315[illegible]02-0156		164	LOCK WASHER FBB 6,5	
300	[illegible]1368		164	SCREW DIN 7991 MF6S M6X16 A4 70	
400	[illegible]898		1	WARNING SIGN ISO, LASER RADIATION	
04W041	[illegible]12-0050		1	ACTUATOR/SENSOR CABLE RKWTN 4-225/5M	
04W031	[illegible]312-0050		1	ACTUATOR/SENSOR CABLE RKWTN 4-225/5M	
04B041	90459-5012		1	LASER SENSOR, YD24PA3	
05C041	2690632-0000		1	HOLDER	
05C031	2653367-0000		8	PLATE	
04B031	90459-5012		1	LASER SENSOR, YD24PA3	
05C041	2653369-0000		8	CHAIN GUIDE	
05C031	2653368-0000		4	PLATE	

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Doc No: SPC-654654-0101

Pos	Part No	Description	Page No
A			
09A332	[illegible]59	THERMOCOUPLE CABLE K/PVC/20AWG 2X0,5MM2	1-3, 1-5
03A321	[illegible]3359	THERMOCOUPLE CABLE K/PVC/20AWG 2X0,5MM2	1-3, 1-5
03A322	[illegible]-0030	HEATING ELEMENT, 3000W, 220V	1-3, 1-5
B			
04B041	90459-5012	LASER SENSOR, YD24PA3	2-3, 2-5
01B001	351120-0145	CABLE SILFLEX SIHF 3X2,5 0046020	1-3, 1-5
32B001	90220-2259	THERMOCOUPLE CABLE K/PVC/20AWG 2X0,5MM2	1-3, 1-5
04B031	90459-5012	LASER SENSOR, YD24PA3	2-3, 2-5
C			
05C031	2653367-0000	PLATE	2-3, 2-5
05C041	2690632-0000	HOLDER	2-3, 2-5
05C031	2653368-0000	PLATE	2-3, 2-5

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2-5 (6)
: No: SPC-654654-0101

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ii Safety Precautions

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Safety Precaution Instructions

WARNING

Read all safety precaution instructions throughout this manual and on safety signs attached to this equipment.

Failure to follow all safety precaution instructions could result in death or serious injury.

Definition of Lockout Procedure

A lockout procedure is a procedure to put each necessary energy isolating device in its safe position to prevent the energisation of the equipment, such as when a maintenance procedure should be carried out.

A lockout is the use of a device, for example, a padlock, to make sure that an energy isolating device cannot be operated.

An energy isolating device is a mechanical device that physically prevents transmission or release of energy, such as a power supply disconnector.

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Instructed Person. . . . . ii - 6

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Safety Messages Description

A safety message is always accompanied by a safety alert symbol and a signal word.

The safety alert symbol is used to alert about potential personal injury hazards. To avoid hazards, obey all safety messages that follow this symbol.

The following safety alert symbols and signal words are used in this manual to inform the user of hazards.

DANGER	Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
WARNING	Warning indicates a potentially hazardous situation which, if not avoided, **could** result in **death or serious injury**.
CAUTION	Caution indicates a potentially hazardous situation which, if not avoided, **may** result in **minor or moderate injury.** It may also be used to alert against unsafe practices.
CAUTION	Caution without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **may** result in **property damage**.

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Personnel Requirements

Note! Personnel includes all persons working on or near this equipment.

Only skilled or instructed persons are allowed to work with this equipment.

Skilled Person

A skilled person must have relevant education and experience to enable him or her to identify hazards, analyse risks, and avoid hazards which electricity, machinery, chemicals, other energies, and supply systems on this equipment can create.

Skilled persons must meet local regulations, such as certifications and qualifications for working with these energies and systems.

Instructed Person

An instructed person must be adequately advised or supervised by a skilled person. The skilled person enables the instructed person to identify hazards, analyse risks, and avoid hazards which electricity, machinery, chemicals, other energies, and supply systems on this equipment can create.

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Safety Signs

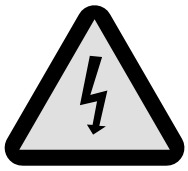
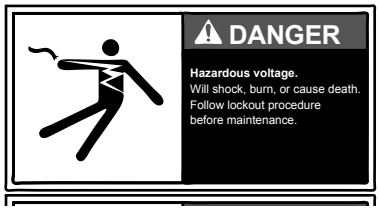
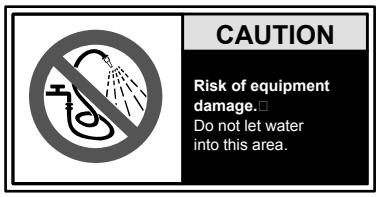
WARNING

Damaged or missing safety signs increase the risk of death or serious injury.

Replace all missing or damaged safety signs immediately.

Safety signs are attached to the equipment. The table below lists all the signs that are used, and illustrations show their locations on the equipment. Each position number refers to two variants of a safety sign in the table, but only one is used on the equipment.

- Make sure that each safety sign is legible and in its correct position after installation and maintenance.
- Replace all missing or damaged safety signs immediately.

Pos.	ISO sign	ANSI sign
1		
	Hazardous voltage. Will shock, burn, or cause death. Follow lockout procedure before maintenance.	
2		
	Risk of equipment damage. Do not let water into this area.	
3		
	Burn hazard. Trapped heat energy. Do not touch.	
4		
	Hot surface. Do not touch. Follow lockout procedure before maintenance.	

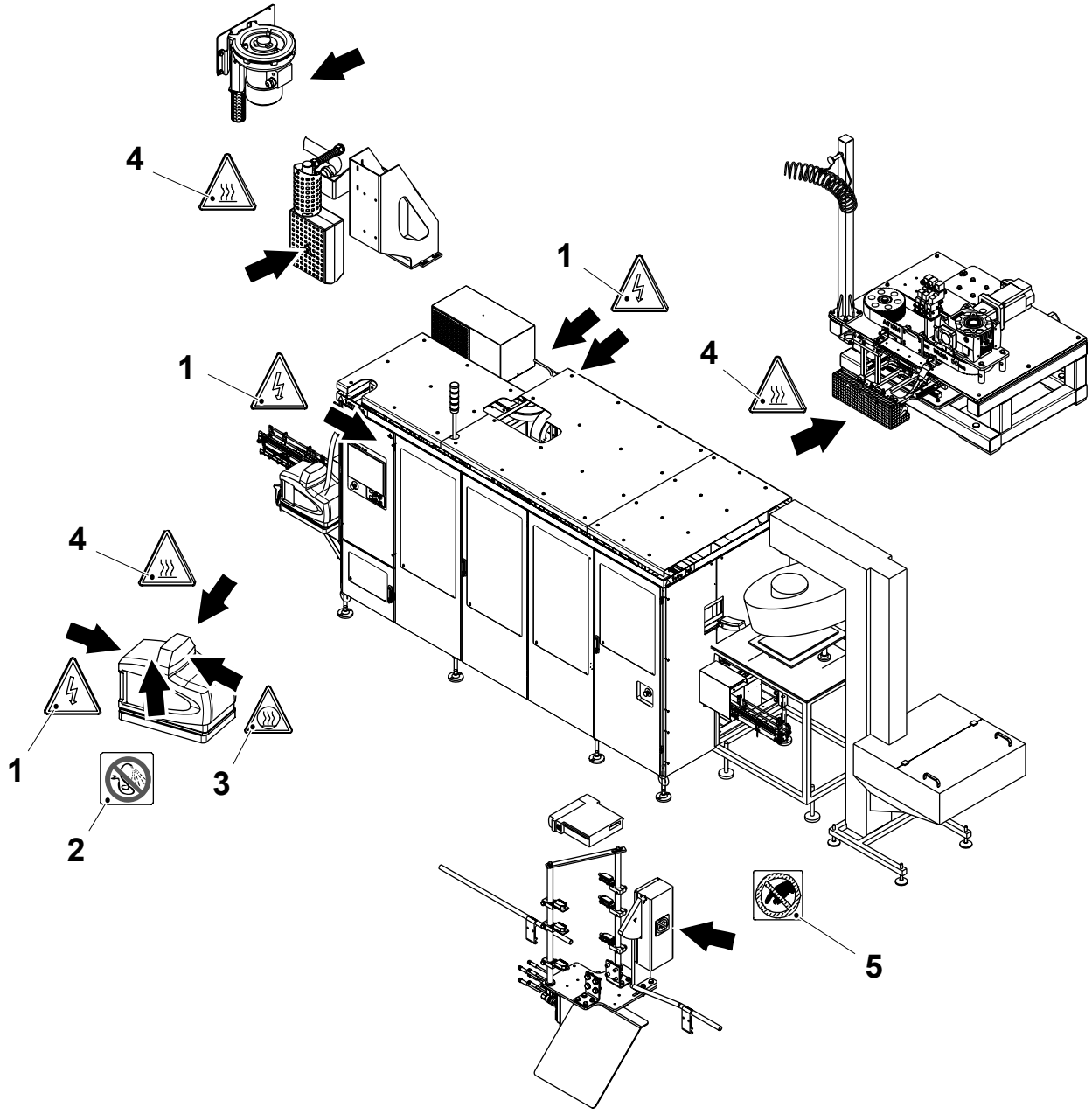
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Pos.	ISO sign	ANSI sign
5		
	Blade hazard. **Do not touch the sharp knife.**	

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Location of Safety Signs

The illustration shows where the safety signs are located. The position numbers refer to the table in the Safety Signs section.



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Protective Devices

WARNING

Hazardous zones.

Hazardous zones are safeguarded and provided with protective devices. Do not inch or run this equipment if any protective device is inoperative.

Change inoperative components of the safety system immediately.

WARNING

Hazardous voltage.

Hazardous voltage remains on this equipment after activating an EMERGENCY STOP or an interlocking device.

Emergency Stop

Emergency stop devices are used to stop this equipment immediately in an hazardous situation. Learn the positions of all emergency stop devices and how to use them.

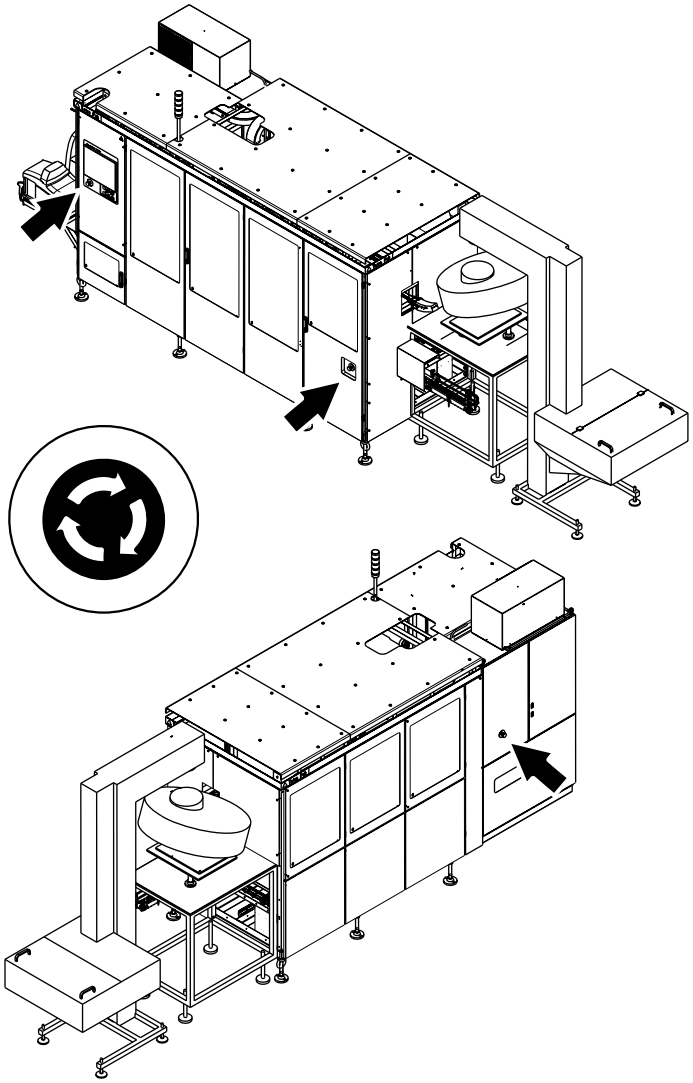
Instructions for a normal production stop are included in the Stop chapter of the Operation Manual.

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Emergency Stop Push-Buttons

Press one of the EMERGENCY STOP push-buttons to stop this equipment immediately.

The location of each EMERGENCY STOP push-button is shown by an arrow.



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Safeguards

WARNING
Moving machinery.
Never defeat or bypass the interlocking devices.

Movable guards, for example, doors and covers leading to hazardous zones, are fitted with interlock devices where required. These devices are usually electric safety switches that are part of the safety system and must never be defeated, bypassed, or otherwise made inoperative.

Where a moveable door is not allowed to be opened and must remain locked when the machine is in production, an electromagnetic door lock is installed or, the safety switches have a locking device incorporated. The movable guard can only open when the machine is in a safe condition.

WARNING
Corners and edges.
To prevent injury from corners and edges of open doors and covers, close them unless they must be open during such work. Be careful when working under an open door, cover or elsewhere below parts of the equipment with corners and edges.

CAUTION
Burn hazard.
Parts of this equipment may be hot after operation.

After installation and maintenance, and before this equipment is inched or run, check that all safeguards are in place and that they operate correctly.

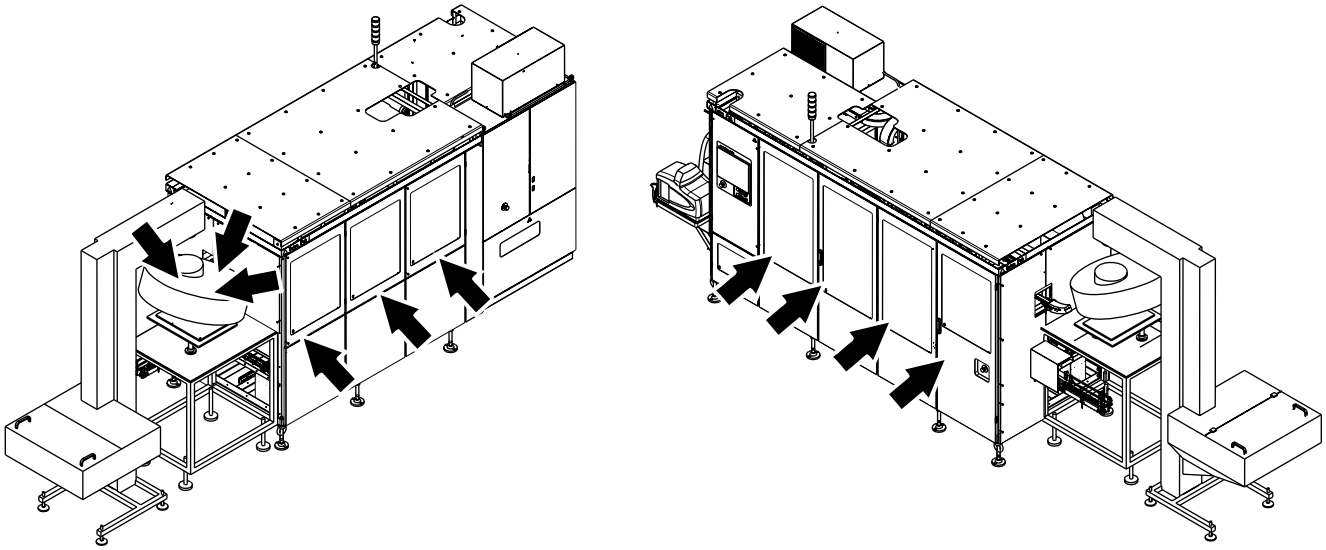
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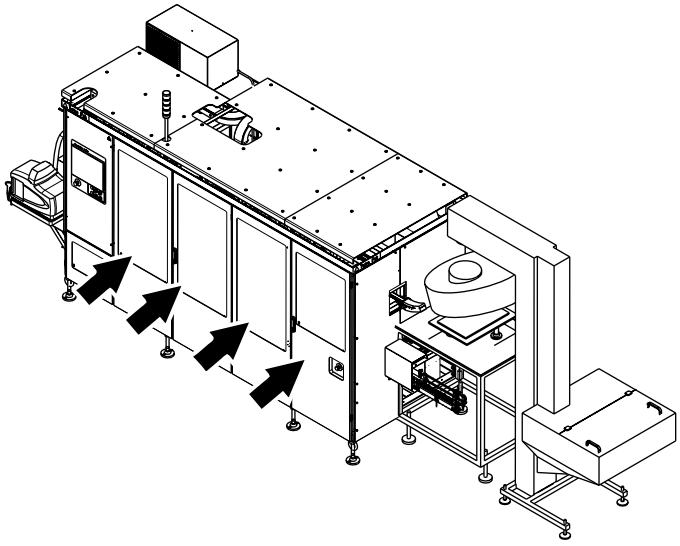
(Cont'd)

CAUTION
Equipment damage.
Never stop this equipment by opening a movable guard with an interlock device installed.

Movable guards with safety switches installed are shown by an arrow.



Movable guards with an electromagnetic door lock installed are shown by an arrow.



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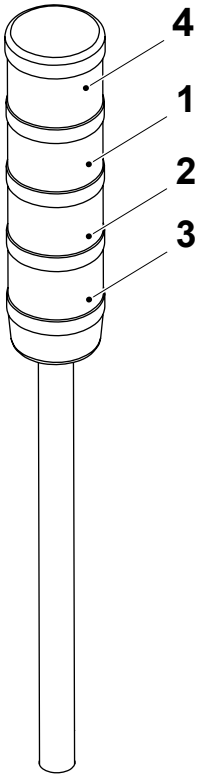
Warning Lamp

A warning lamp is a column of warning lights:

- A red light (1) indicates a hazardous condition. This is a situation that requires immediate action.
- A yellow light (2) indicates an abnormal or impending critical condition. This is a condition calling for action by the operator.
- A blue light (3) indicates information or that operator action is required.

Audible Alarm

The audible alarm (4) produces a warning signal every time this equipment is about to start. The warning signal sounds for approximately three seconds prior to starting to alert personnel.



1 Red
2 Yellow
3 Blue
4 Audible alarm

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Personal Protection

This section applies to all personnel at all times when this equipment is in operation. For special personal protection required when handling hazardous substances, see the Hazardous Substances section.

Noise Hazard

WARNING

Hazardous noise.

Risk of impaired hearing. Wear hearing protection whenever this equipment is in operation.

Entanglement Hazard

WARNING

Risk of entanglement.

Do not wear jewellery or loose clothing when working on or near this equipment. Long hair may not be loose.

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Hazardous Substances

WARNING

Contact with chemicals can cause death, serious injury, or illness.
Always read and follow the instructions in the safety data sheet supplied by the manufacturer or local supplier, when handling chemicals.

Make sure that

- The safety data sheet is available
- The showers work
- An eyewash device, movable or wall-mounted, is available and operational
- Additional washing facilities are nearby.

Note! Learn the locations of all washing facilities in order to act immediately in case of an accident.



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Determelt 3

WARNING
Risk of personal injury.
Wear personal protective equipment.

Determelt 3 is a blend of orange oils, mineral spirits and antioxidant. Determelt 3 is used to remove hotmelt from metal machine parts, such as, the cap holders and should only be used neat.

Contact with eyes will cause redness and discomfort. Repeated or prolonged contact may cause the skin to become dry, cracking and dermatitis. In case of accident, immediately call for medical attention.

Although classified as non-dangerous, always wear personal protective equipment when using chemicals, see Personal Protection.

Before use, always read the manufacture's instructions on the label of the tank or container.

Emergency Procedures

If there is an accident involving Determelt 3, rinse the affected area as soon as possible with large amounts of water.

If Determelt 3 is swallowed:

- Do not attempt to cause vomiting
- Drink large amounts of lukewarm water
- Call for medical attention immediately.

If splashes or vapour from Determelt 3 comes in contact with the eyes:

- Wash the eyes thoroughly with clean water until the pain is relieved
- Call for medical attention immediately.

If Determelt 3 comes into contact with skin and clothes:

- Wash immediately with soap and water
- Call for medical attention immediately if skin burns appear
- Thoroughly wash the clothes before wearing them again.

If irritation or pain is experienced due to having inhaled Determelt vapour:

- Leave the affected area and get some fresh air
- Call for medical attention if the symptoms get worse.

(Cont'd)

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(Cont'd)

Handling

WARNING

Risk of Self-ignition.

Self-ignition can occur at temperature more than 200°C (392°F).

Determelt 3 can only be used neat and used cold. Never pour on hot surfaces or turn on hotmelt applications.

Ensure that equipment to be cleaned is cool and all supplies to the equipment are OFF.

If Determelt 3 is spilled, use sand, earth or any absorbent material. Put waste into a container ready for disposal.

Storage

Keep the container upright and fitted with its proper seal. Determelt 3 must be stored in the original container delivered by the supplier. Make sure that the container is always properly closed.

Make sure that the area used for storage of Determelt 3 is:

- At room temperature, clean, and well ventilated
- Free from frost
- Shielded from direct sunlight
- Kept from open sources of ignition.

Shelf life is one year.

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Disposal of Chemical Substances

Always read and follow the disposal instructions in the safety data sheet supplied by the manufacturer or local supplier.

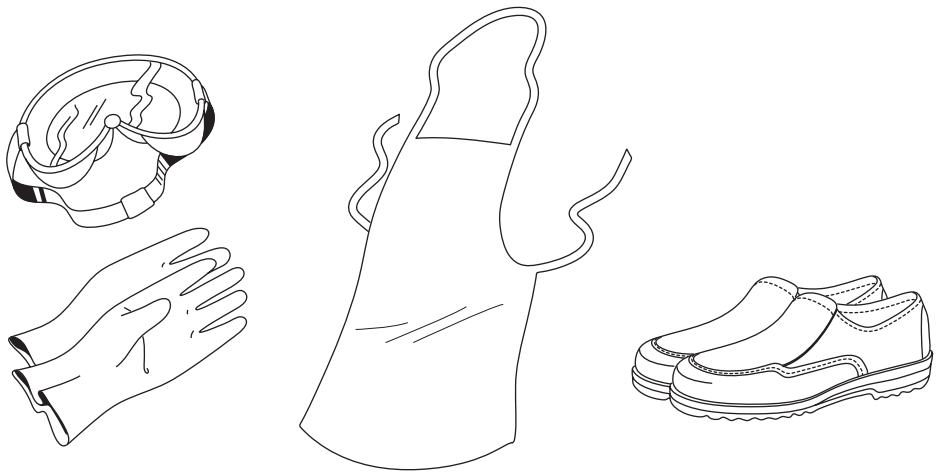
It is strongly recommended that used chemical containers are

- Disposed of according to the instructions immediately after use
- Not used as disposal containers for other chemicals in order to avoid uncontrolled chemical reactions within the container.

Personal Protective Equipment

Wear personal protective equipment when working with this equipment. The following equipment is required:

- Protective goggles (TP No. 90303-11)
- Heat protective gloves
- Protective apron (TP No. 90303-13)
- Protective shoes made of PVC or rubber.



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Supply Systems

Power Supply

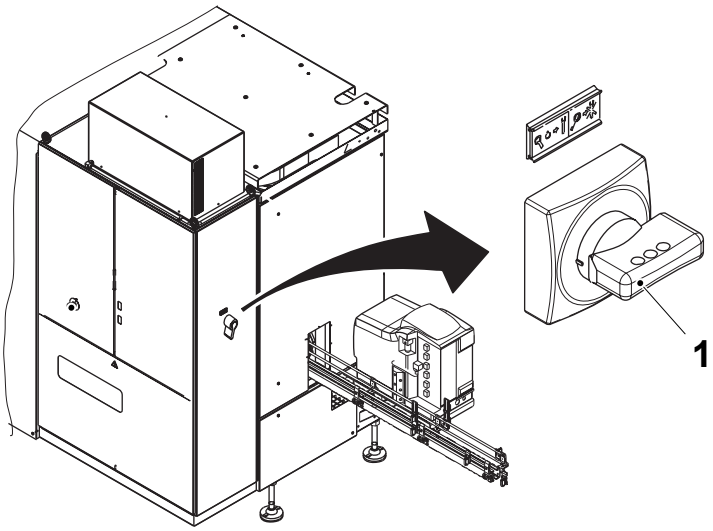
DANGER

Hazardous voltage and moving machinery.
The power supply disconnector must be turned off and secured with a lock before any maintenance.

Note! The key to the lock must be removed by the technician and retained in his/her possession until all work is completed.

Certain maintenance procedures may require power supply systems to be on. These exceptions are clearly stated in the Maintenance Manual.

The illustration shows the power supply disconnector (1) and its location.



1 Power supply disconnector

Residual Voltage

DANGER

Hazardous voltage.
Do not touch any terminals immediately after the power supply disconnector is turned off. Ensure that no residual voltage remains on the capacitors before touching. Wait five minutes. Failure to observe this information will cause death or serious injury.

After the power supply disconnector is turned off, residual voltage remains in the capacitor circuits.

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Electrical Cabinet

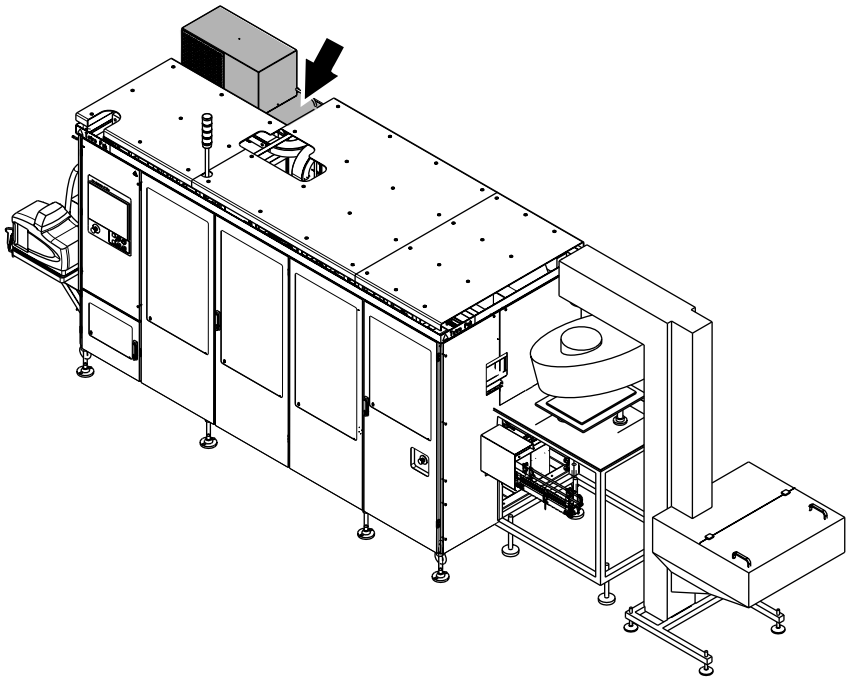
DANGER

Hazardous voltage.
Will shock, burn, or cause death. The power supply disconnector must be turned off and secured with a lock before maintenance inside the electrical cabinet.

Note! The key to the lock must be removed by the technician and retained in his/her possession until all work is completed.

Make sure that the electrical cabinet doors are closed after working inside the electrical cabinet. Doors with a lock must be locked.

The location of the electrical cabinet is shown by an arrow.



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Socket Outlet

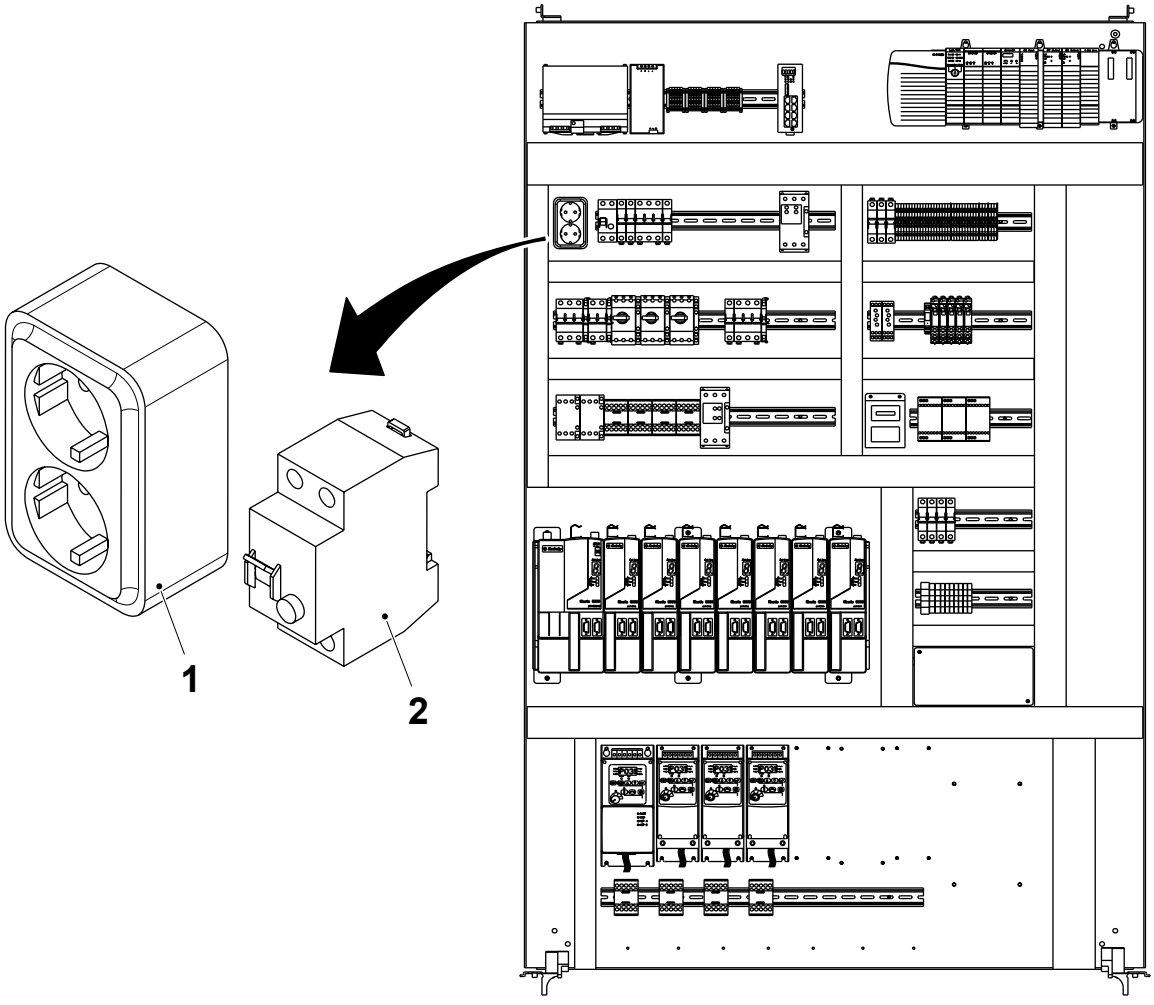
WARNING

Hazardous voltage.

Can shock, burn, or cause death. Read the Maintenance Manual before using this socket outlet.

The socket outlet (1) is connected to a residual current device (2) to protect users against electrical shock if there is an earth fault in the connected equipment. The residual current device shall be tested each time before the socket outlet is being used. See the MM for test procedure.

The illustration shows the socket outlet (1), the residual current device (2), and their location.



1 Socket outlet
2 Residual current device

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Air Supply

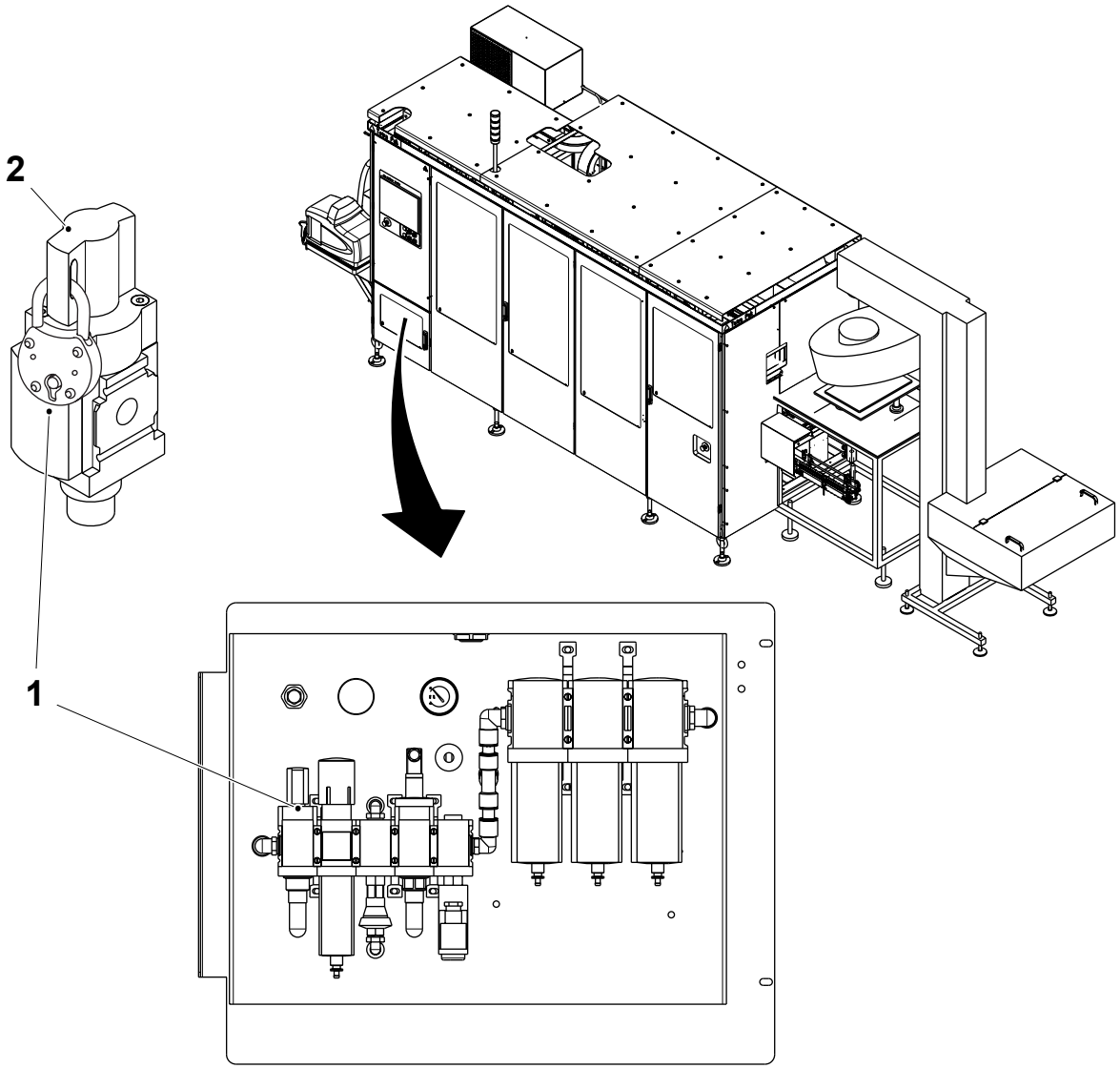
WARNING

Compressed air and moving machinery.
Close the main air valve and secure it with a lock before any maintenance.

Note! The key to the lock must be removed by the technician and retained in his/her possession until all work is completed.

Certain maintenance procedures may require air supply systems to be ON. These exceptions are clearly stated in the Maintenance Manual.

The illustration shows the shut-off valve (1). The shut-off handle (2) is used to close the air supply.



1 Shut-off valve
2 Shut-off handle

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Hotmelt Equipment

General

DANGER

Risk of electrical shock.
The voltage is 400V inside the hotmelt unit. Risk of immediate danger to life from electrical shock.

WARNING

Risk of personal injury.
All service work on the hotmelt unit must be carried out by authorized personnel. Always wear safety glasses, protective gloves, and other protective clothing to avoid injuries caused by splashing hotmelt material.

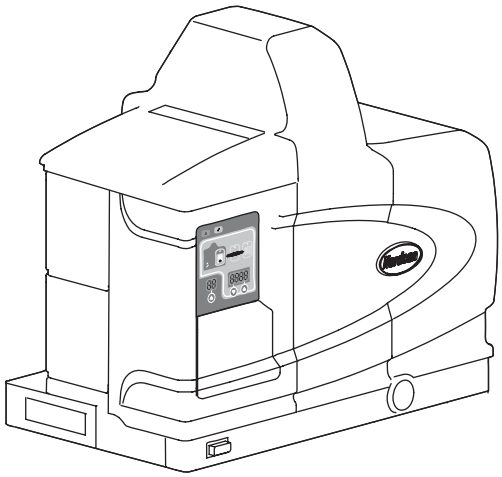
Failure to relieve any air or adhesive pressure could cause serious injuries from burning when the hotmelt filter is detached or flushed.

Never remove any part or component until the air and the electrical supply to the machine have been disconnected and the pressure of the hotmelt in the system has been relieved.

WARNING

Risk of hotmelt vapours.
When the tank lid is open, hotmelt vapours could be released. Vent the application area or wear a respirator.

Note! Always refer to the documentation provided from Nordson Corporation before doing any kind of work on the hotmelt equipment. The Nordson hotmelt manual is included with the delivery from Tetra Pak. The information in this manual only deals with what is specific for this machine.



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Hotmelt Unit

CAUTION

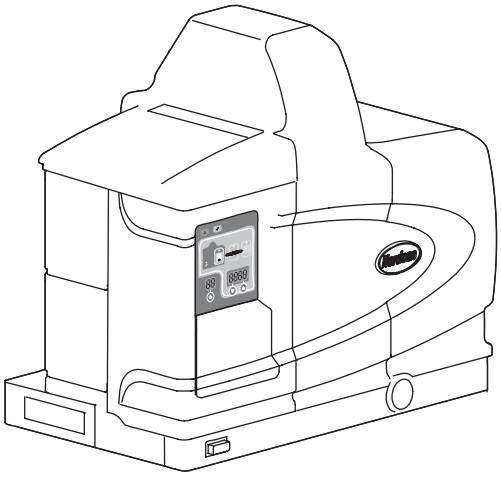
Risk of damage to the equipment.

Never flush water or any other liquid towards the hotmelt unit when cleaning the machine. Failure to obey could result in damage to equipment.

WARNING

Risk of burns.

During PREHEATING and PREPARTION the hotmelt unit becomes hot. Do not touch the hotmelt unit and beware of the entrapped heat inside the unit when service is performed.



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Hotmelt Guns

WARNING

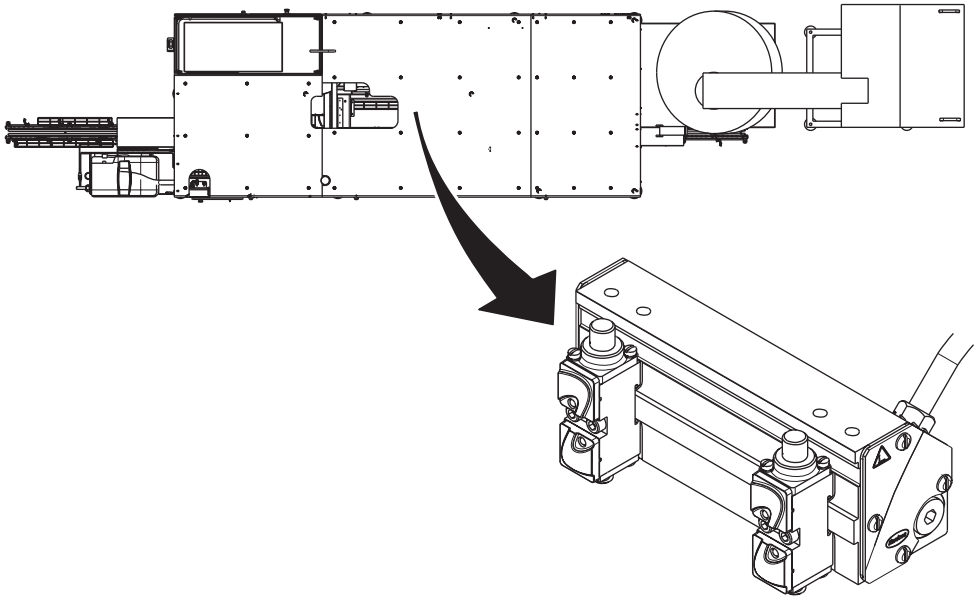
Risk of burns.

During PREHEATING, PREPARTION and PRODUCTION the hotmelt guns are hot. There is risk of severe burns. Do not touch the hotmelt guns and beware of the entrapped heat when service is performed.

CAUTION

Risk of damage to the equipment.

Never flush water or any other liquid towards the hotmelt guns when cleaning the machine. Failure to obey could result in damage to equipment.



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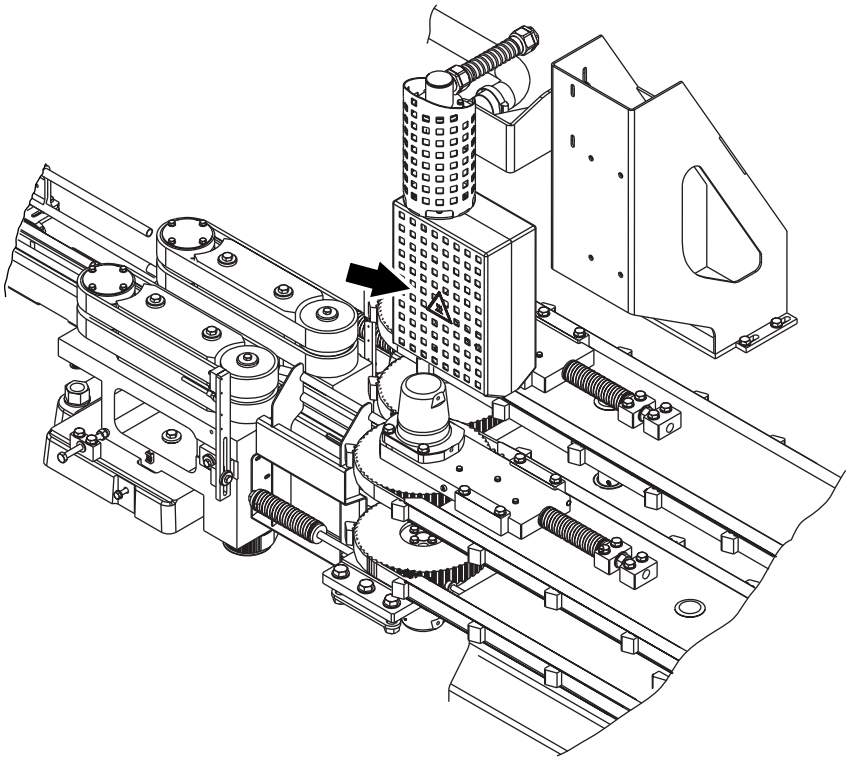
Additional Information

Package Heater

WARNING

Risk of burns.

The package heater is very hot and there is risk of severe burns. Never touch the package heater.



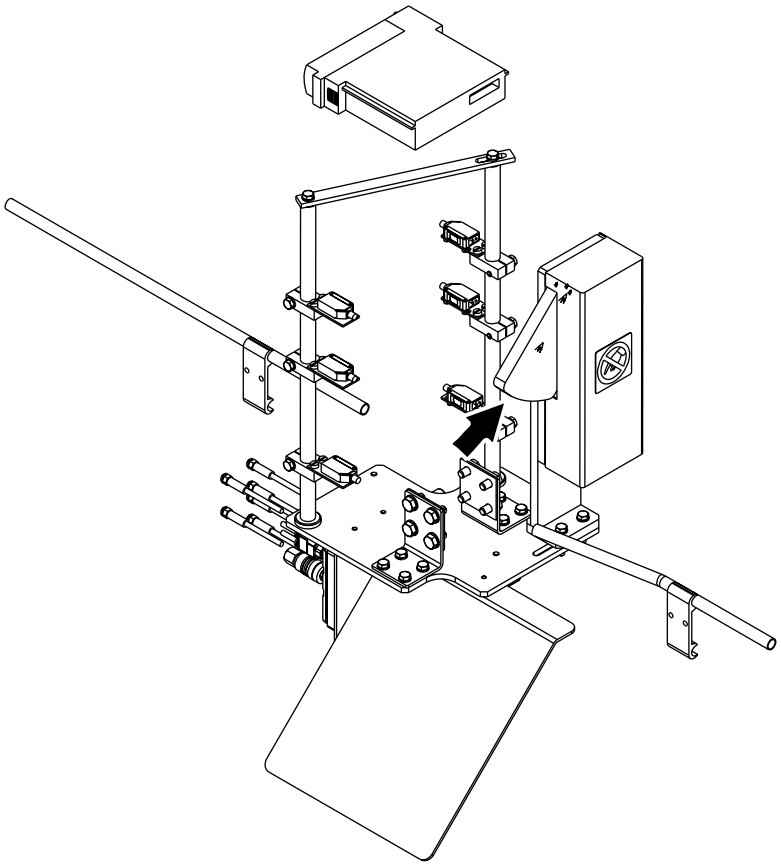
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Cap Detector

WARNING

Risk of personal injury.

Never put any part of the body, such as a hand, near the cap detector when the machine is working. There is a risk of injury caused by the movable pusher.



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Equipment for Lifting and Moving Loads

WARNING

Risk of crushing injury.
Make sure that the capacity of the lifting equipment is adequate and that the equipment itself is in good working order.

If lifting tackle has to be joined to make up the necessary length, make sure that the joints are secure and have the same lifting capacity as the rest of the lifting tackle.

Always engage safety clips fitted to lifting hooks to prevent the lifting tackle from slipping off.

Use ropes or poles to steady and manoeuvre suspended loads. Do not use hands or feet.

Make sure that the route and destination are free from obstacles before moving a suspended load. It must be possible to quickly and safely lower the load to the floor in an emergency.

When depositing loads, keep lifting tackle in place until the stability of the load has been substantiated.

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1 Electrical System Description

Description

This chapter contains a description of the electrical safety system.

1.1 Safety System . . . . . 1 - 5

Safety System - Description . . . . . 1 - 5

Safety Relay (Pluto) - Applicator Doors . . . . . 1 - 6

Emergency Stop Buttons . . . . . 1 - 7

Door Monitor (Operator Side) . . . . . 1 - 8

Door Monitor and Covers . . . . . 1 - 9

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1.1 Safety System

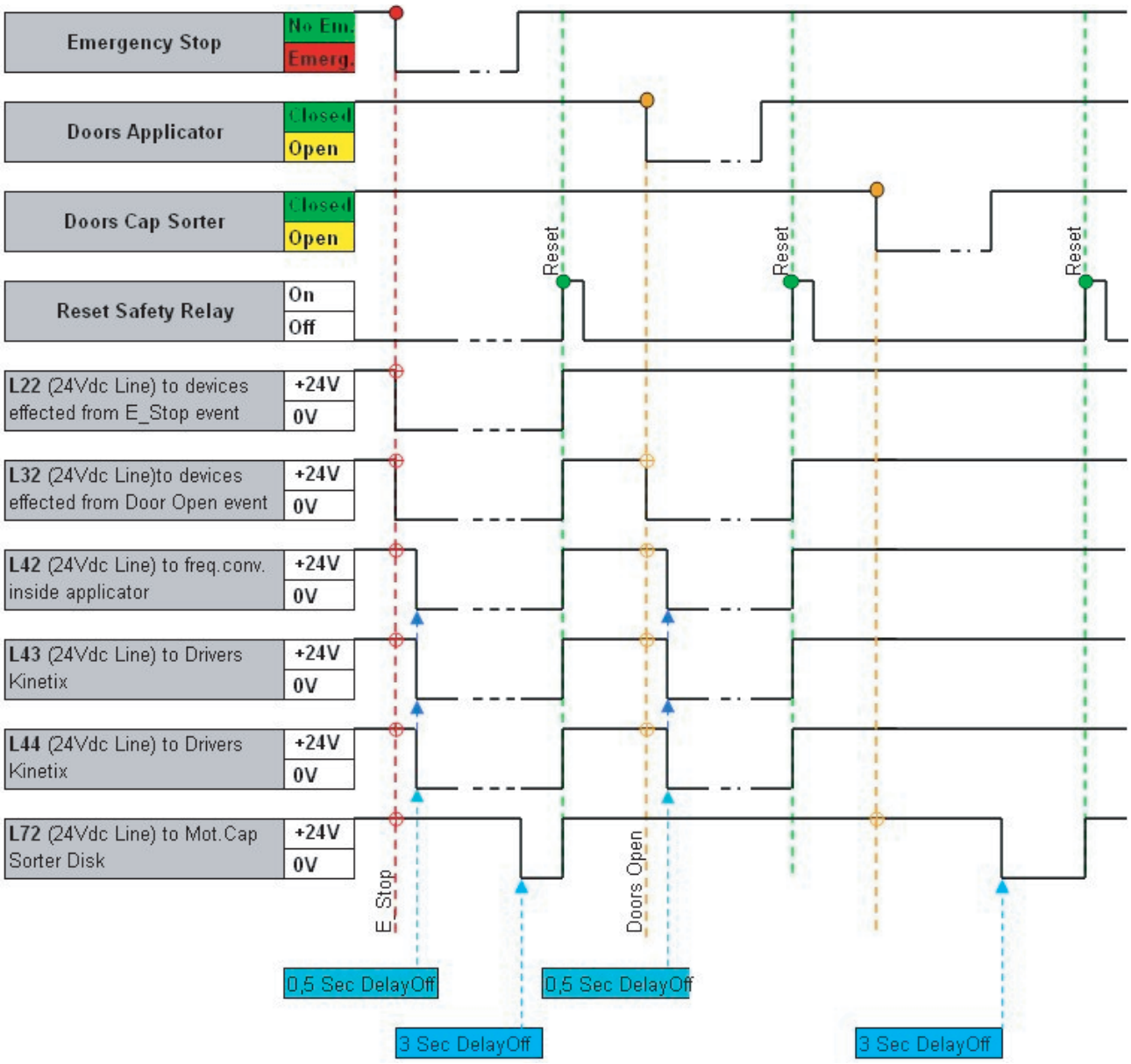
Safety System - Description

All the safety lines are managed from the PLUTO B20 device which is a safety PLC with customized I/O and programmable software inside.

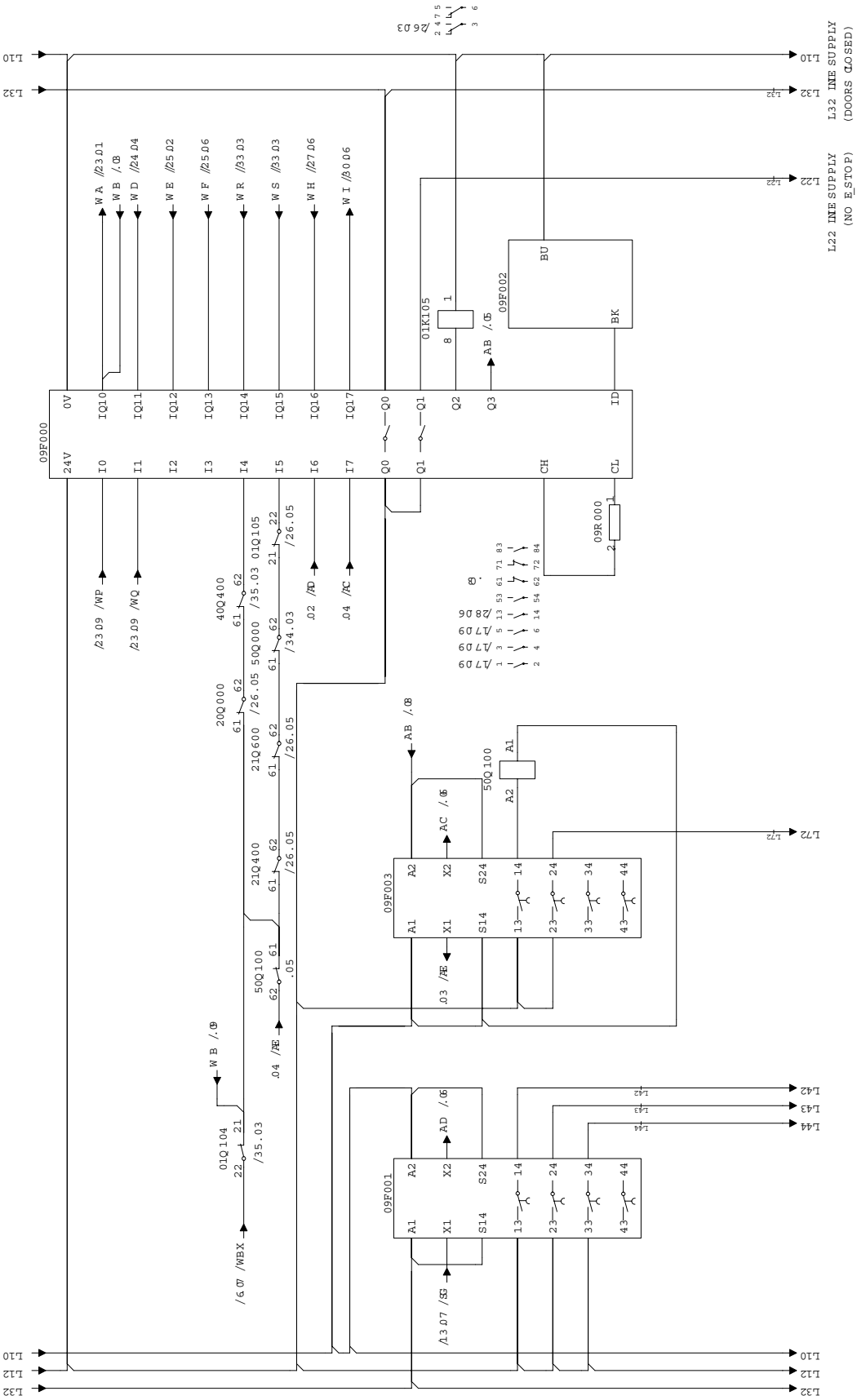
The main relays are as follows:

- Safety relay: PLUTO B20 Jokab
- Expansion relay: E1T0,5s Jokab

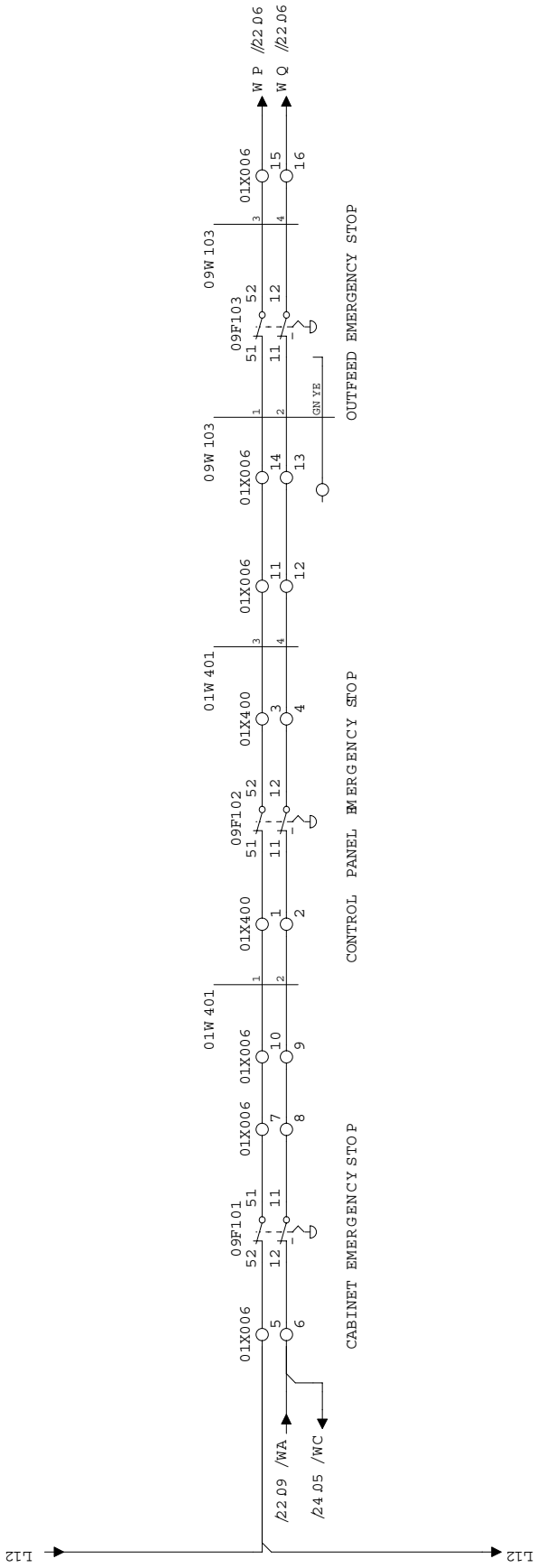
The safety lines are summarized in the following illustration:



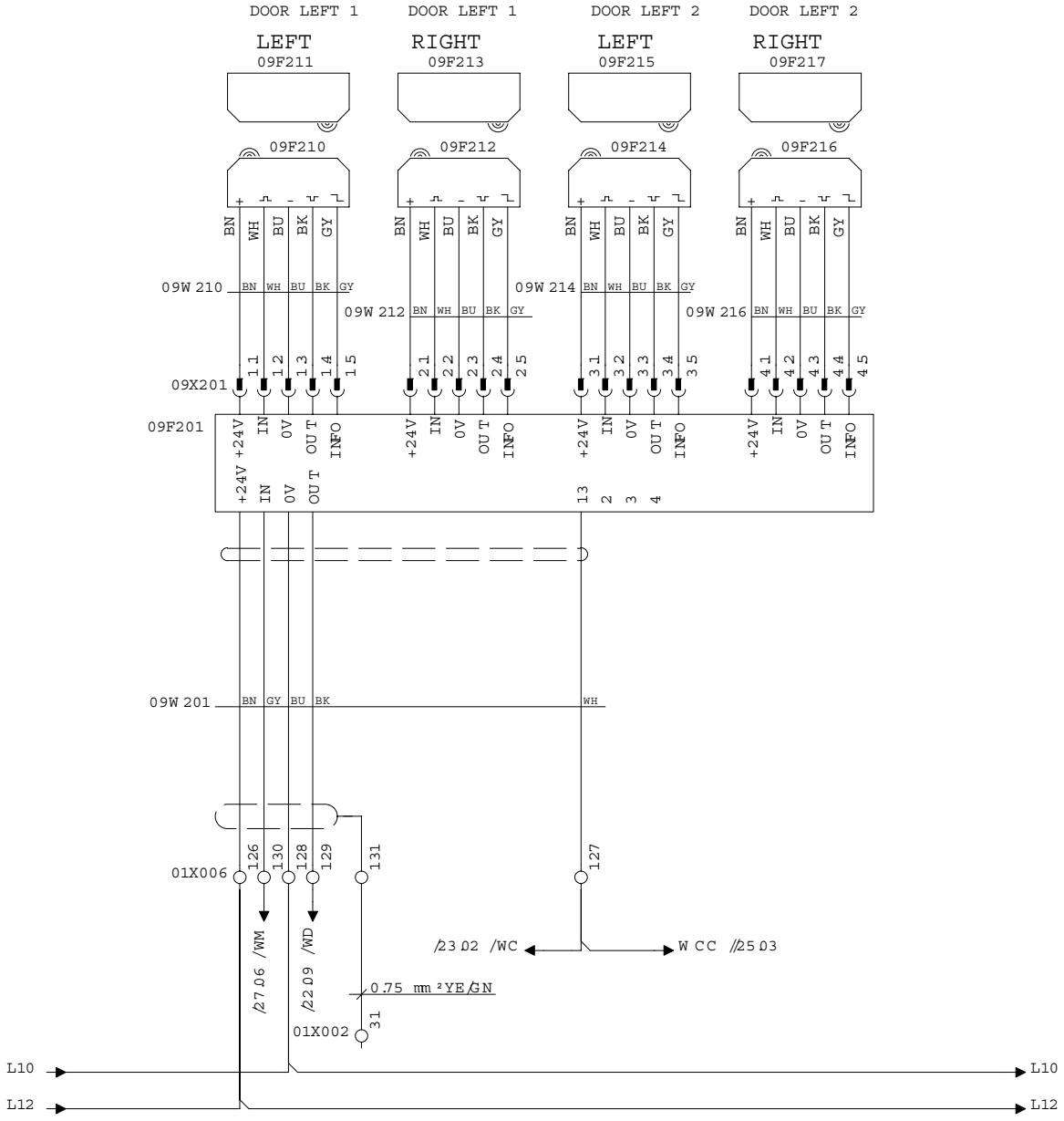
Safety Relay (Pluto) - Applicator Doors



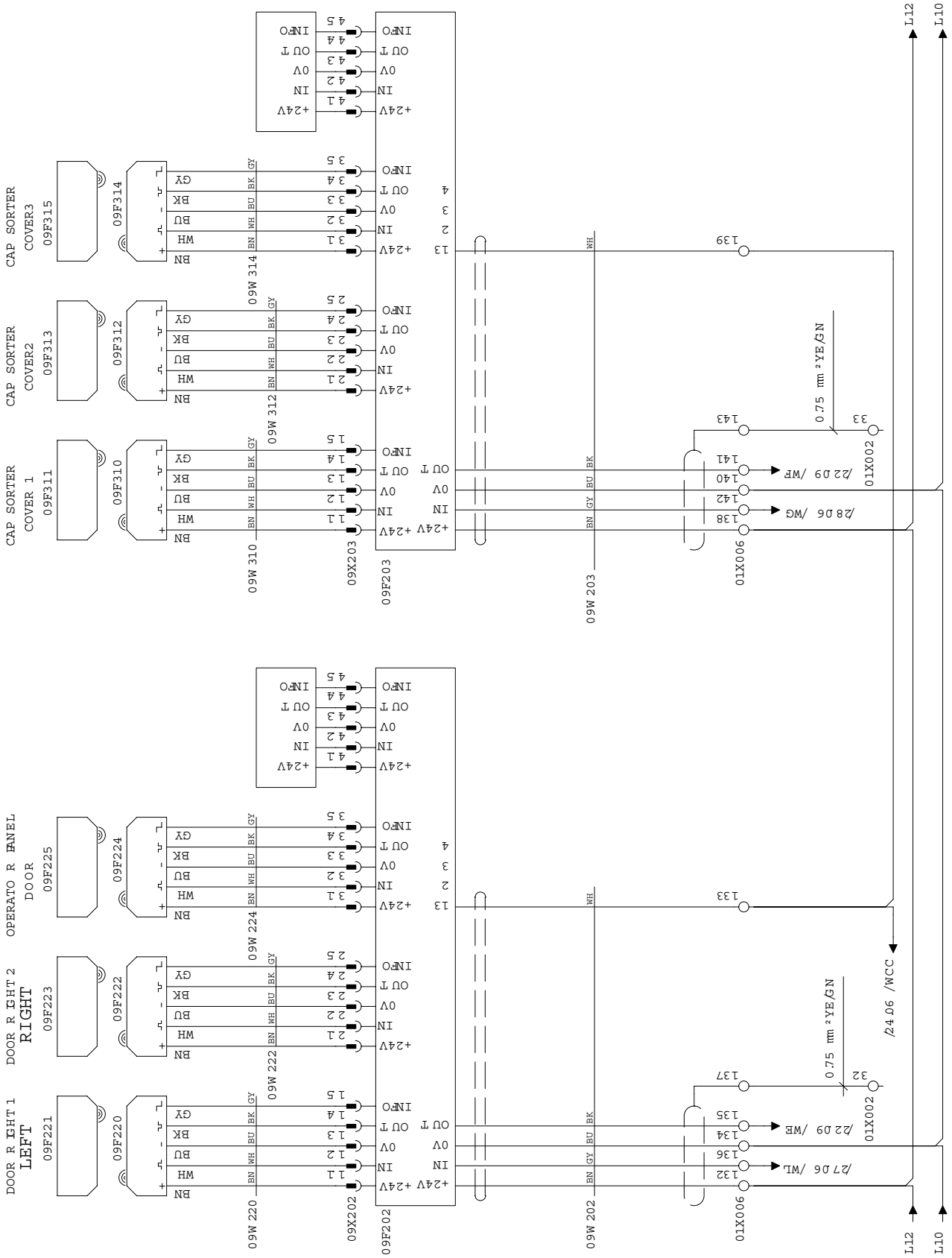
Emergency Stop Buttons



Door Monitor (Operator Side)



Door Monitor and Covers



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2 Document List

Description

This chapter is a table of contents that includes the drawing specification for each electrical document valid for the equipment.

This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.

RELEASED

Documents list

Drawing No	Denomination	Page type	Version
2858294-0001:001	DOCUMENTS LIST	DOCUMENTS LIST	AA
2858294-0001:002	DOCUMENTS LIST	DOCUMENTS LIST	AA
2858294-0001:003	DOCUMENTS LIST	DOCUMENTS LIST	AA
2858294-0002:001	POSITION SUMMARY	POSITION SUMMARY	AA
2858294-0002:002	POSITION SUMMARY	POSITION SUMMARY	AA
2858294-0002:003	POSITION SUMMARY	POSITION SUMMARY	AA
2858294-0003:001	CIRCUIT DIAGRAM	CIRCUIT DIAGRAM	AA
2858294-0003:002	CIRCUIT DIAGRAM	MAINS	AA
2858294-0003:003	CIRCUIT DIAGRAM	CONTROL VOLTAGE	AA
2858294-0003:004	CIRCUIT DIAGRAM	LIGHT FIXTURES	AA
2858294-0003:005	CIRCUIT DIAGRAM	COOLING UNIT	AA
2858294-0003:006	CIRCUIT DIAGRAM	SERVO MOTOR 1 (APPLICATOR WHEEL)	AA
2858294-0003:007	CIRCUIT DIAGRAM	SERVO MOTOR 2 (X AXIS GLUE APPL.)	AA
2858294-0003:008	CIRCUIT DIAGRAM	SERVO MOTOR 3 (Y AXIS GLUE APPL.)	AA
2858294-0003:009	CIRCUIT DIAGRAM	SERVO MOTOR 4 (PACK. TRANSFER INNER)	AA
2858294-0003:010	CIRCUIT DIAGRAM	SERVO MOTOR 5 (PACK.TRANSFER OUTER)	AA
2858294-0003:011	CIRCUIT DIAGRAM	SERVO MOTOR 6 (CAP SEQUENCER)	AA
2858294-0003:012	CIRCUIT DIAGRAM	SERVO MOTOR 7 (PUSH DOWN)	AA
2858294-0003:013	CIRCUIT DIAGRAM	SERVO MOTOR 8 (AXIS X POSITIONING SYS.)	AA
2858294-0003:014	CIRCUIT DIAGRAM	MOTORS	AA
2858294-0003:015	CIRCUIT DIAGRAM	MOTORS REMOTE CABINET	AA
2858294-0003:016	CIRCUIT DIAGRAM	MOTORS	AA
2858294-0003:017	CIRCUIT DIAGRAM	MOTORS	AA
2858294-0003:018	CIRCUIT DIAGRAM	PLC RACK	AA
2858294-0003:019	CIRCUIT DIAGRAM	POWER SUPPLY DEVICE NET	AA
2858294-0003:020	CIRCUIT DIAGRAM	CURRENT CONTROL RELAY	AA
2858294-0003:021	CIRCUIT DIAGRAM	ETHERNET SWITCH / CONTROL PANEL	AA
2858294-0003:022	CIRCUIT DIAGRAM	SAFETY RELAY	AA
2858294-0003:023	CIRCUIT DIAGRAM	EMERGENCY STOP	AA
2858294-0003:024	CIRCUIT DIAGRAM	DOORS MONITOR (OPERATOR SIDE)	AA
2858294-0003:025	CIRCUIT DIAGRAM	DOORS AND COVERS MONITOR	AA
2858294-0003:026	CIRCUIT DIAGRAM	POWER ON TO THE MOTORS	AA
2858294-0003:027	CIRCUIT DIAGRAM	PLC IN	AA
2858294-0003:028	CIRCUIT DIAGRAM	PLC IN	AA
2858294-0003:029	CIRCUIT DIAGRAM	PLC IN	AA
2858294-0003:030	CIRCUIT DIAGRAM	PLC IN	AA
2858294-0003:031	CIRCUIT DIAGRAM	PLC IN (WASTE DEVICE) OPTIONAL	AA
2858294-0003:032	CIRCUIT DIAGRAM	PLC IN (WASTE DEVICE) OPTIONAL	AA
2858294-0003:033	CIRCUIT DIAGRAM	PLC OUT	AA
2858294-0003:034	CIRCUIT DIAGRAM	PLC OUT	AA
2858294-0003:035	CIRCUIT DIAGRAM	PLC OUT	AA
2858294-0003:036	CIRCUIT DIAGRAM	PLC OUT (WASTE DEVICE) OPTIONAL	AA
2858294-0003:037	CIRCUIT DIAGRAM	REMOTE I/O ADAPTER O.P. BOX	AA
2858294-0003:038	CIRCUIT DIAGRAM	REMOTE I/O ADAPTER O.P. BOX	AA
2858294-0003:039	CIRCUIT DIAGRAM	REMOTE I/O ADAPTER O.P. BOX	AA
2858294-0003:040	CIRCUIT DIAGRAM	REMOTE I/O ADAPTER O.P. BOX	AA

Tetra Pak

Designer QUE
ECM No 276887
Date 26/04/2006
Denomination DOCUMENTS LIST
Machine SCREWCAP Platform (FLEX)
Page Type DOCUMENTS LIST
Document No. 2858294-0001
Doc. type ELD
Version AA
Page 001
Company Tetra Pak Carton Ambient S.p.A
Drawing remarks

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RELEASED

Documents list

Drawing No	Denomination	Page type	Version
2858294-0003:041	CIRCUIT DIAGRAM	REMOTE I/O ADAPTER O.P. BOX	AA
2858294-0003:042	CIRCUIT DIAGRAM	REMOTE I/O ADAPTER O.P. BOX	AA
2858294-0003:043	CIRCUIT DIAGRAM	FIELD POWER DISTR. O.P. BOX	AA
2858294-0003:044	CIRCUIT DIAGRAM	REMOTE OUTPUT O.P. BOX	AA
2858294-0003:045	CIRCUIT DIAGRAM	REMOTE OUTPUT O.P. BOX	AA
2858294-0003:046	CIRCUIT DIAGRAM	REMOTE OUTPUT O.P. BOX	AA
2858294-0003:047	CIRCUIT DIAGRAM	FIELD POWER DISTR. O.P. BOX	AA
2858294-0003:048	CIRCUIT DIAGRAM	REMOTE OUTPUT O.P. BOX	AA
2858294-0003:049	CIRCUIT DIAGRAM	REMOTE OUTPUT O.P. BOX	AA
2858294-0003:050	CIRCUIT DIAGRAM	ARMOR BLOCK (MACHINE BODY)	AA
2858294-0003:051	CIRCUIT DIAGRAM	ARMOR BLOCK (CAP SORTER)	AA
2858294-0003:052	CIRCUIT DIAGRAM	VISION SYSTEM DEVICE	AA
2858294-0004:001	LINE SUMMARY	LINE SUMMARY	AA
2858294-0004:002	LINE SUMMARY	LINE SUMMARY	AA
2858294-0004:003	LINE SUMMARY	LINE SUMMARY	AA
2858294-0004:004	LINE SUMMARY	LINE SUMMARY	AA
2858294-0005:001	CABINET TERMINAL SUMMARY	CABINET TERMINAL SUMMARY	AA
2858294-0005:002	CABINET TERMINAL SUMMARY	CABINET TERMINAL SUMMARY	AA
2858294-0006:001	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:002	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:003	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:004	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:005	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:006	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:007	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:008	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:009	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
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2858294-0006:011	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:012	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:013	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:014	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:015	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:016	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:017	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:018	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:019	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:020	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:021	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:022	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:023	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:024	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:025	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:026	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:027	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:028	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA

Tetra Pak

Company: Tetra Pak Carton Ambient S.p.A

Machine: SCREWCAP Platform (FLEX)

Page Type: DOCUMENTS LIST

Document No.: 2858294-0001

Doc. type: ELD

Version: AA

Page: 002

Designer: QUE

ECM No: 276887

Denomination: DOCUMENTS LIST

Date: 26/04/2006

Drawing remarks

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Documents list

Drawing No	Denomination	Page type	Version
2858294-0006:029	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0006:030	TERMINAL STRIP OVERVIEW	TERMINAL STRIP OVERVIEW	AA
2858294-0007:001	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0007:002	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0007:003	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0007:004	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0007:005	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0007:006	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0007:007	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0007:008	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0007:009	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0007:010	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0007:011	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0007:012	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0007:013	CABLE CONNECTION LIST	CABLE CONNECTION LIST	AA
2858294-0008:001	MAINS CONNECTION	MAINS CONNECTION	AA
2858294-0008:002	MAINS CONNECTION	MAINS CONNECTION	AA

Tetra Pak

Company: Tetra Pak Carton Ambient S.p.A

Designer: QUE | Date: 26/04/2006

ECM No: 276887 | Denomination: DOCUMENTS LIST

Machine: SCREWCAP Platform (FLEX) | Page Type: DOCUMENTS LIST | Document No.: 2858294-0001 | Doc. type: ELD | Version: AA | Page: 003

Drawing remarks

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3 Position Summary

Description

This chapter is a list of all electrical components that are shown in the electrical drawings, with page references to the drawings where they are located.

This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.

Position summary of 2858294-0003

Component	Page .Col.	Opt.
01A400	21 .6	
01B600	27 .5	
01B601	27 .6	
01B801	41 .5	
01B901	50 .3	
01B902	50 .3	
01E600	5 .5	
01E700	4 .4	
01E701	4 .5	
01E702	4 .7	
01F100	2 .2	
01F101	2 .5	
01F104	6 .1	
01F105	6 .3	
01F200	3 .3	
01F201	3 .3	
01F202	3 .4	
01F300	18 .3	
01F400	21 .7	
01F500	14 .6	
01F600	5 .5	
01F700	4 .3	
01F701	4 .9	
01K100	2 .6	
01K105	22 .8	
01K301	18 .3	
01K302	18 .3	
01K303	18 .3	

Component	Page .Col.	Opt.
01K304	18 .2	
01K305	27 .7	
01K306	32 .7	WASTE D.
01K307	33 .2	
01K308	35 .1	
01K310	18 .3	
01K320	37 .6	
01K321	38 .7	
01K322	39 .7	
01K323	40 .7	
01K324	41 .7	
01K325	42 .7	
01K326	43 .7	
01K327	44 .1	
01K328	45 .1	
01K329	46 .1	
01K330	47 .7	
01K331	48 .1	
01K332	49 .1	
01K335	49 .3	
01K336	49 .3	
01K340	51 .6	
01K700	33 .3	
01K800	48 .5	
01K900	48 .5	
01P400	44 .4	
01P401	44 .4	
01P402	44 .4	

Component	Page .Col.	Opt.
01P500	34 .3	
01P501	34 .3	
01P510	45 .4	
01P513	45 .4	
01Q104	35 .3	
01Q105	26 .5	
01Q500	33 .3	
01Q600	33 .3	
01R340	51 .9	
01S400	38 .5	
01S401	38 .5	
01S402	38 .5	
01S403	39 .5	
01T200	3 .3	
01T300	18 .2	
01T400	21 .7	
01V100	2 .6	
01V104	6 .1	
01V105	6 .3	
01V500	14 .5	
09F000	22 .7	
09F001	22 .2	
09F002	22 .8	
09F003	22 .4	
09F101	23 .3	
09F102	23 .5	
09F103	23 .7	
09F201	24 .3	

Component	Page .Col.	Opt.
09F210	24 .3	
09F211	24 .4	
09F212	24 .4	
09F213	24 .5	
09F214	24 .5	
09F215	24 .6	
09F216	24 .6	
09F217	24 .7	
09F230	25 .1	
09F231	25 .2	
09F232	25 .2	
09F233	25 .3	
09F234	25 .3	
09F235	25 .3	
09F236	25 .1	
09F310	25 .6	
09F311	25 .7	
09F312	25 .7	
09F313	25 .7	
09F314	25 .8	
09F315	25 .8	
09F316	25 .6	
09K241	46 .4	
09K242	46 .4	
09R000	22 .6	
20B003	29 .4	
20F000	16 .2	
20K002	34 .3	

Drawing remarks

Tetra Pak

Designer QUE | Date 26/04/2006 | Machine SCREWCAP Platform (FLEX)

ECM No 276887 | Denomination POSITION SUMMARY | Page Type POSITION SUMMARY

Company Tetra Pak Carton Ambient S.p.A | Document No. 2858294-0002 | Doc. type ELD | Version AA | Page 001

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Position summary of 2858294-0003

Component	Page .Col.	Opt.
20K300	49 .4	
20M000	16 .5	
20Q000	26 .5	
20T000	16 .2	
20V000	16 .2	
21B000	50 .3	
21B300	31 .5	WASTE D.
21B301	31 .5	WASTE D.
21B302	31 .3	WASTE D.
21B303	31 .3	WASTE D.
21B304	31 .5	WASTE D.
21B305	31 .5	WASTE D.
21B401	40 .4	
21B402	40 .5	
21B403	40 .4	
21B404	40 .5	
21B405	40 .4	
21B406	40 .5	
21B407	40 .4	
21B408	40 .5	
21B423	50 .3	
21B424	50 .4	
21B601	50 .3	
21B602	50 .4	
21F400	16 .7	
21F600	17 .7	
21F800	14 .1	
21F801	14 .8	

Component	Page .Col.	Opt.
21K000	48 .5	
21K310	36 .5	WASTE D.
21K311	36 .5	WASTE D.
21K400	16 .7	
21K401	16 .8	
21K500	36 .5	WASTE D.
21K600	17 .6	OUT. P.CONV.
21K601	17 .8	OUT. P.CONV.
21K800	20 .4	
21K801	20 .6	
21M100	9 .2	
21M200	10 .2	
21M400	16 .9	
21M600	17 .9	OUT. P.CONV.
21M800	14 .1	
21Q400	26 .5	
21Q600	26 .5	OUT. P.CONV.
21Q800	33 .3	
21Q801	33 .3	
21R801	14 .8	
21T100	9 .5	
21T200	10 .5	
21T400	16 .7	
21T600	17 .6	OUT. P.CONV.
21V400	16 .7	
21V600	17 .7	OUT. P.CONV.
30B101	29 .4	
30B102	29 .4	

Component	Page .Col.	Opt.
30M000	6 .2	
30M400	12 .2	
30T000	6 .5	
30T400	12 .5	
40B010	30 .4	
40B011	30 .4	
40B012	29 .4	
40B013	29 .4	
40B200	30 .4	
40B202	29 .5	
40B500	51 .3	
40B501	51 .4	
40B504	51 .3	
40B505	51 .4	
40F400	15 .4	
40K100	35 .5	
40K101	35 .5	
40K203	49 .4	
40K210	34 .4	
40K211	34 .4	
40M000	7 .2	
40M002	8 .2	
40M300	11 .2	
40M400	15 .4	
40Q400	35 .3	
40T000	7 .5	
40T002	8 .5	
40T300	11 .5	

Component	Page .Col.	Opt.
50B013	51 .3	
50B014	51 .4	
50B101	51 .2	
50B102	51 .2	
50B105	51 .2	
50B200	51 .3	
50F000	15 .6	
50F100	17 .2	
50K100	17 .2	
50K101	17 .3	
50K104	36 .5	
50M000	15 .6	
50M100	17 .4	
50Q000	34 .3	
50Q100	22 .5	
50T100	17 .1	
50V100	17 .2	
70B000	52 .8	VIS.SYS.D.
70B003	52 .2	
70E002	52 .4	VIS.SYS.D.
70K000	34 .3	
70K001	52 .2	
70M100	13 .2	POS.SYS.
70T100	13 .5	POS.SYS.
81K200	21 .5	
81K201	21 .4	
81K203	21 .3	
81K401	18 .2	

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination POSITION SUMMARY	Page Type POSITION SUMMARY	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0002	Doc. type ELD	Version AA	Page 002

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Position summary of 2858294-0003

Component	Page .Col.	Opt.
81K402	19 .9	
81K420	50 .6	
81K500	18 .9	COM.UNIT
81R400	19 .8	
81R700	16 .1	
81R703	17 .7	
81T200	21 .2	
81T400	19 .9	

Component	Page .Col.	Opt.

Component	Page .Col.	Opt.

Component	Page .Col.	Opt.

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination POSITION SUMMARY	Page Type POSITION SUMMARY	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0002	Doc. type ELD	Version AA	Page 003

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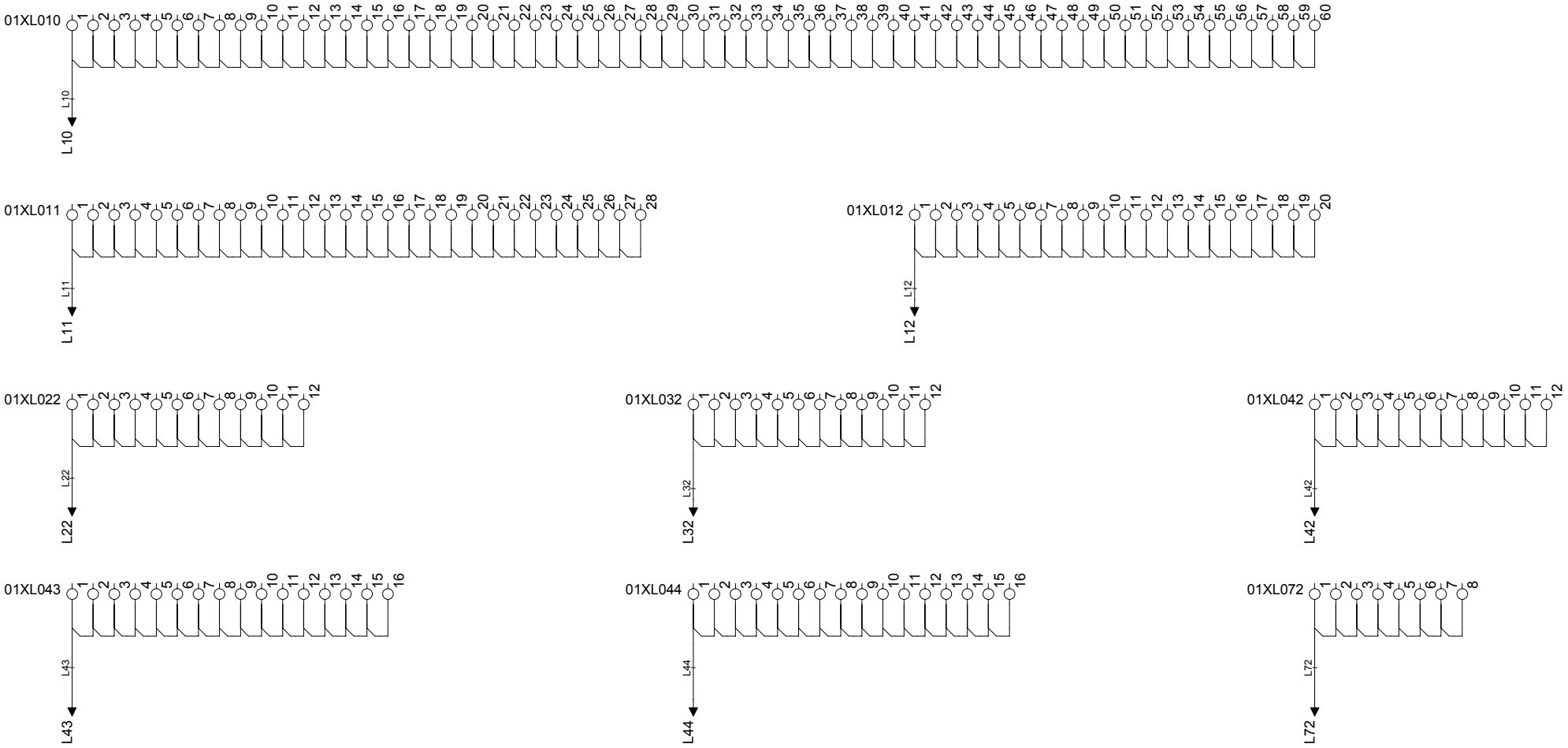
4 Circuit Diagrams

Description

This chapter contains all component drawings, such as programmable logic controller (PLC) modules, terminals, and cables.

RELEASED

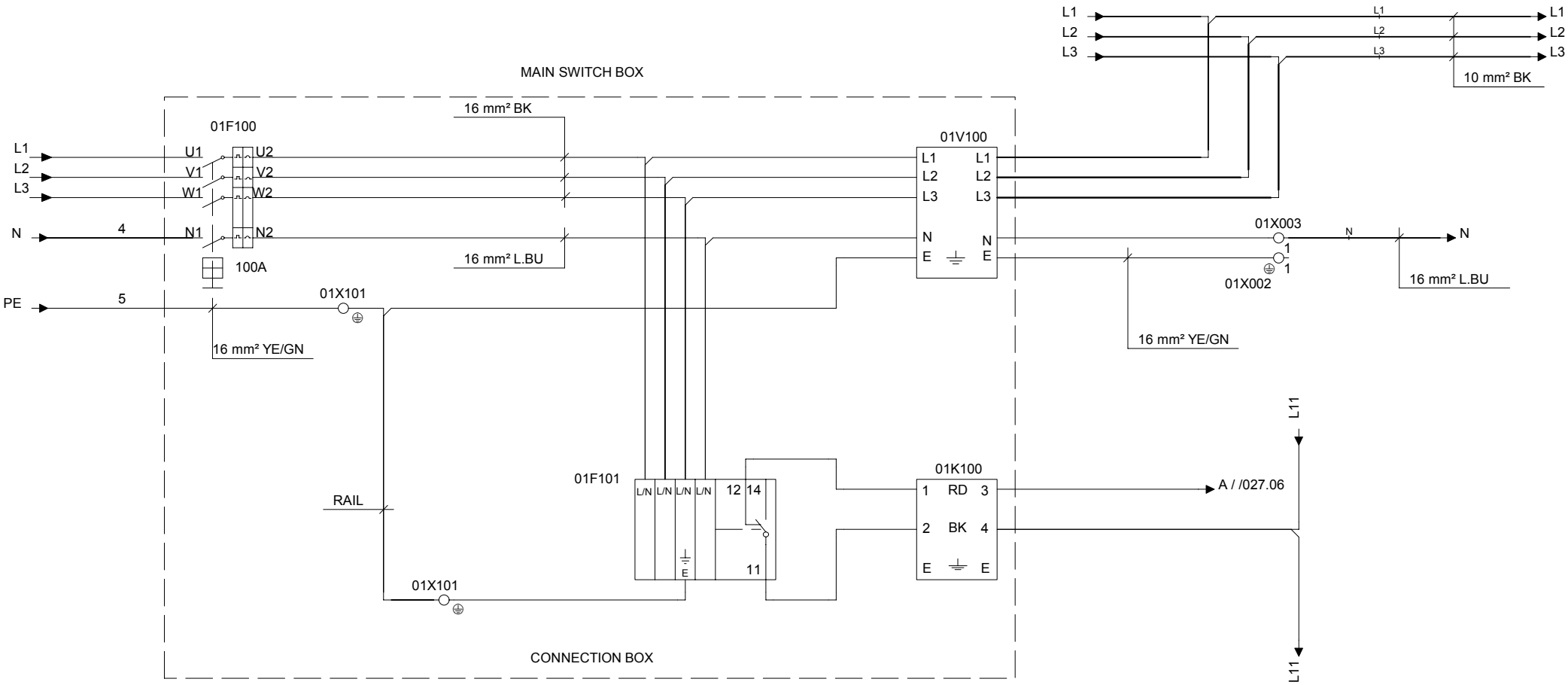
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type CIRCUIT DIAGRAM	
	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 001

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FOR TYPE OF WIRING, INSTRUCTION ETC.
SEE SPECIFICATION FOR SUBSUPPLIERS TPUS 3502.22

WHERE NOTHING ELSE IS SAID
OR LINE SUMMARY IS VALID : 0,75 mm2 BU

mm²	AWG
10.00	8
6.00	10
4.00	12
2.50	14
1.50	16
1.00	18
0.75	20

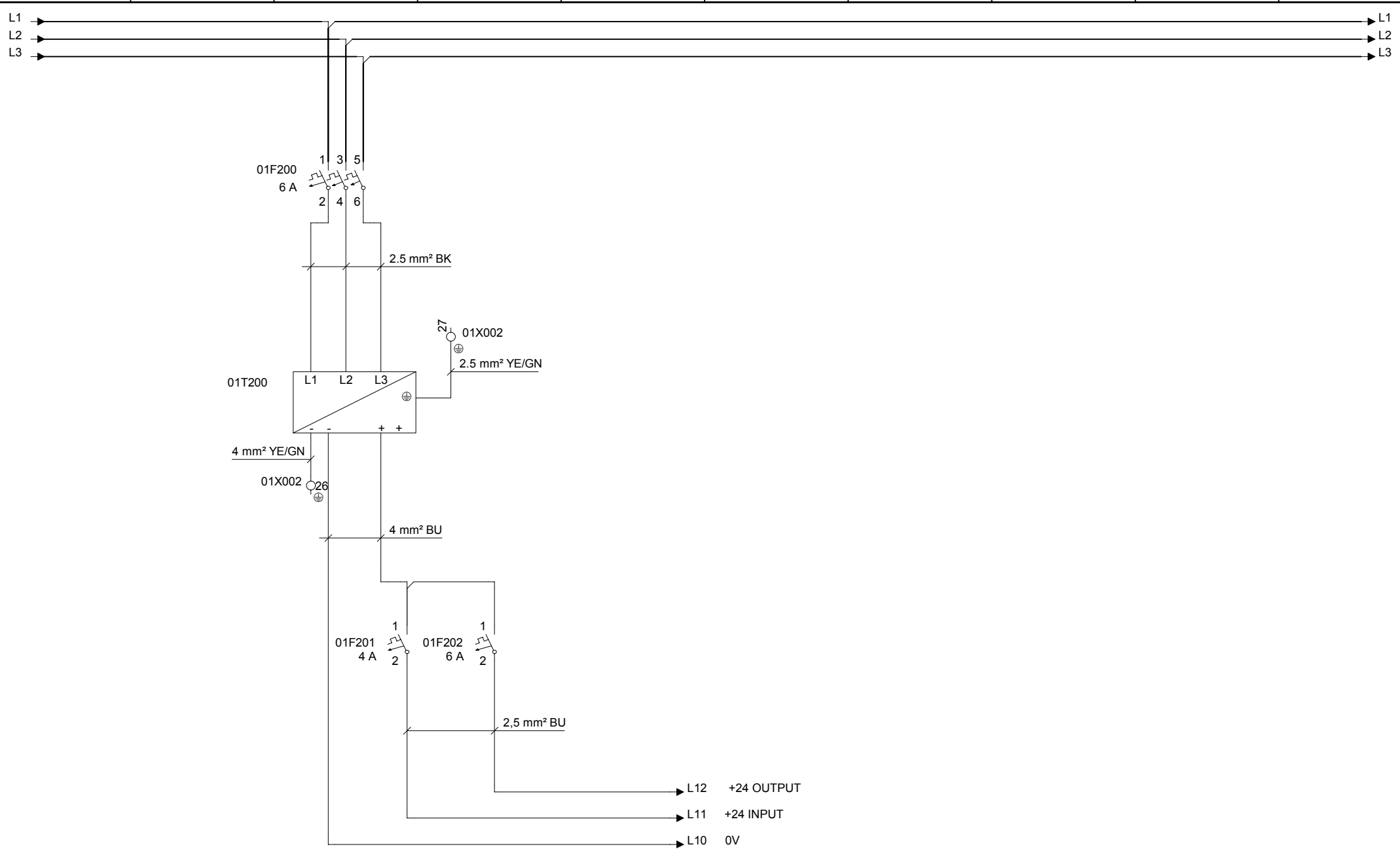
Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)			
ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type MAINS			
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 002	

RELEASED

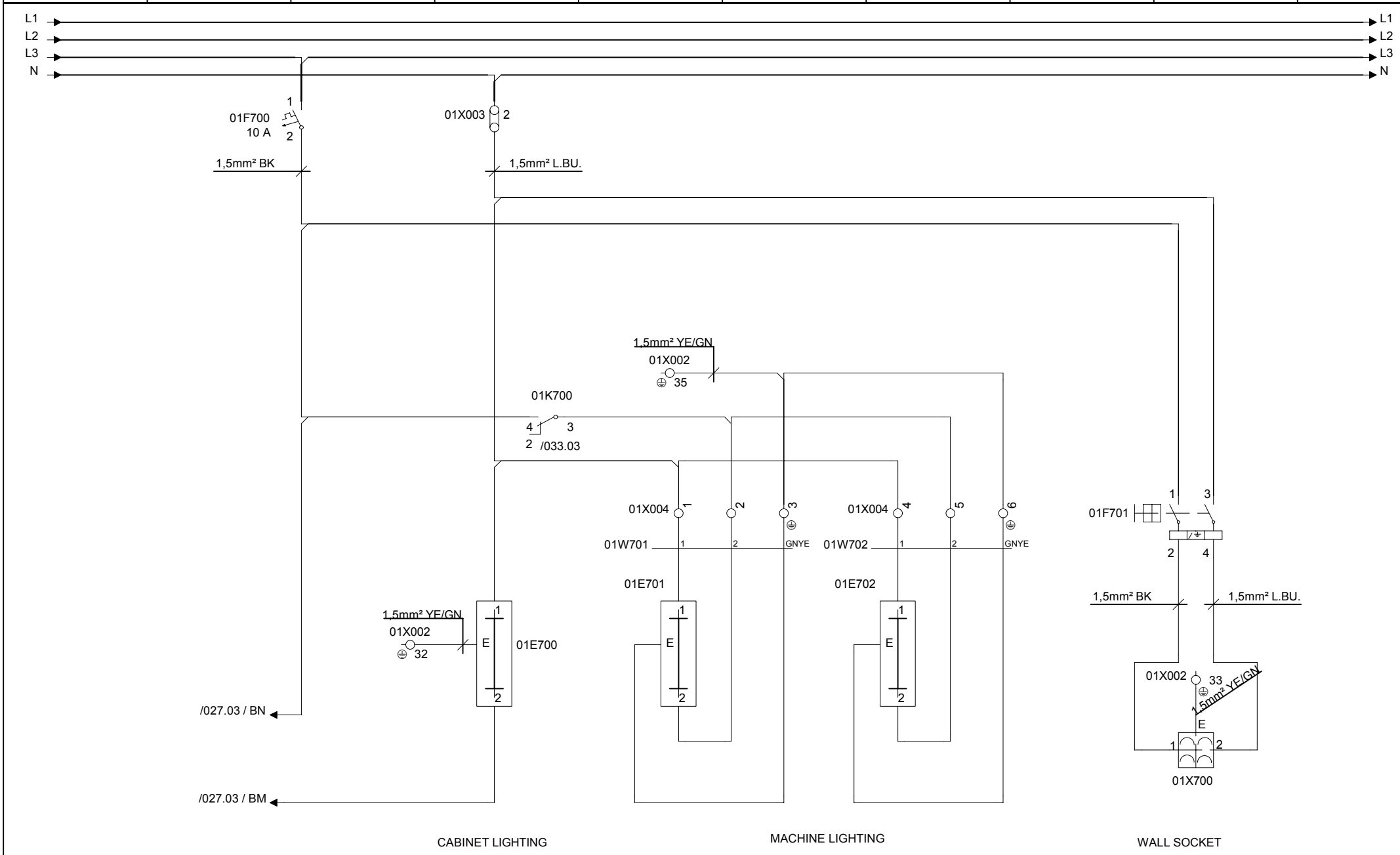
This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.



Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type CONTROL VOLTAGE	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 003

RELEASED

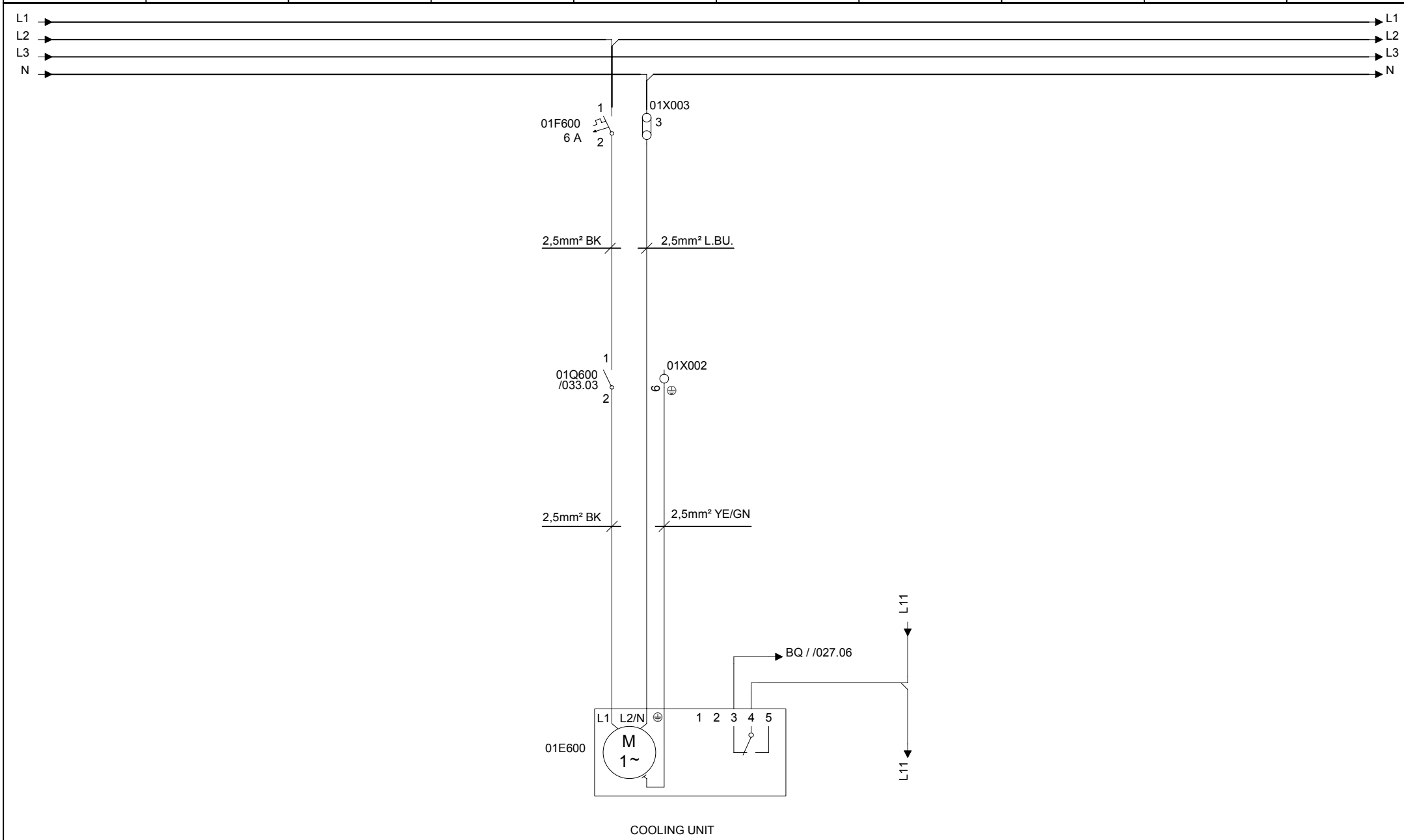
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Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)		
	ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type LIGHT FIXTURES		
Drawing remarks	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 004

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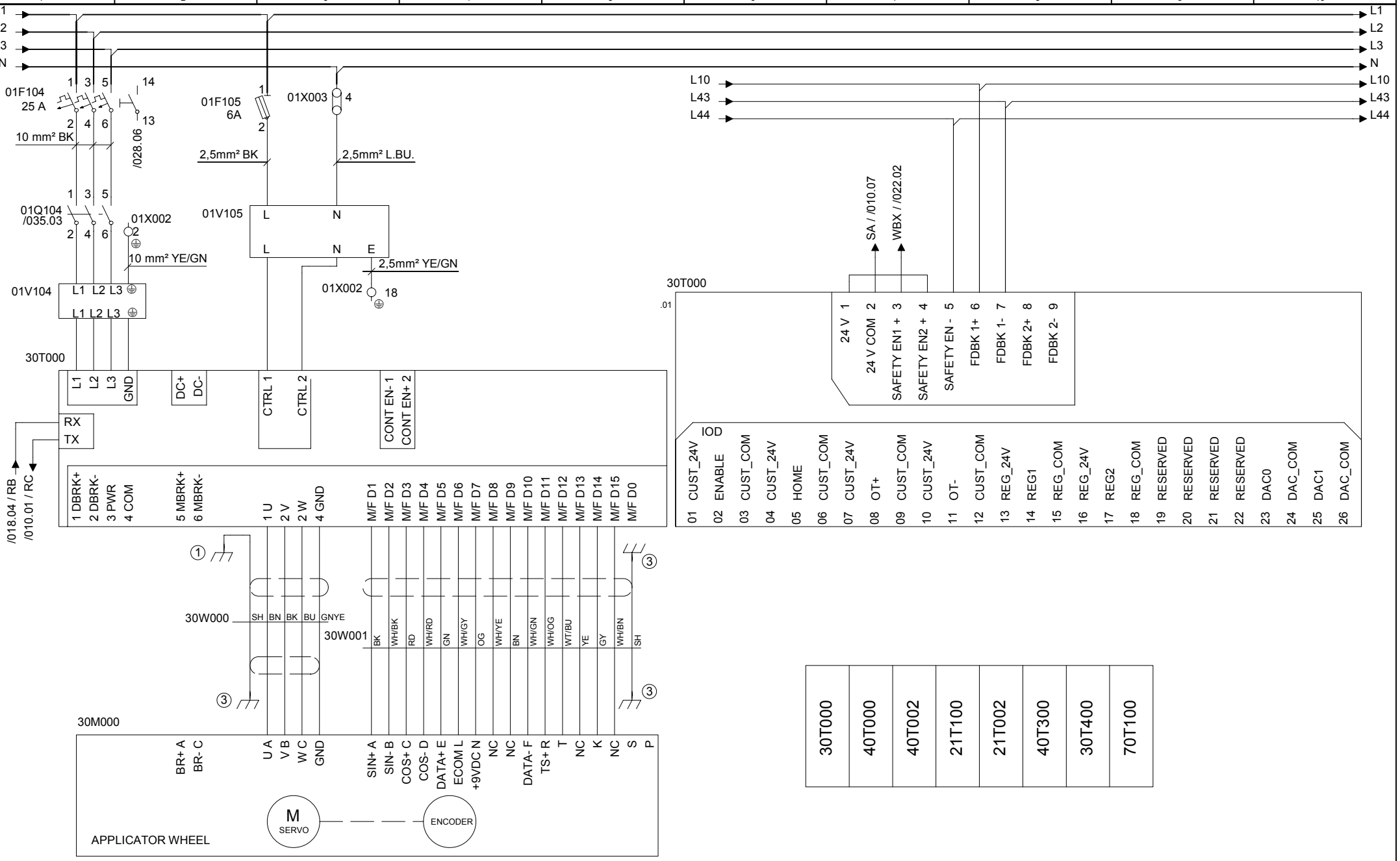


COOLING UNIT

	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type COOLING UNIT	
Drawing remarks		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 005

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30T000	40T000	40T002	21T100	21T002	40T300	30T400	70T100

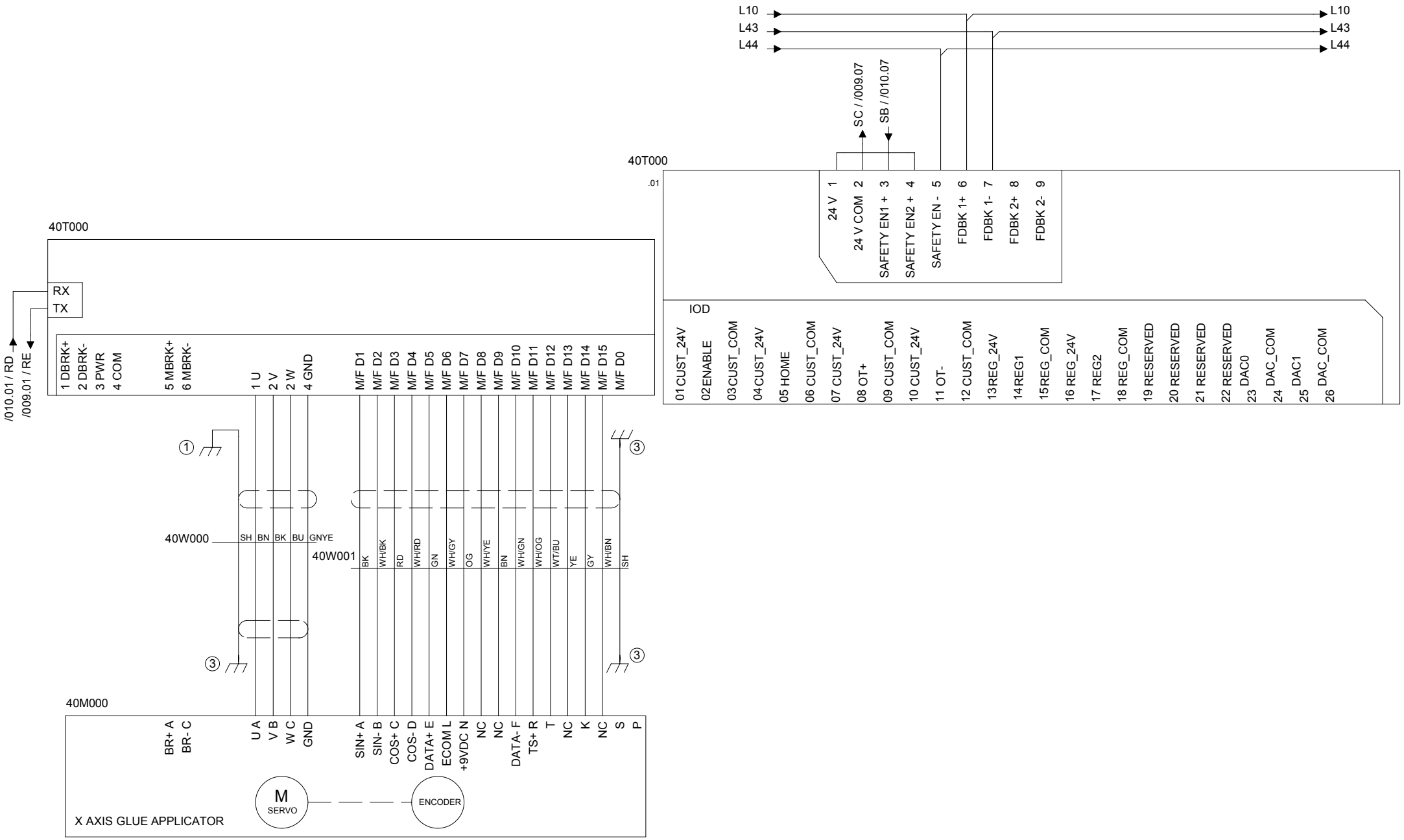
Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type SERVO MOTOR 1 (APPLICATOR WHEEL)	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 006

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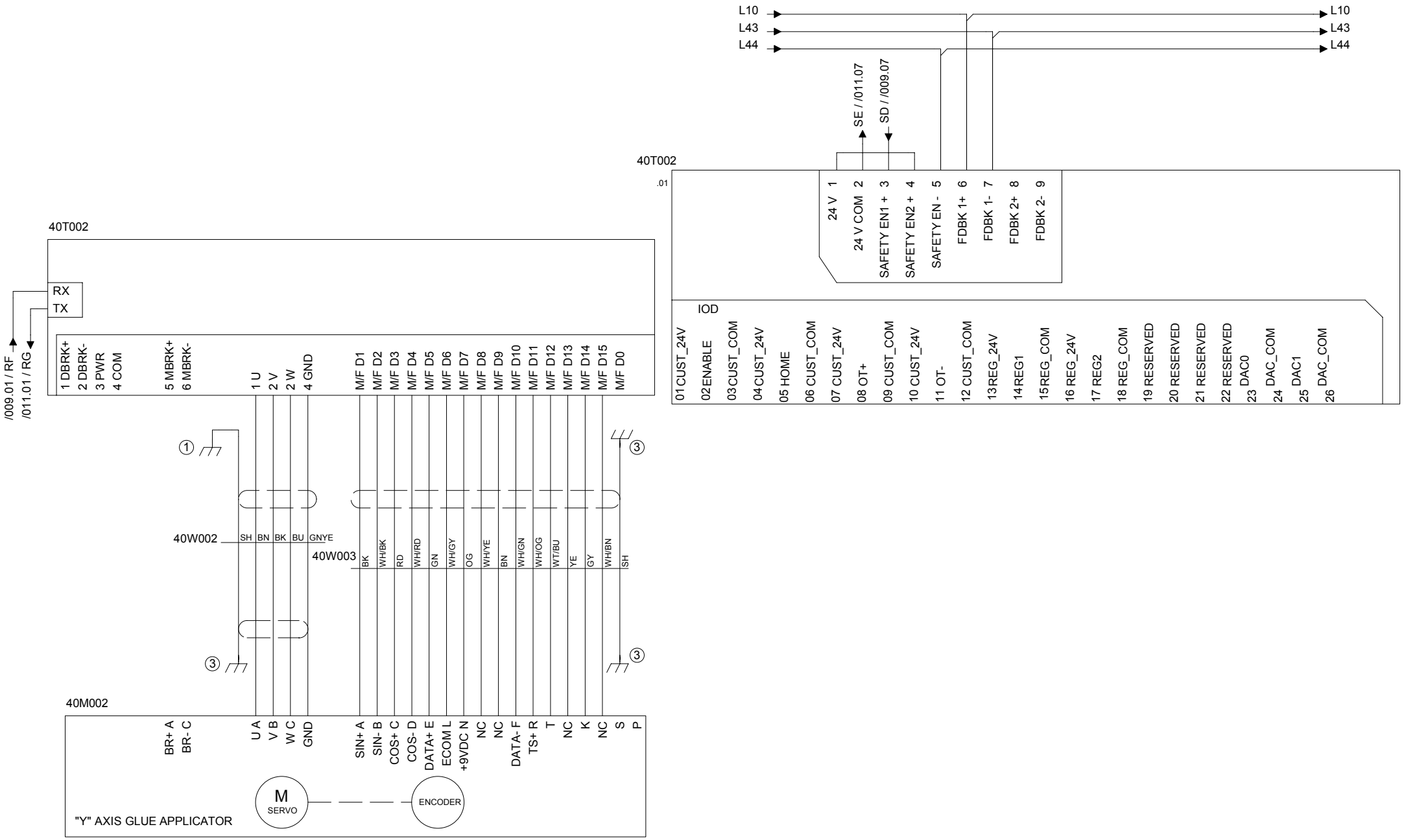
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type SERVO MOTOR 2 (X AXIS GLUE APPL.)	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 007

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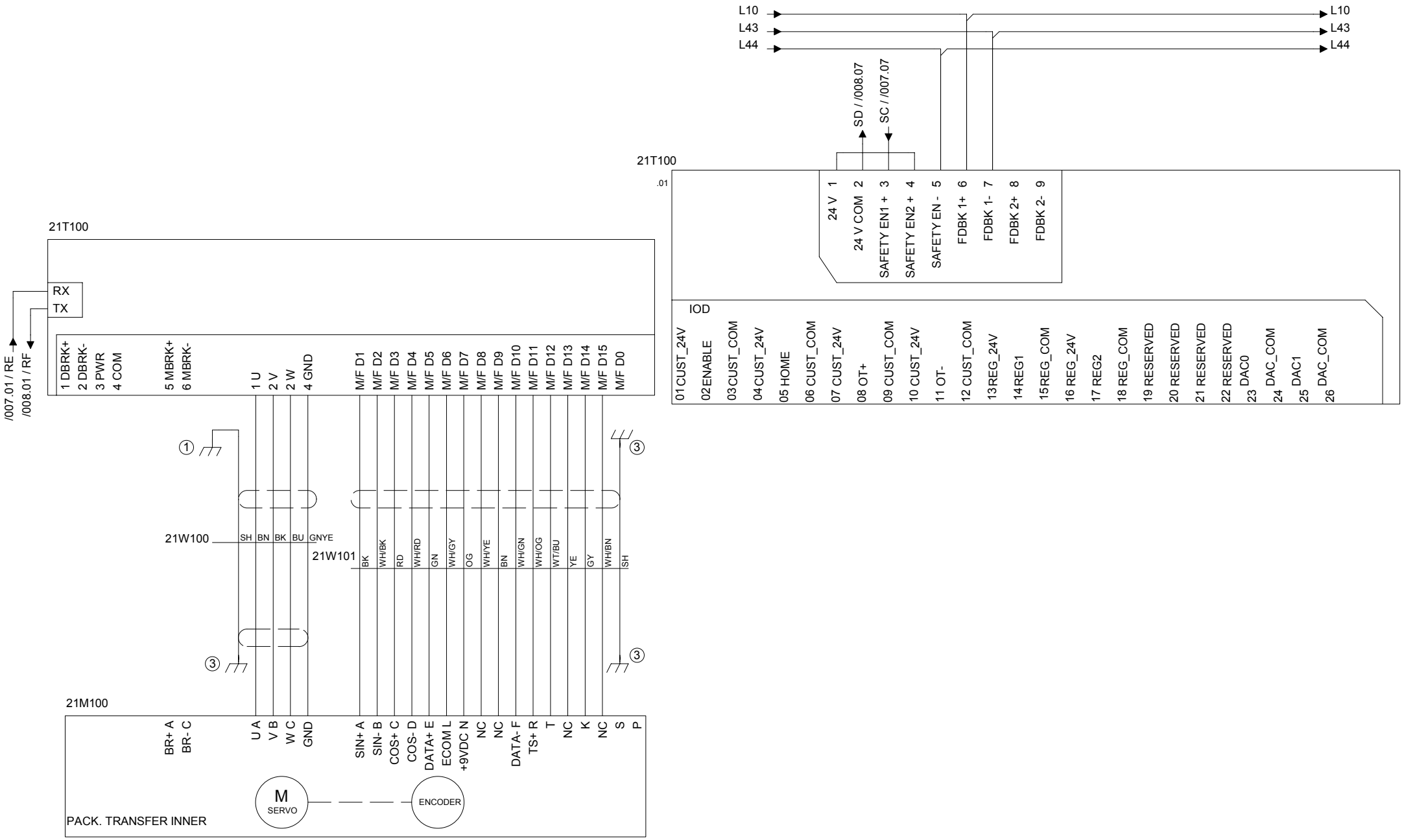
This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.



Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type SERVO MOTOR 3 (Y AXIS GLUE APPL.)	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 008

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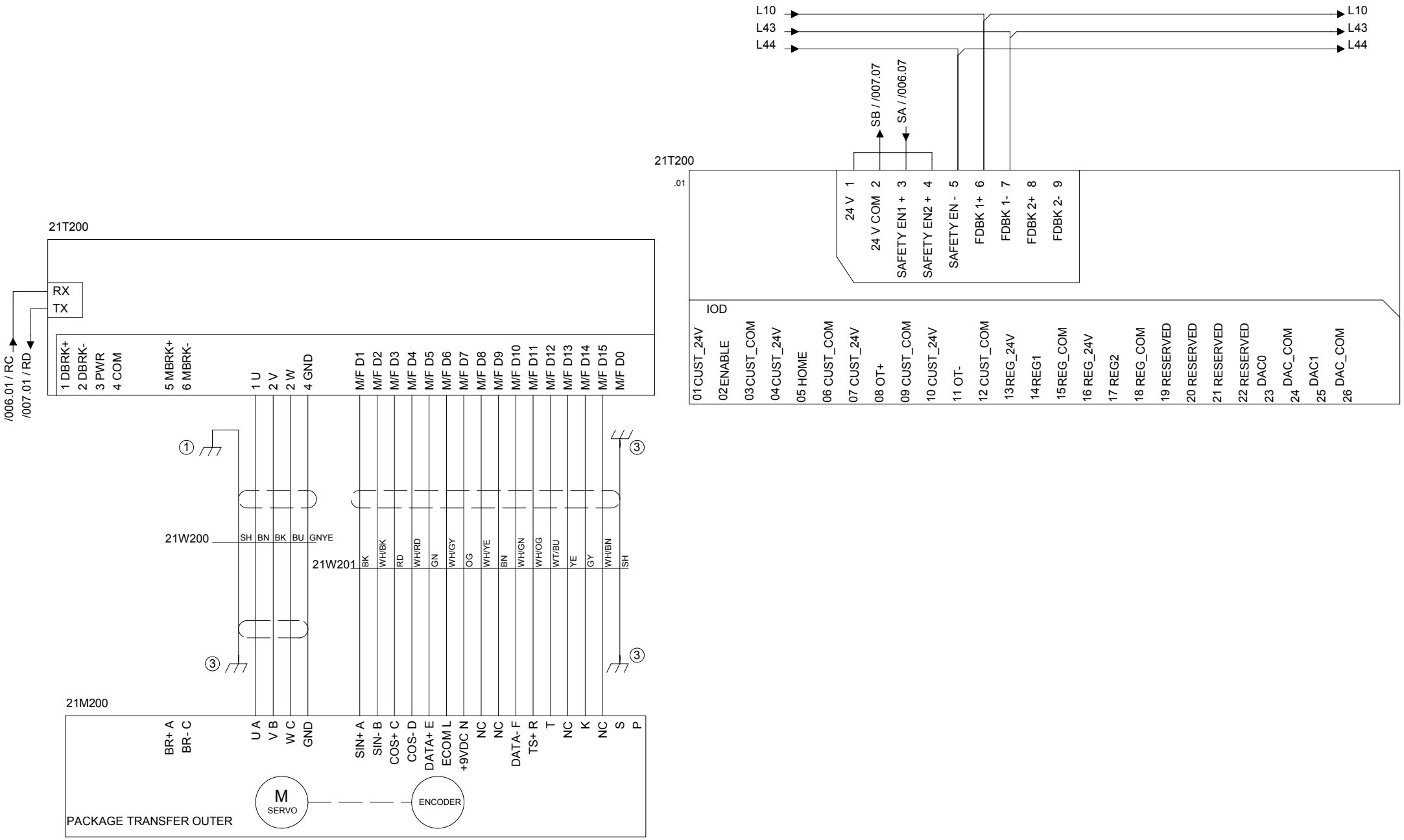
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type SERVO MOTOR 4 (PACK. TRANSFER INNER)	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 009

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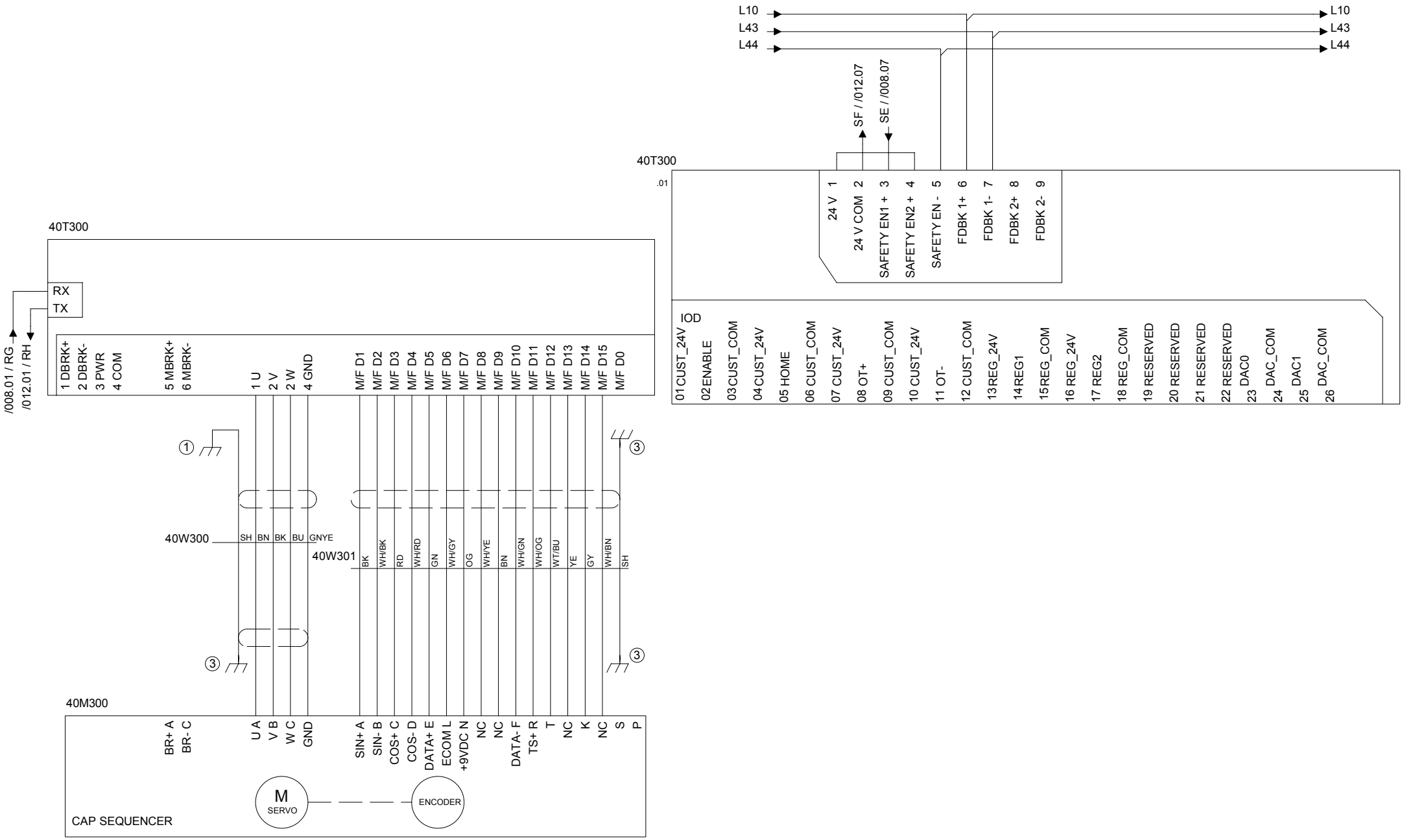
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type SERVO MOTOR 5 (PACK.TRANSFER OUTER)	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 010

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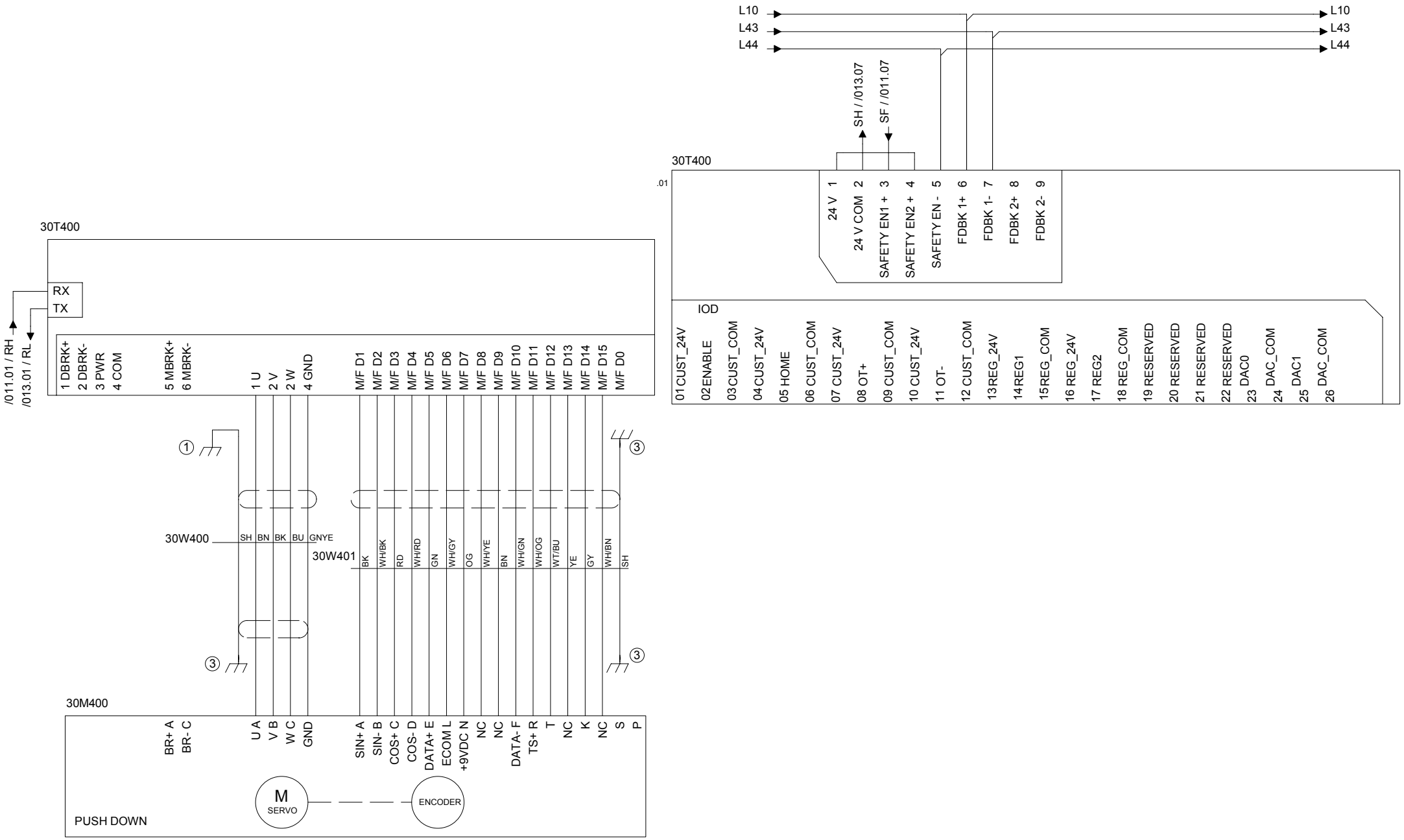
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type SERVO MOTOR 6 (CAP SEQUENCER)	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 011

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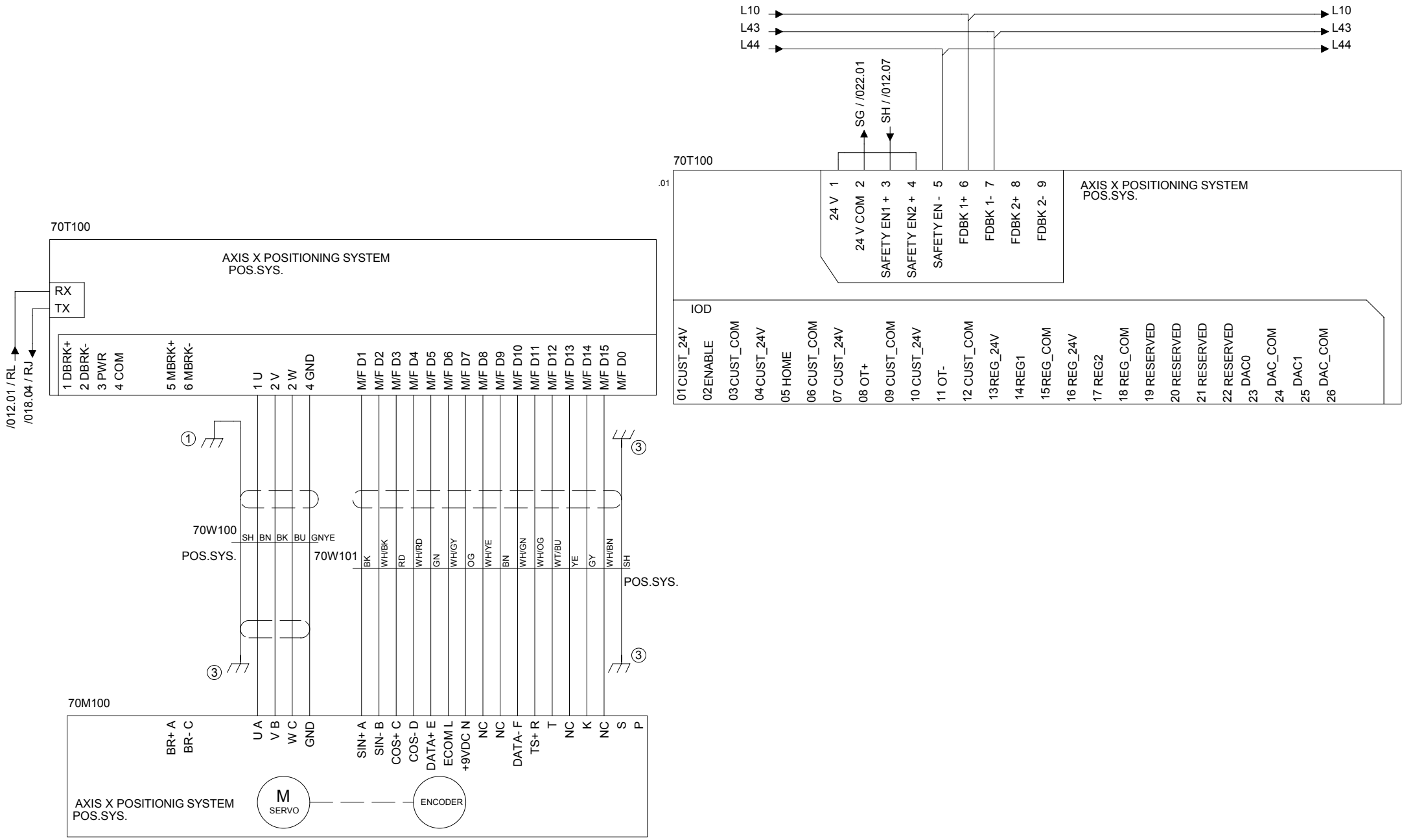
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type SERVO MOTOR 7 (PUSH DOWN)	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 012

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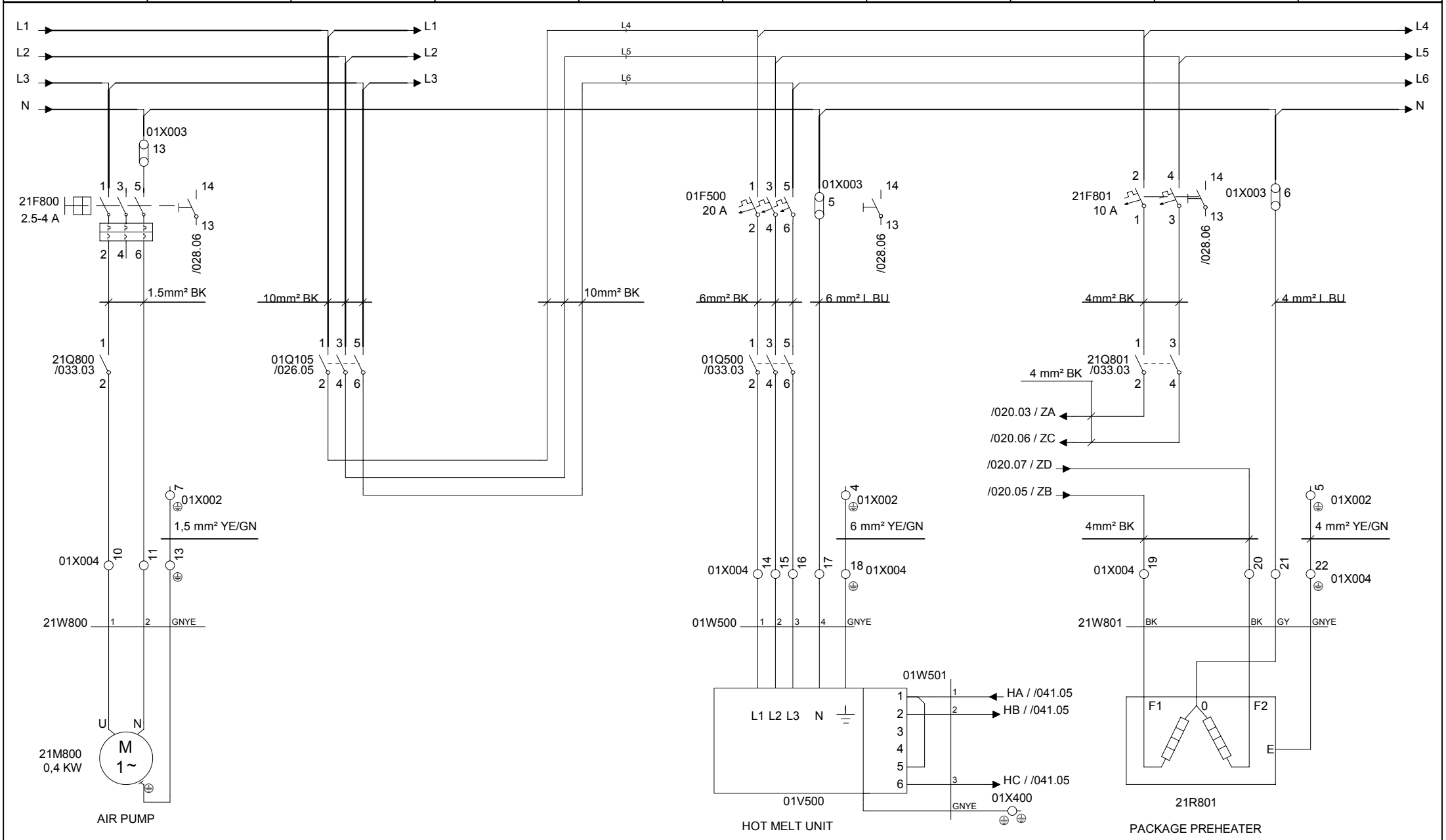
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type SERVO MOTOR 8 (AXIS X POSITIONING SYS.)	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 013

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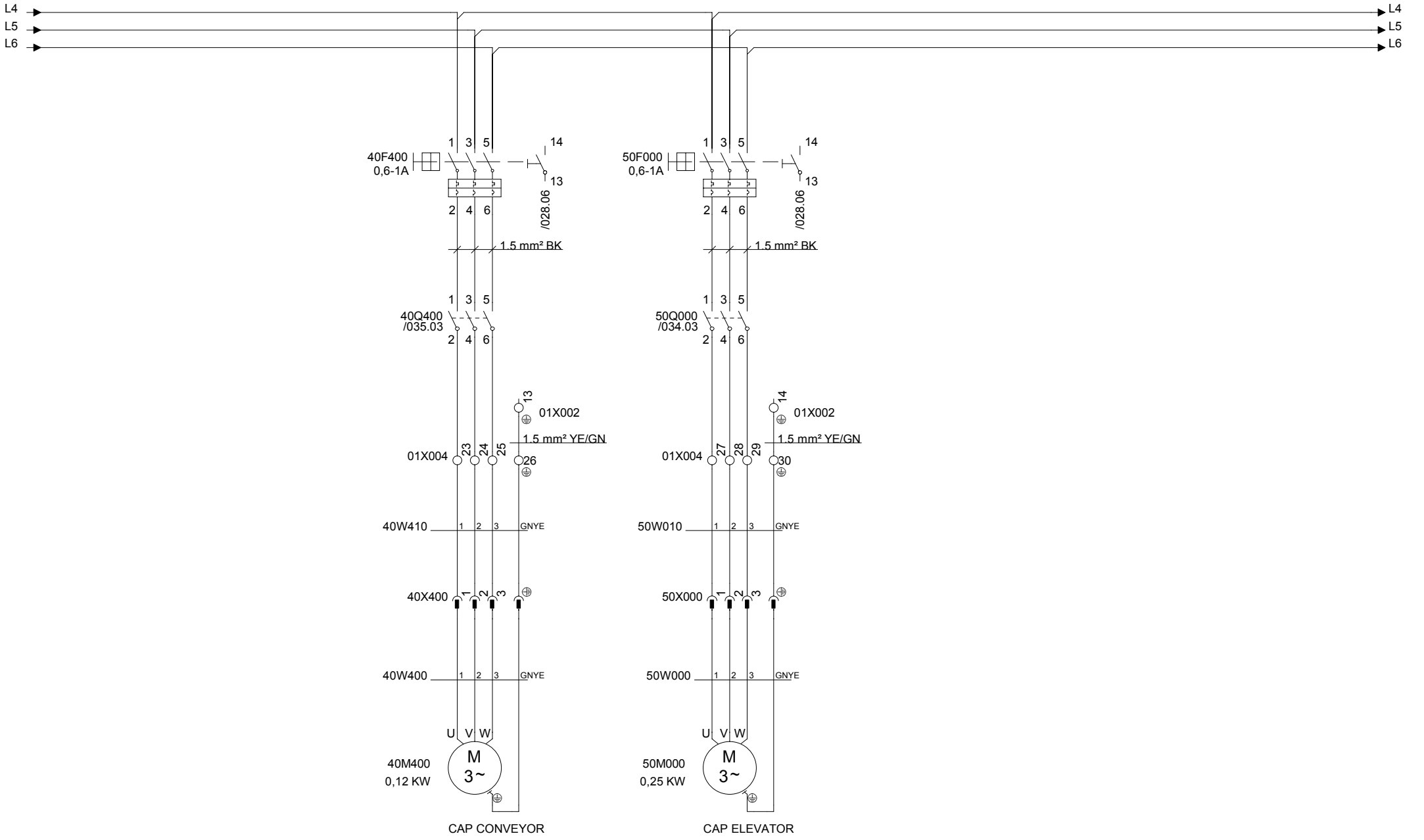
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 014

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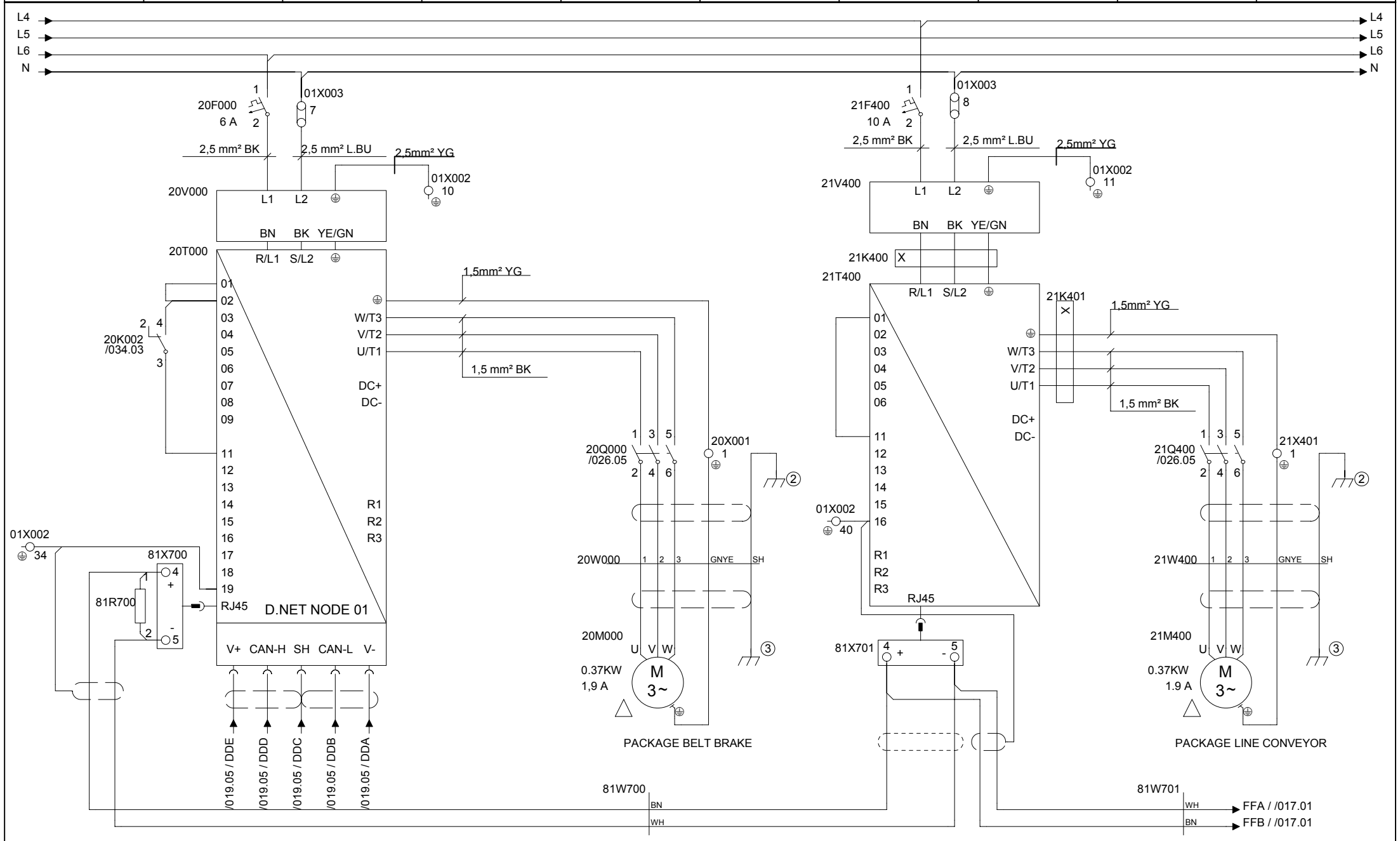
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Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)		
	ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type MOTORS REMOTE CABINET		
Drawing remarks	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 015

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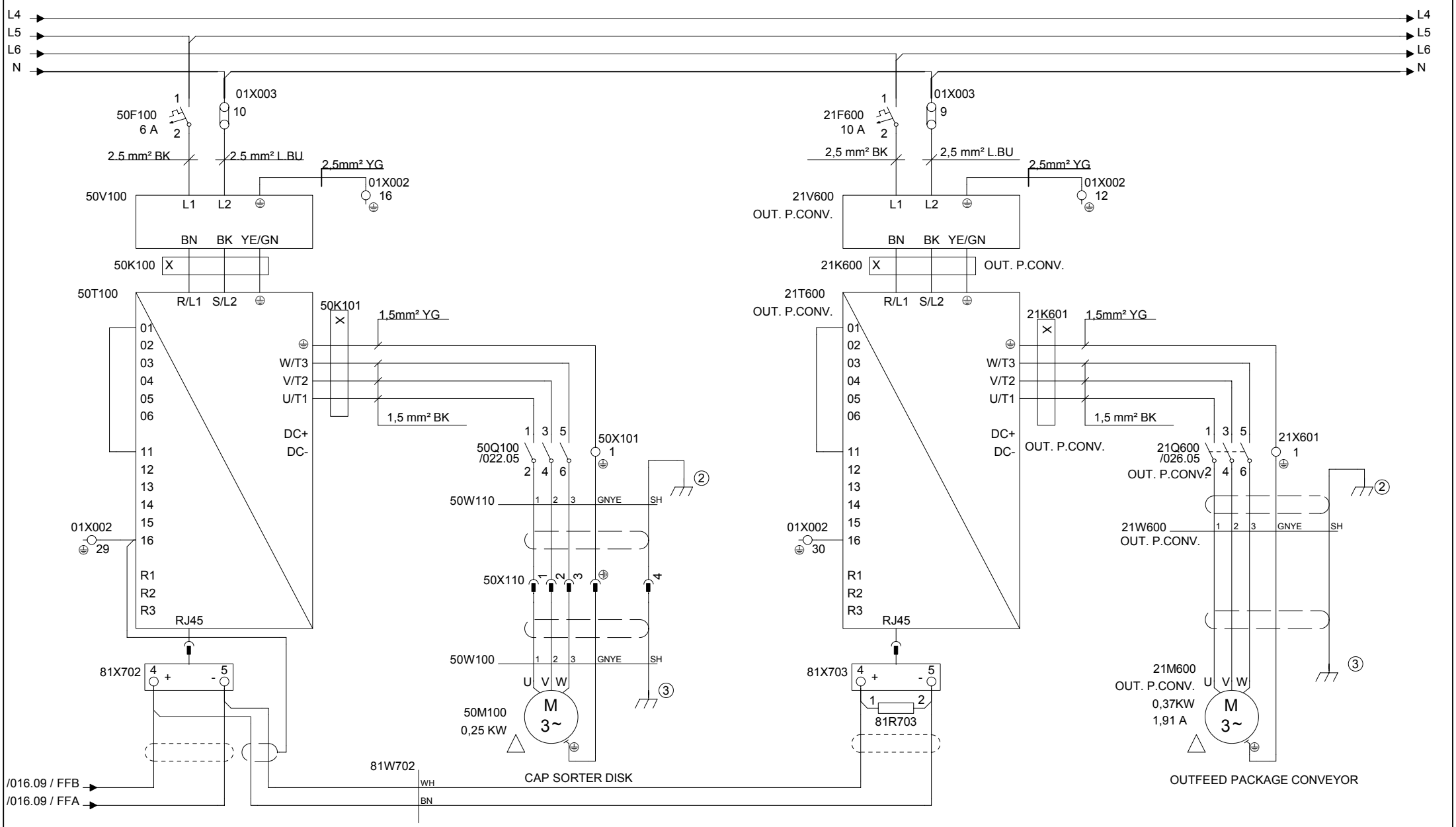
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 016

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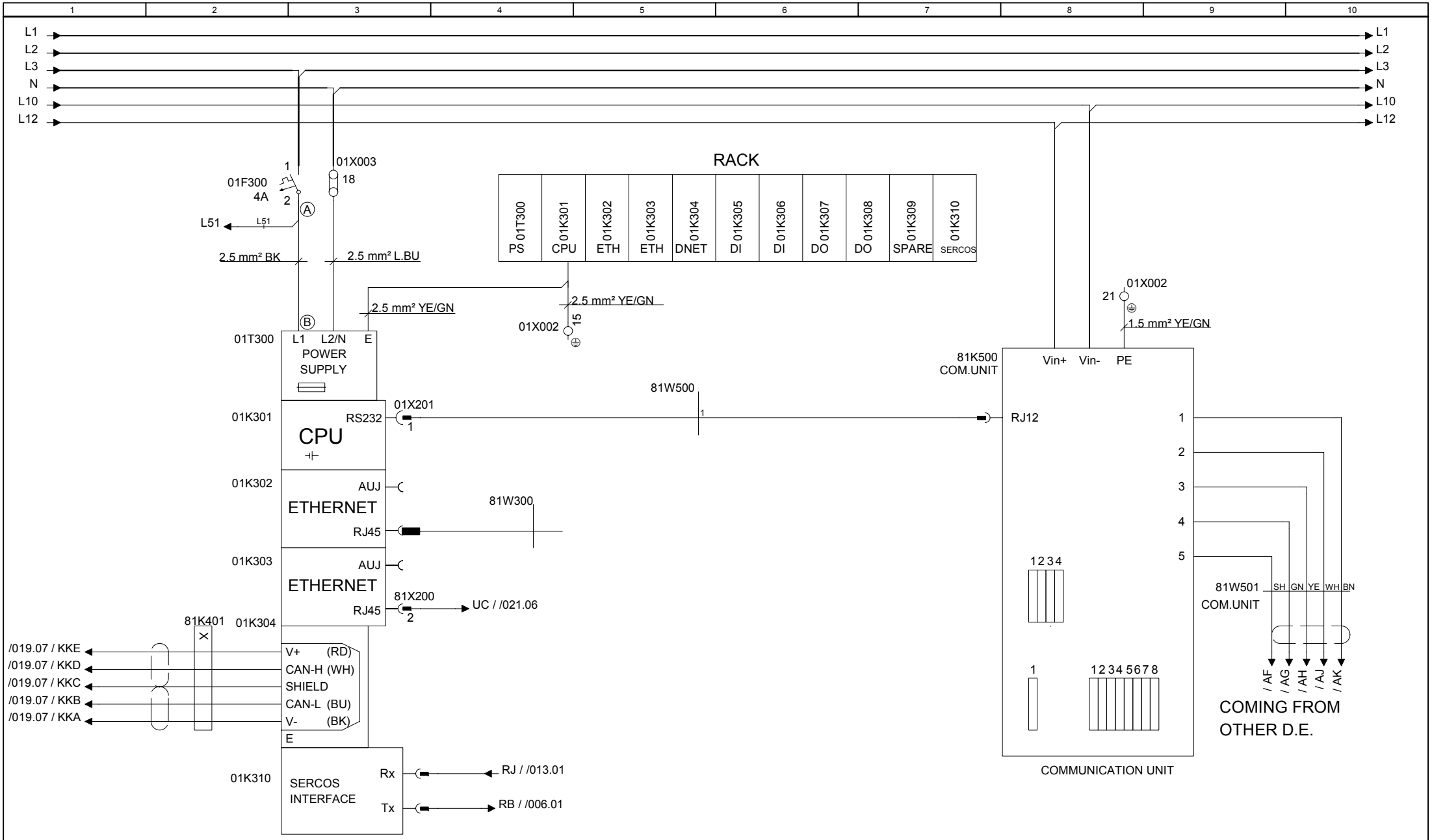
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 017

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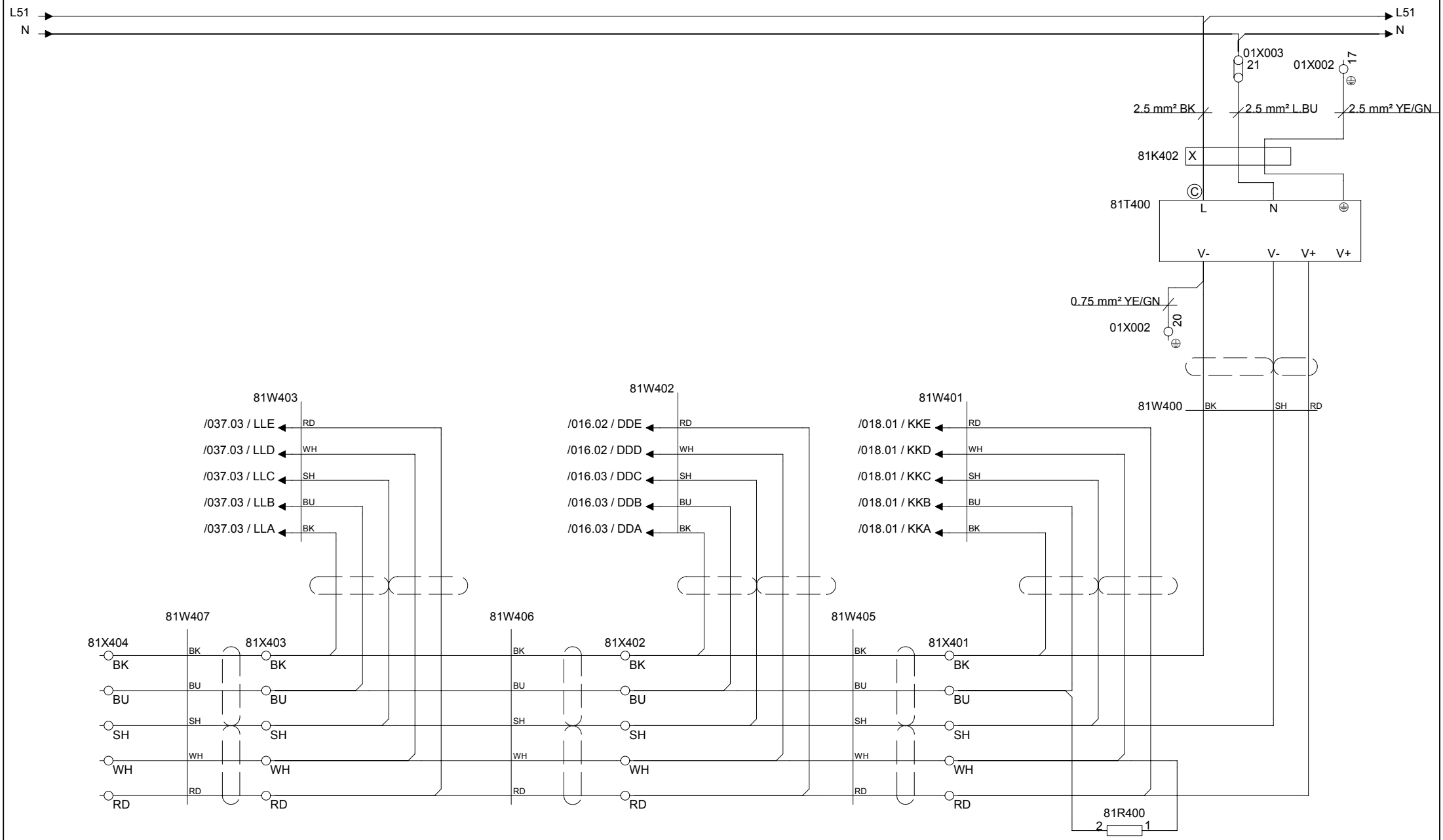
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type PLC RACK	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 018

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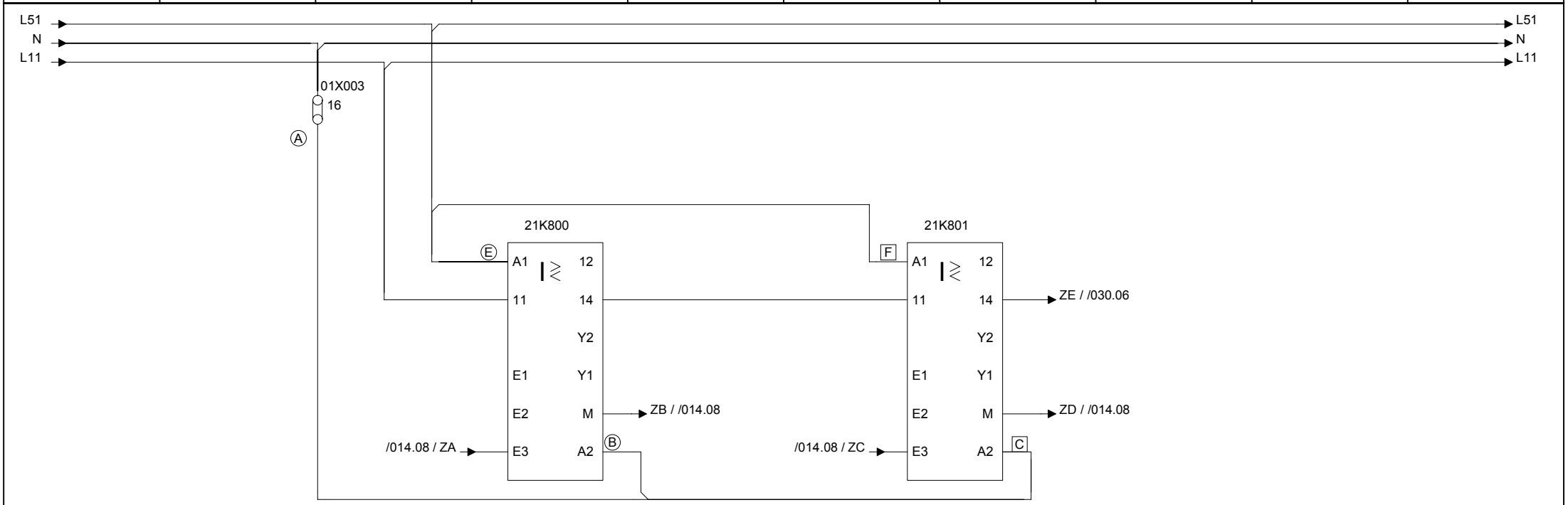
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type POWER SUPPLY DEVICE NET	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 019

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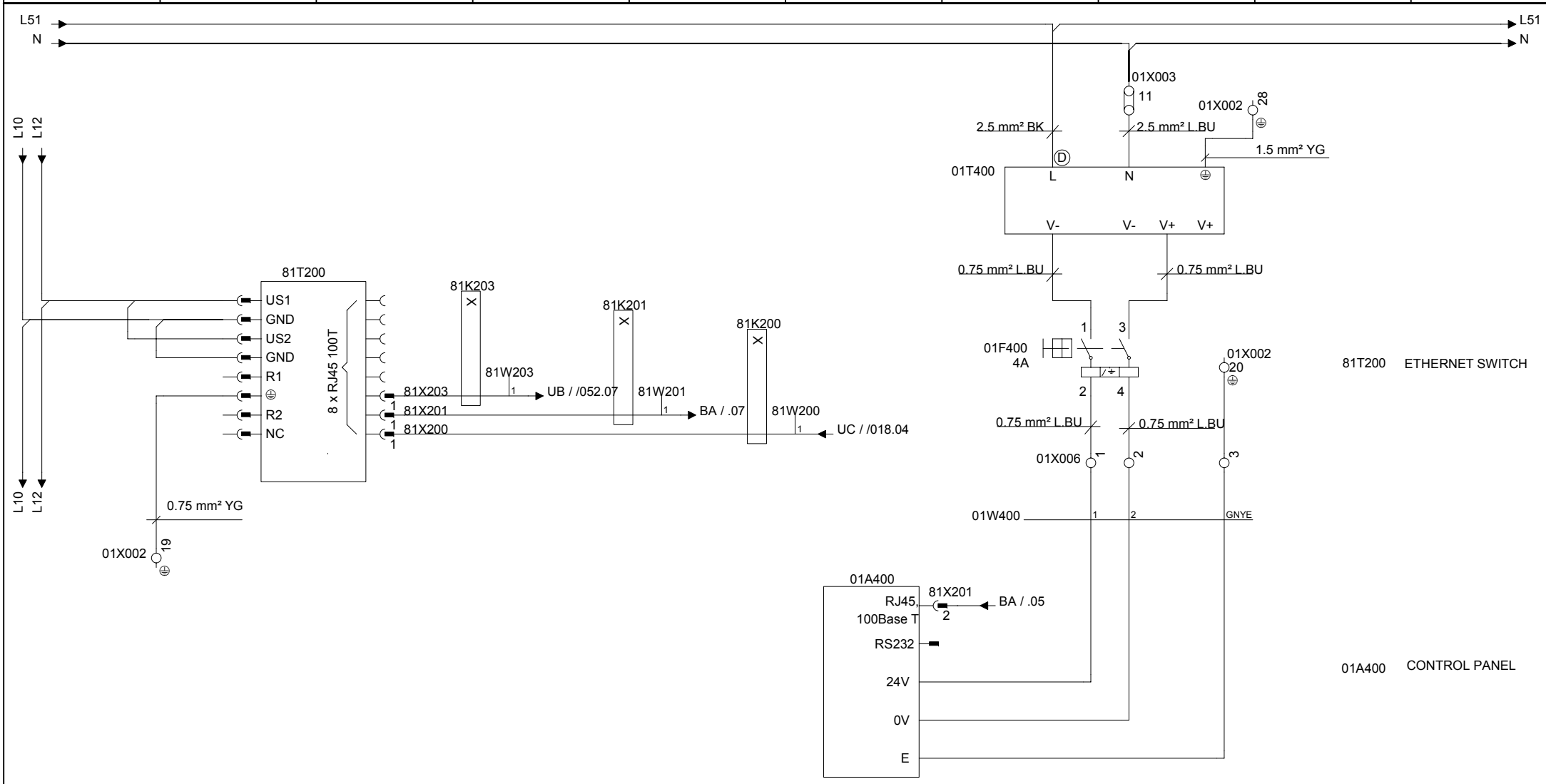
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type CURRENT CONTROL RELAY	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 020

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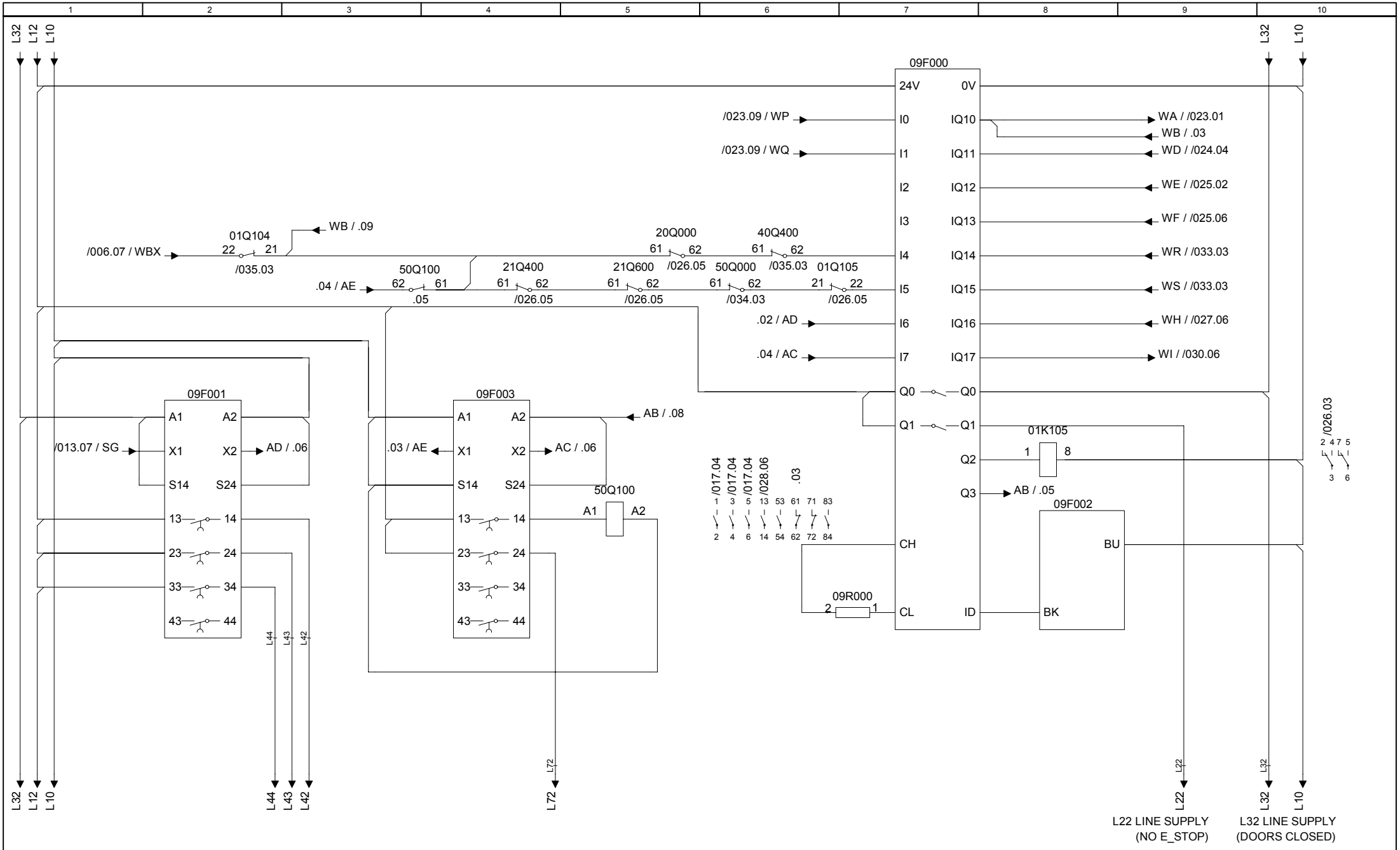
This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.



Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type ETHERNET SWITCH / CONTROL PANEL	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 021

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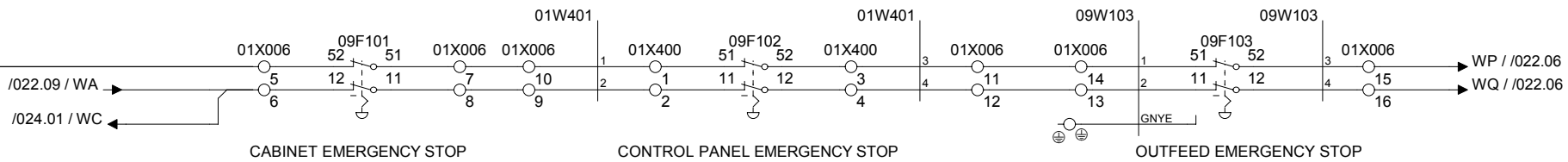
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type SAFETY RELAY	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 022

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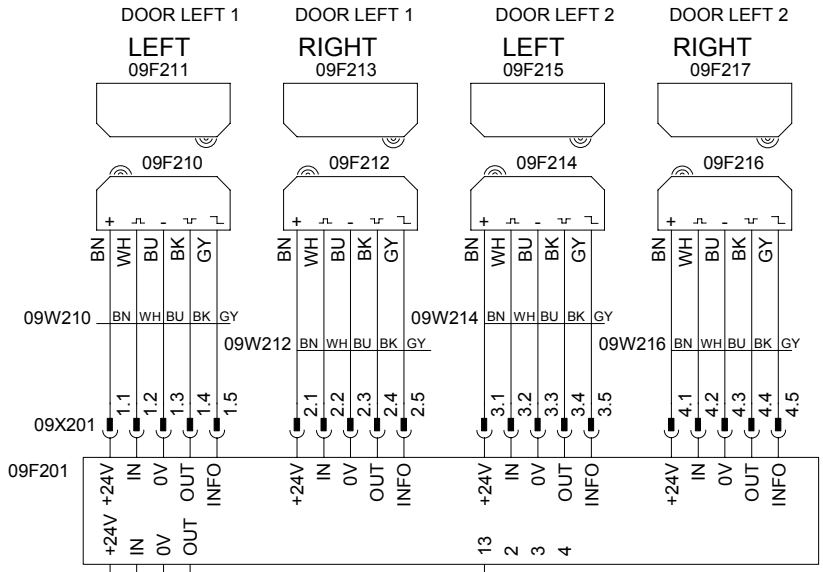
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type EMERGENCY STOP	
	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 023

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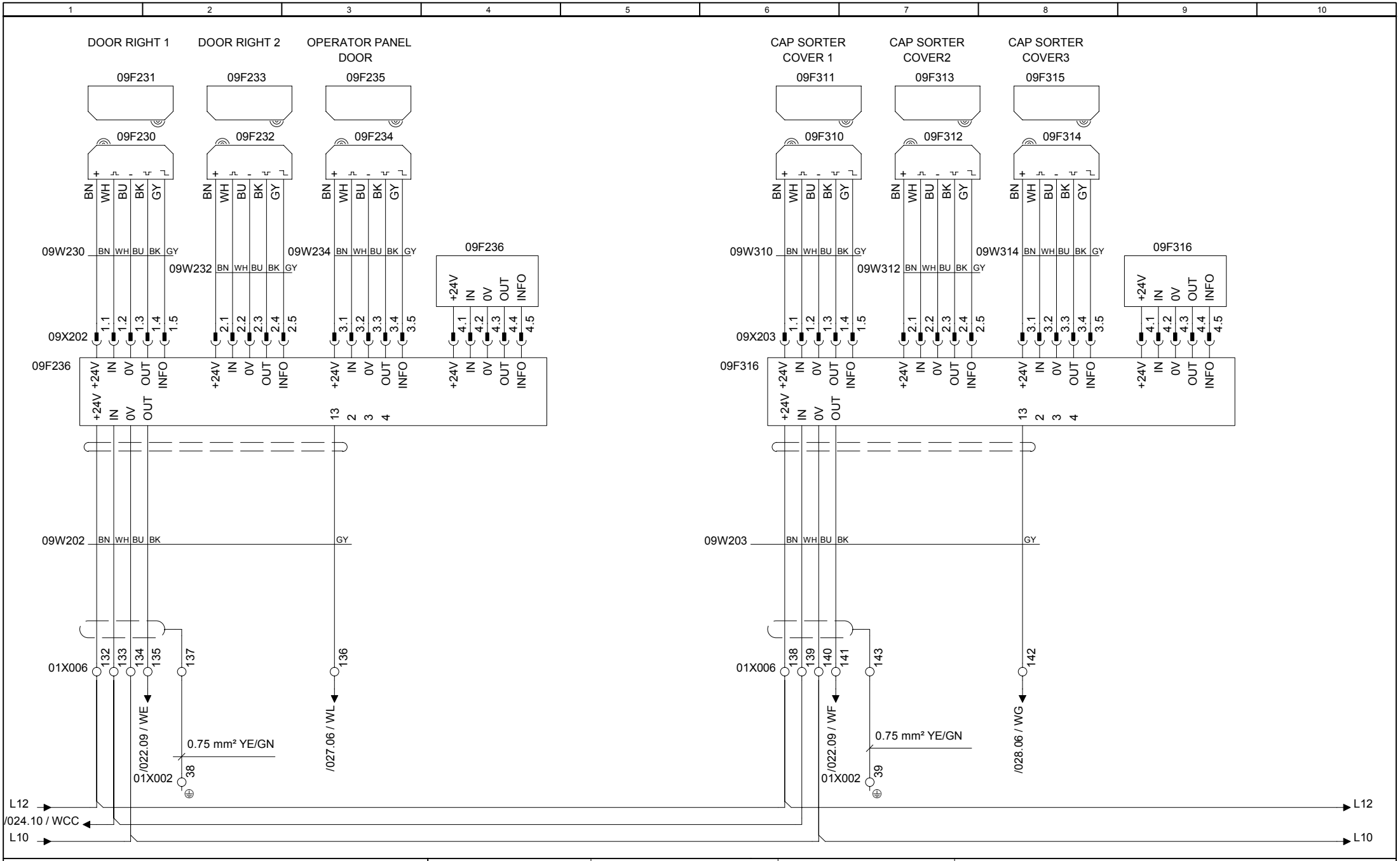


L10 — L10
/023.02 / WC — WCC / /025.01
L12 — L12

Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type DOORS MONITOR (OPERATOR SIDE)	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 024

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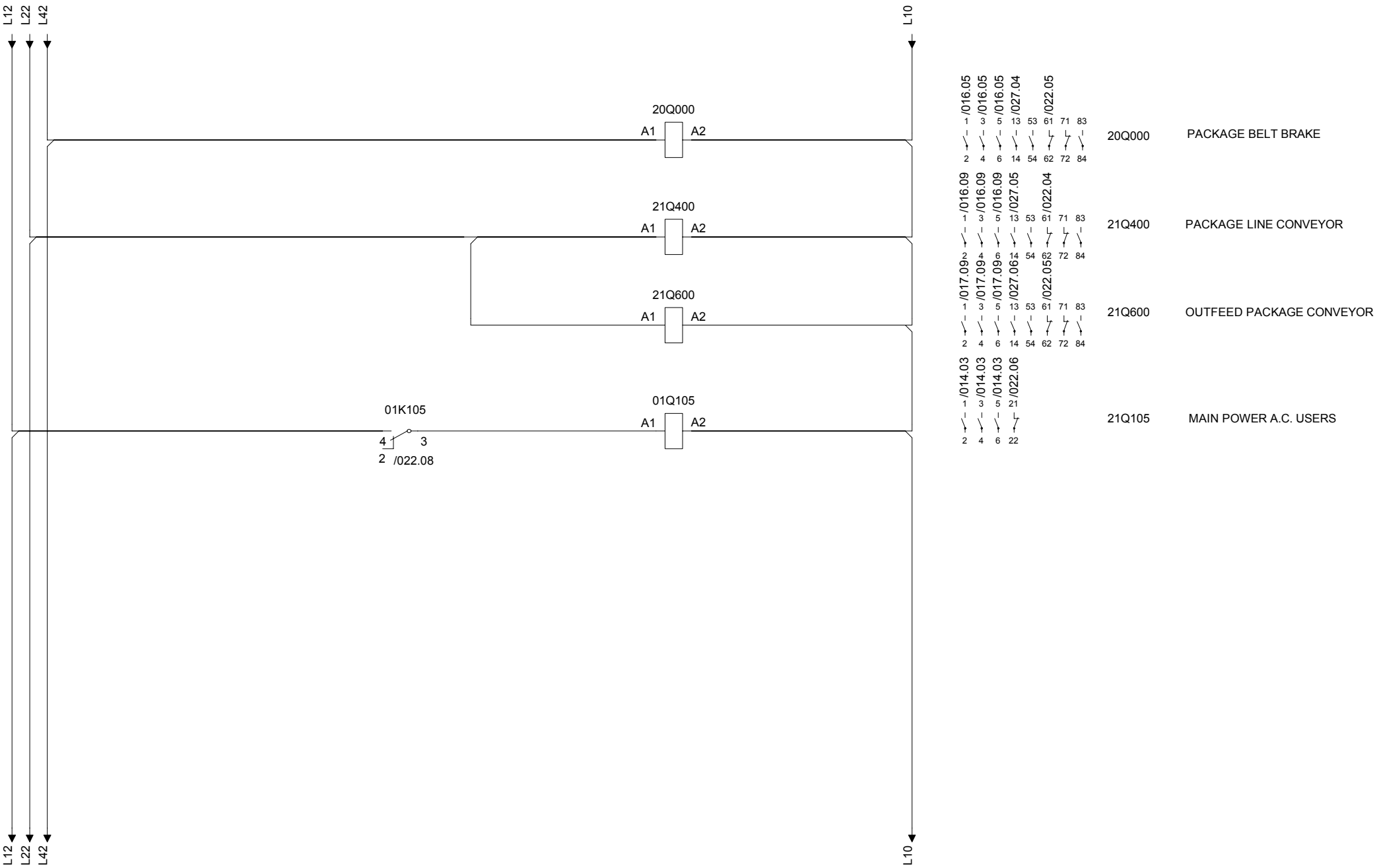
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type DOORS AND COVERS MONITOR	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 025

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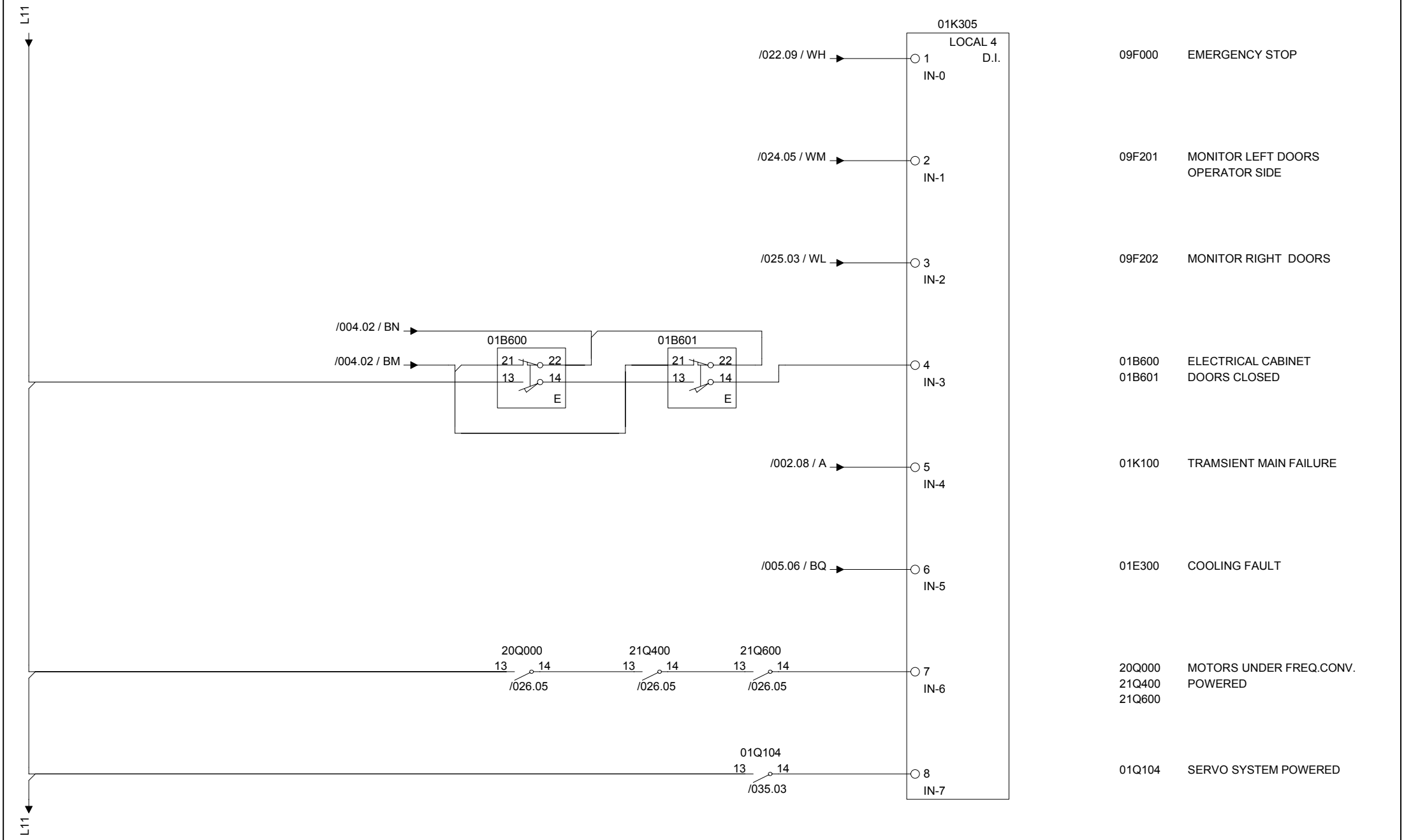
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type POWER ON TO THE MOTORS	
	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 026

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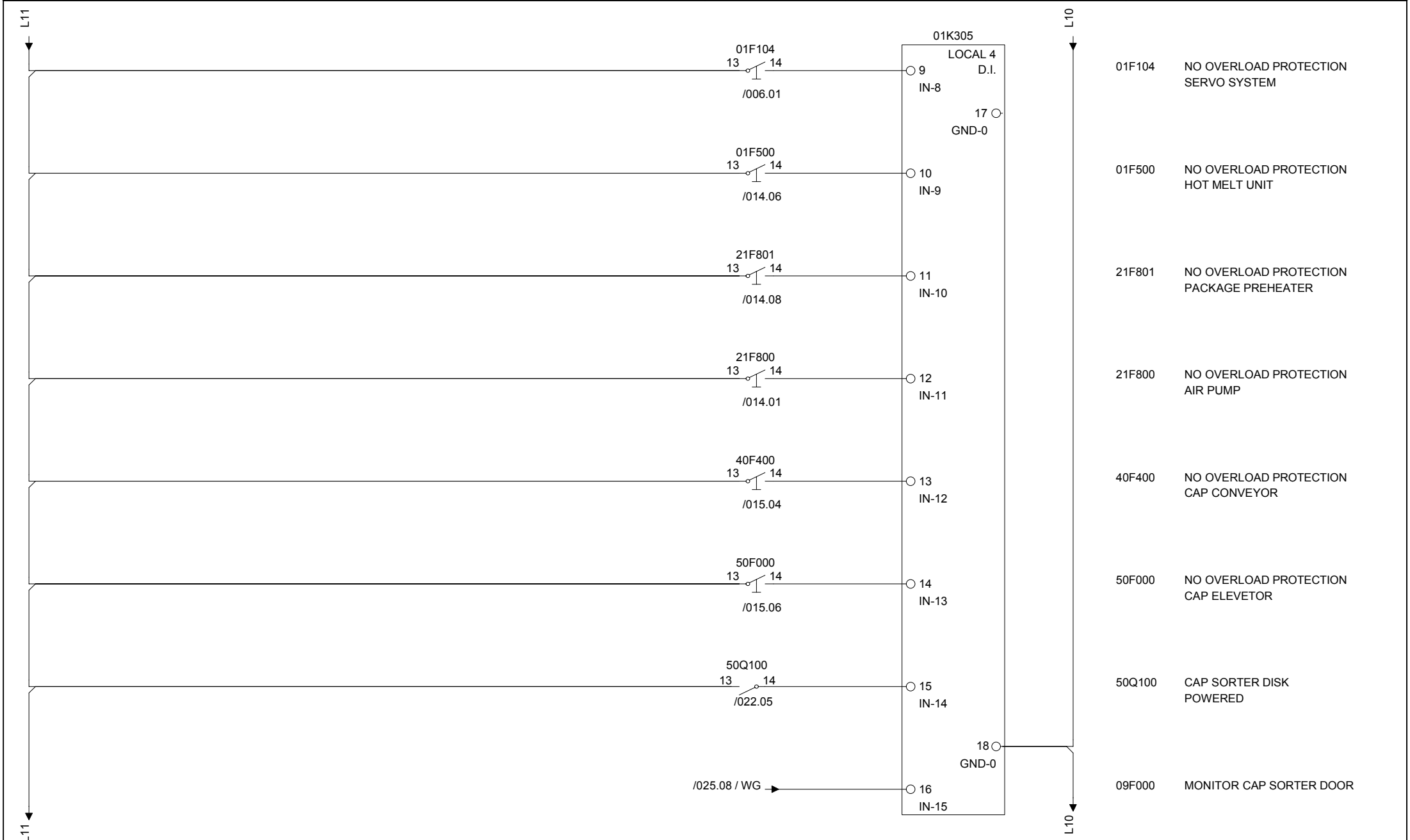
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type PLC IN	
	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 027

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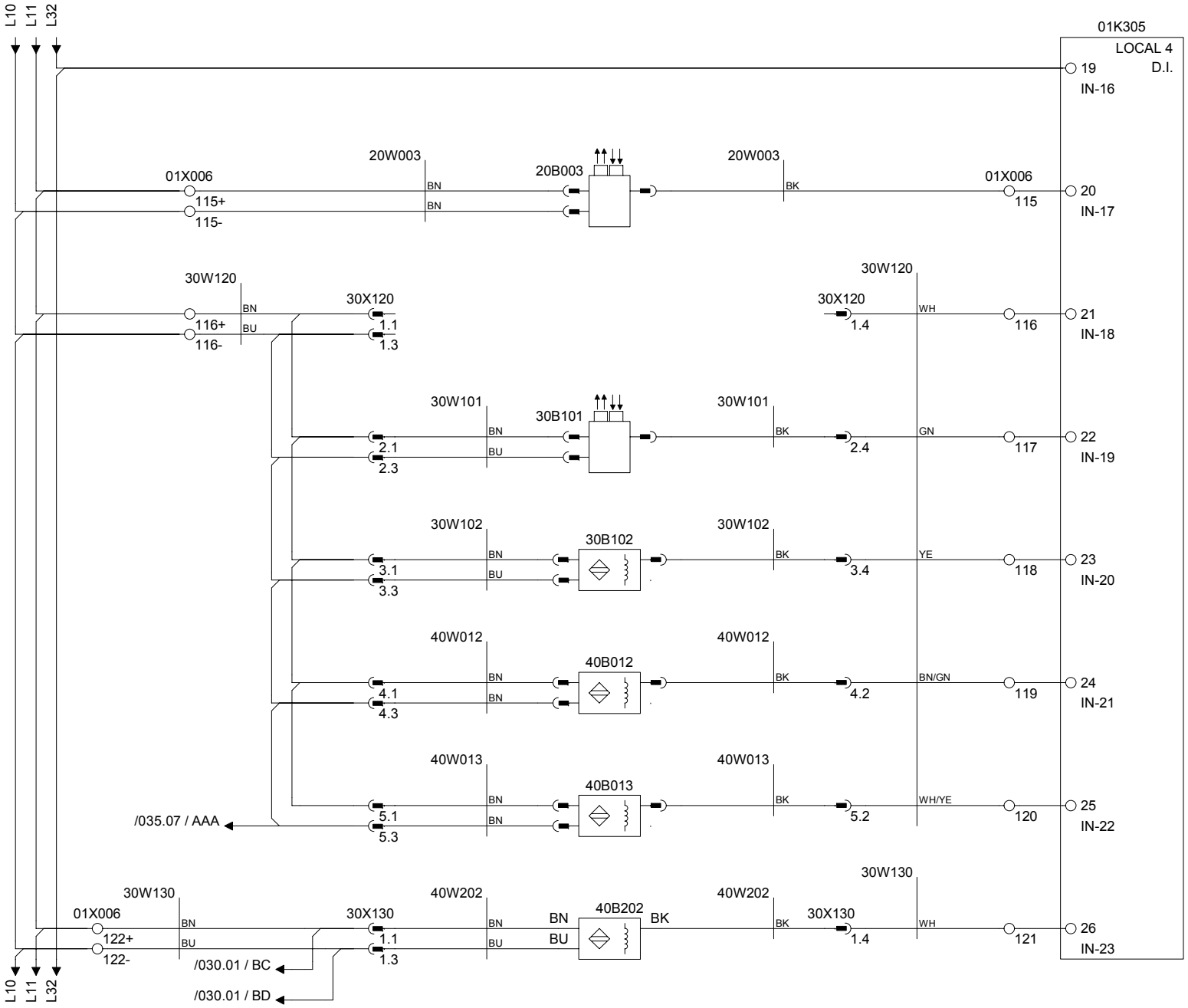
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type PLC IN
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD / Version AA / Page 028

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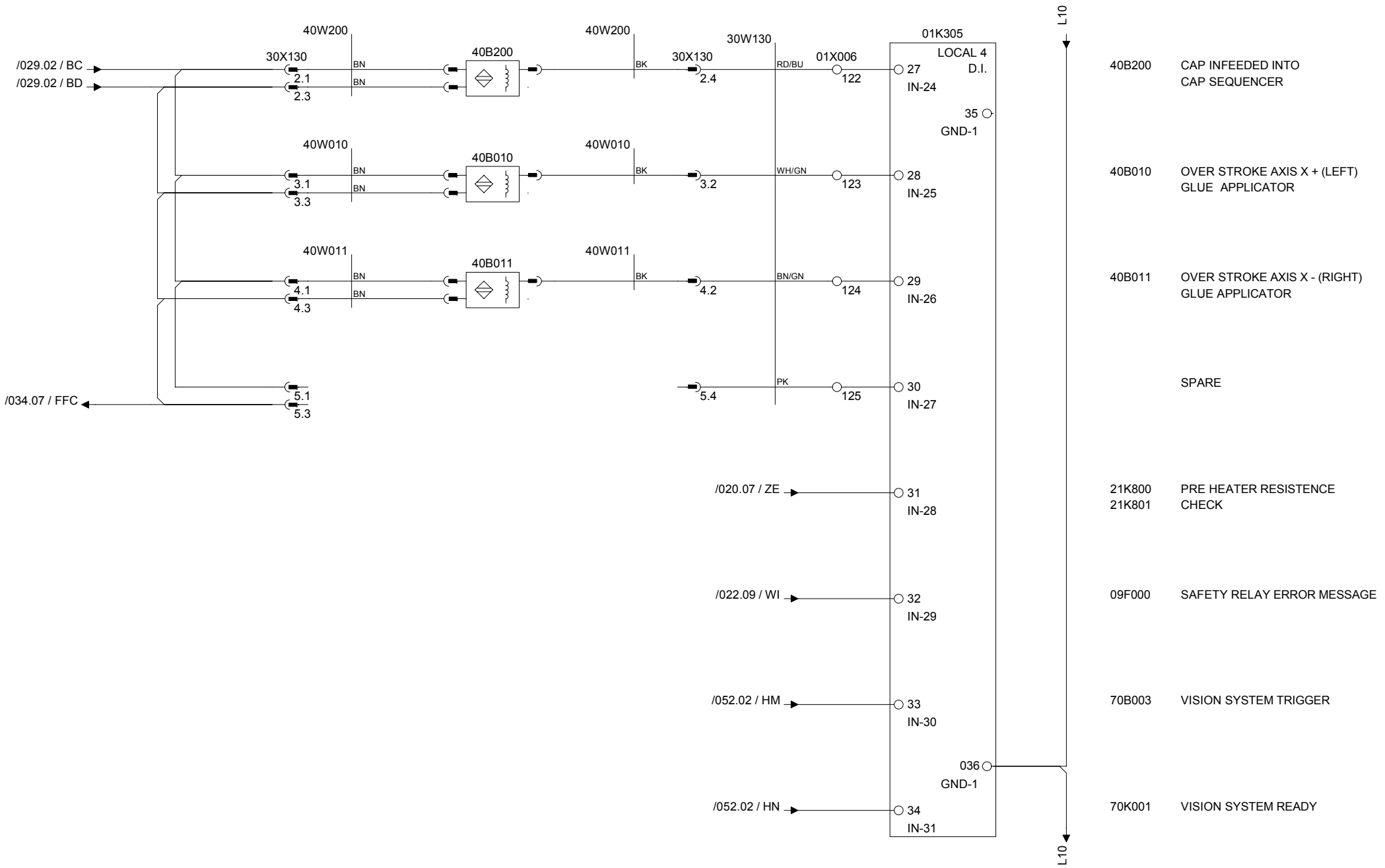
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type PLC IN	
	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 029

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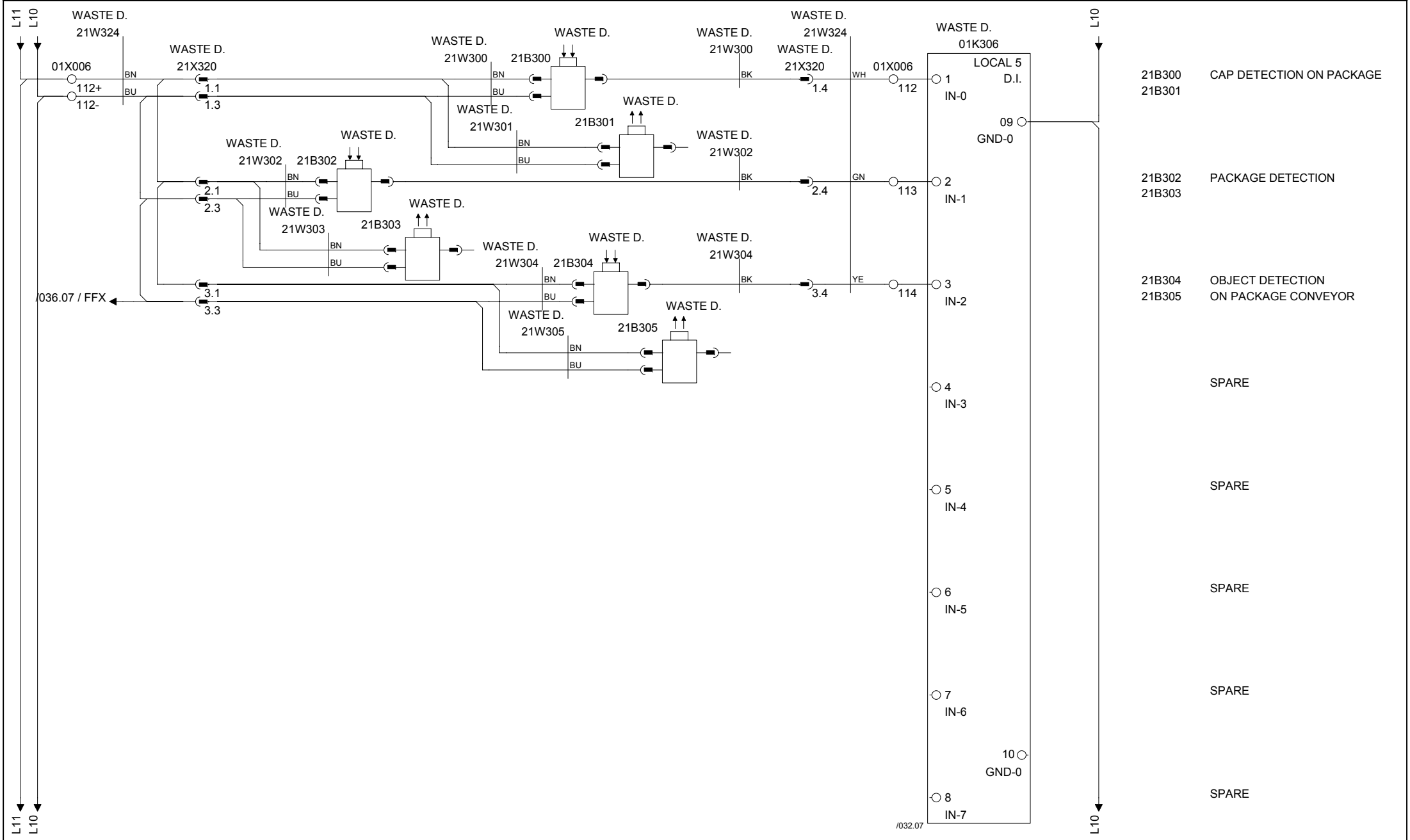
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type PLC IN
	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 030

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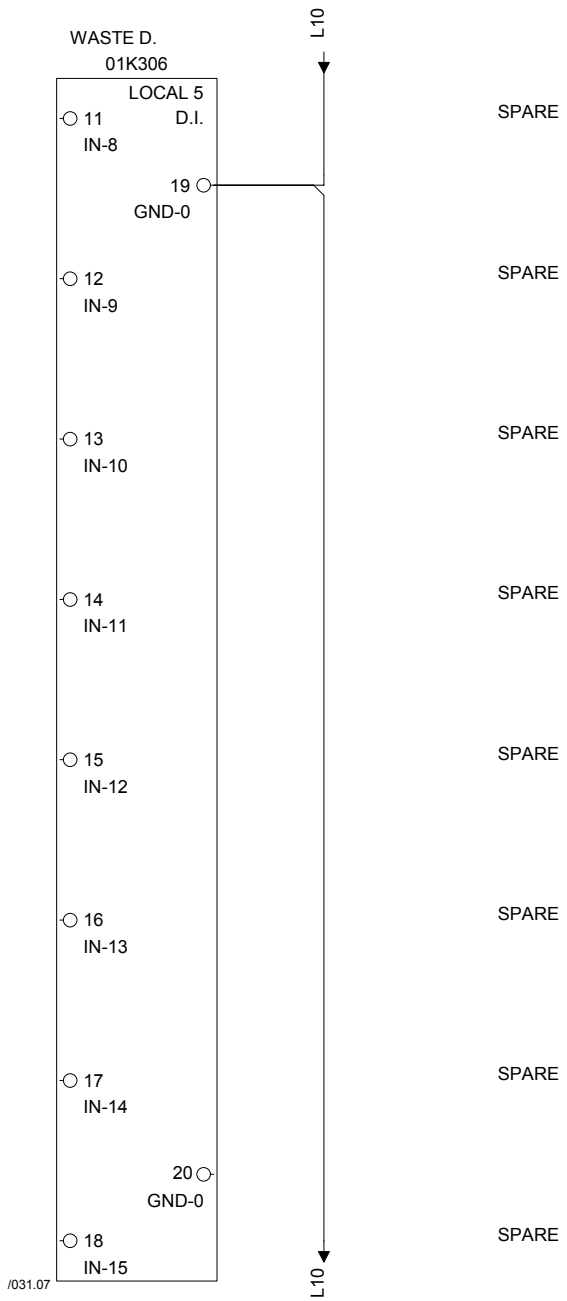
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21B300 21B301	CAP DETECTION ON PACKAGE
21B302 21B303	PACKAGE DETECTION
21B304 21B305	OBJECT DETECTION ON PACKAGE CONVEYOR
	SPARE
	SPARE
	SPARE
	SPARE
	SPARE

Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)			
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type PLC IN (WASTE DEVICE) OPTIONAL			
	Company Tetra Pak Carton Ambient S.p.A		Document No. 2858294-0003	Doc. type ELD	Version AA	Page 031	

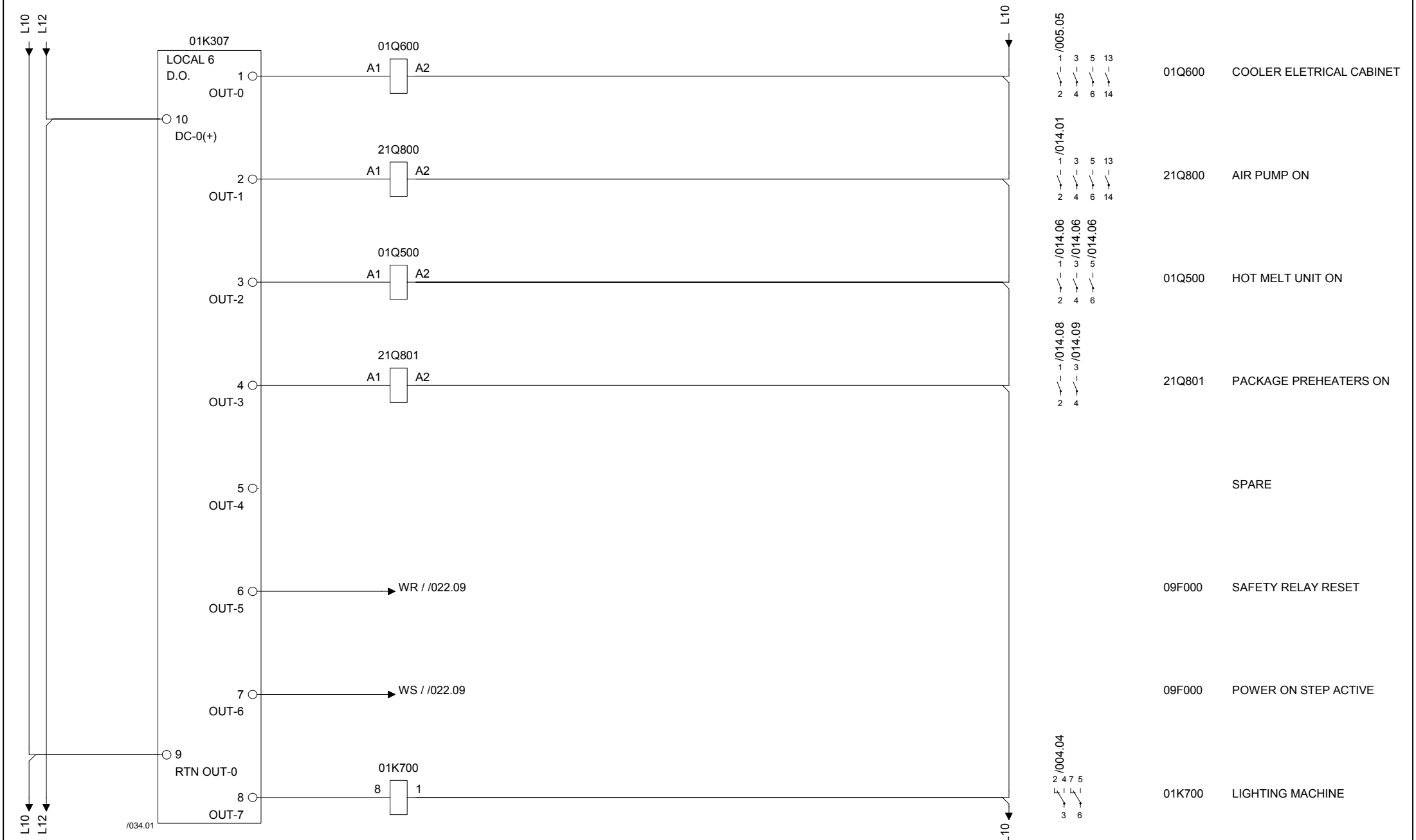
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type PLC IN (WASTE DEVICE) OPTIONAL
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD / Version AA / Page 032

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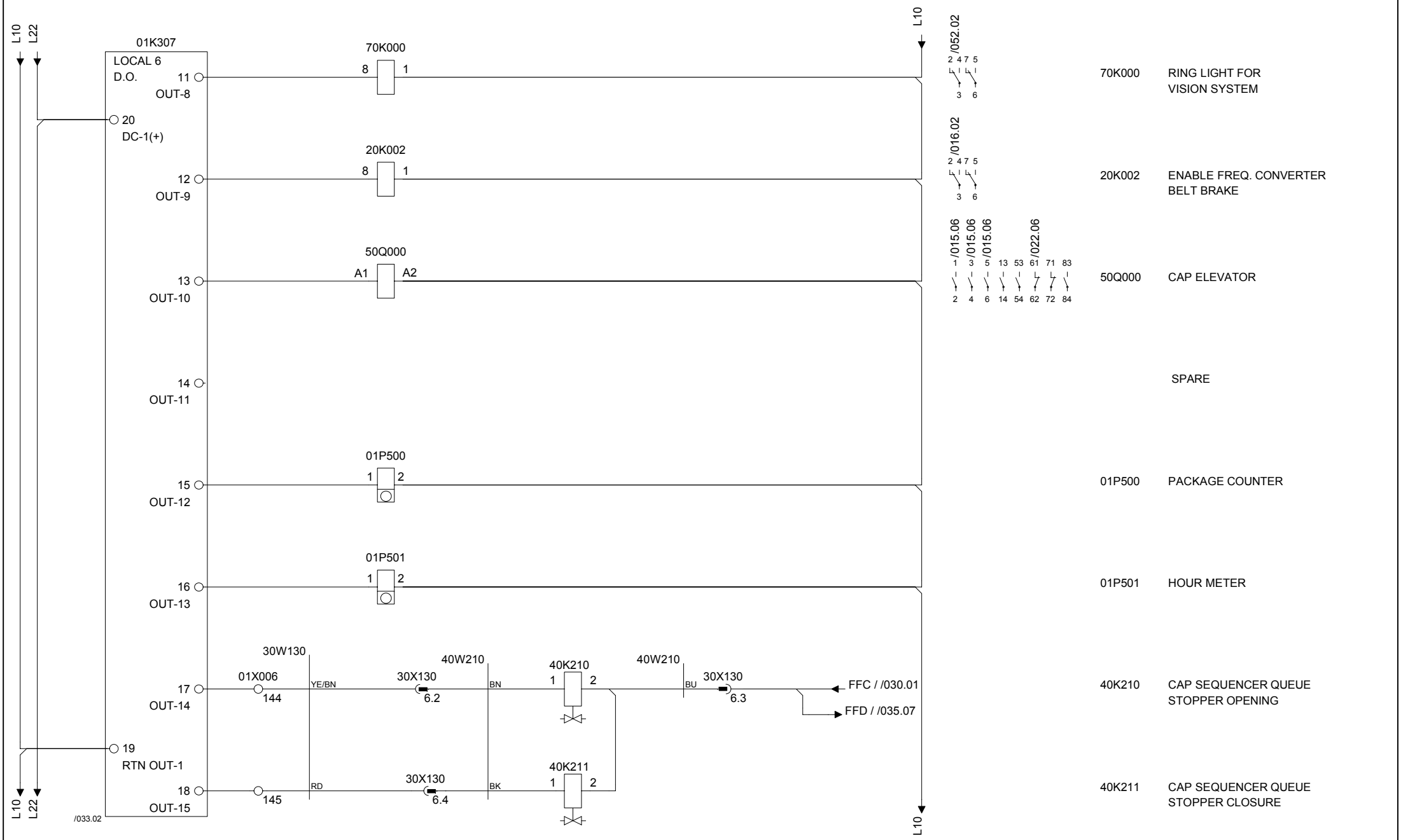
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type PLC OUT	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 033

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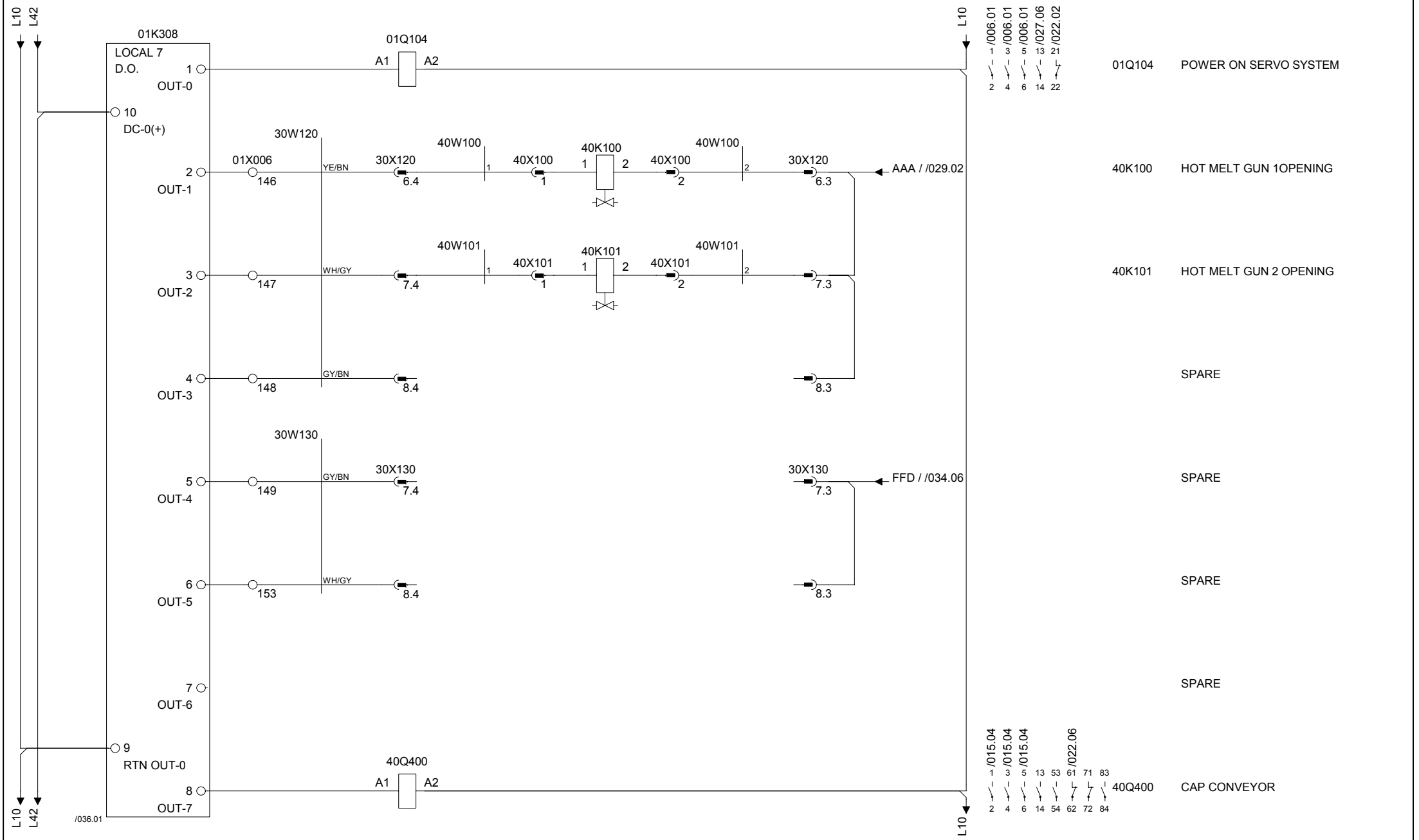
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)			
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type PLC OUT			
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 034	

RELEASED

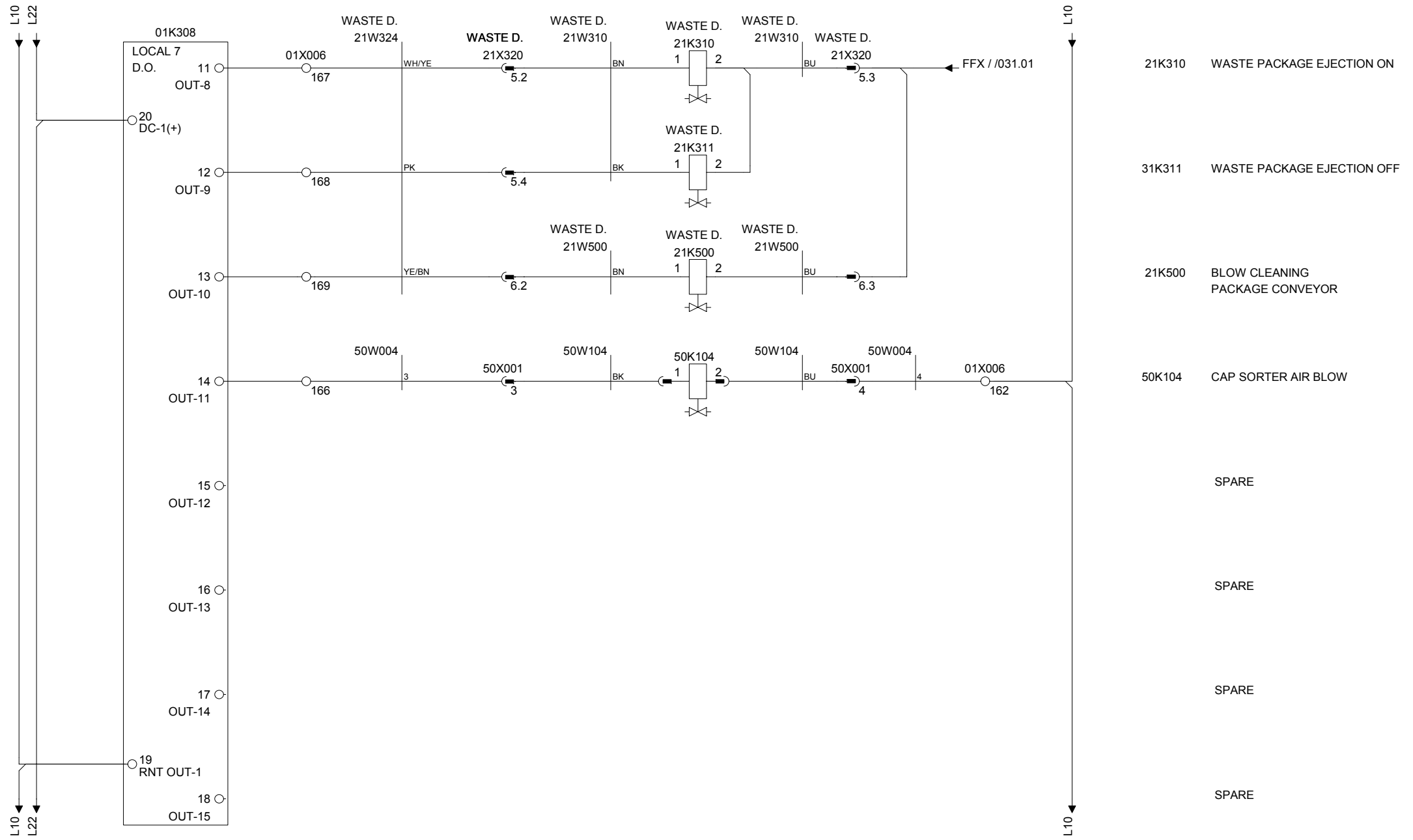
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Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)		
	ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type PLC OUT		
Drawing remarks	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 035

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21K310	WASTE PACKAGE EJECTION ON
31K311	WASTE PACKAGE EJECTION OFF
21K500	BLOW CLEANING PACKAGE CONVEYOR
50K104	CAP SORTER AIR BLOW
	SPARE
	SPARE
	SPARE
	SPARE

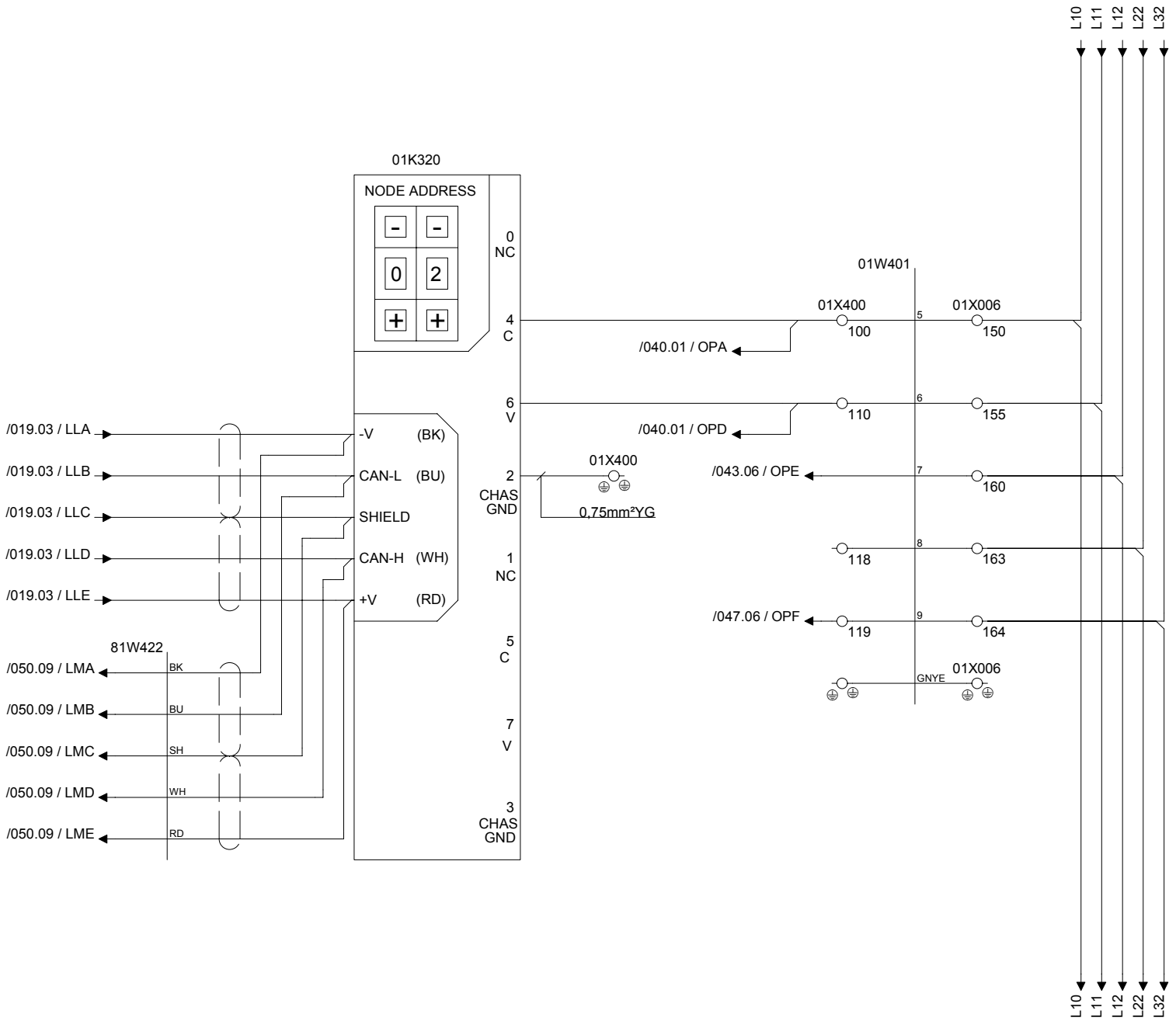
Drawing remarks

Tetra Pak

Designer: QUE	Date: 26/04/2006	Machine: SCREWCAP Platform (FLEX)	
ECM No: 276887	Denomination: CIRCUIT DIAGRAM	Page Type: PLC OUT (WASTE DEVICE) OPTIONAL	
Company: Tetra Pak Carton Ambient S.p.A	Document No.: 2858294-0003	Doc. type: ELD	Version: AA / Page: 036

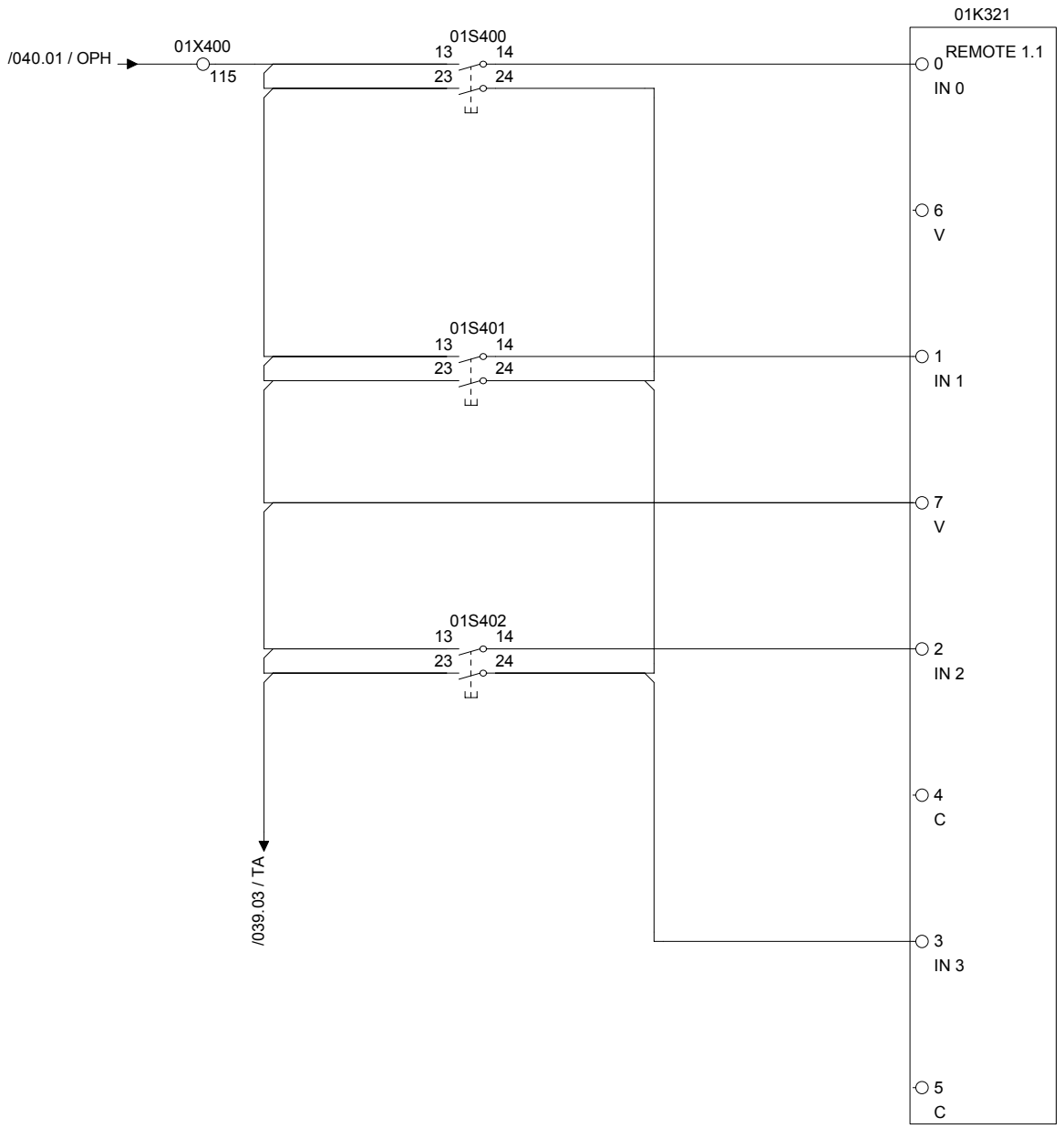
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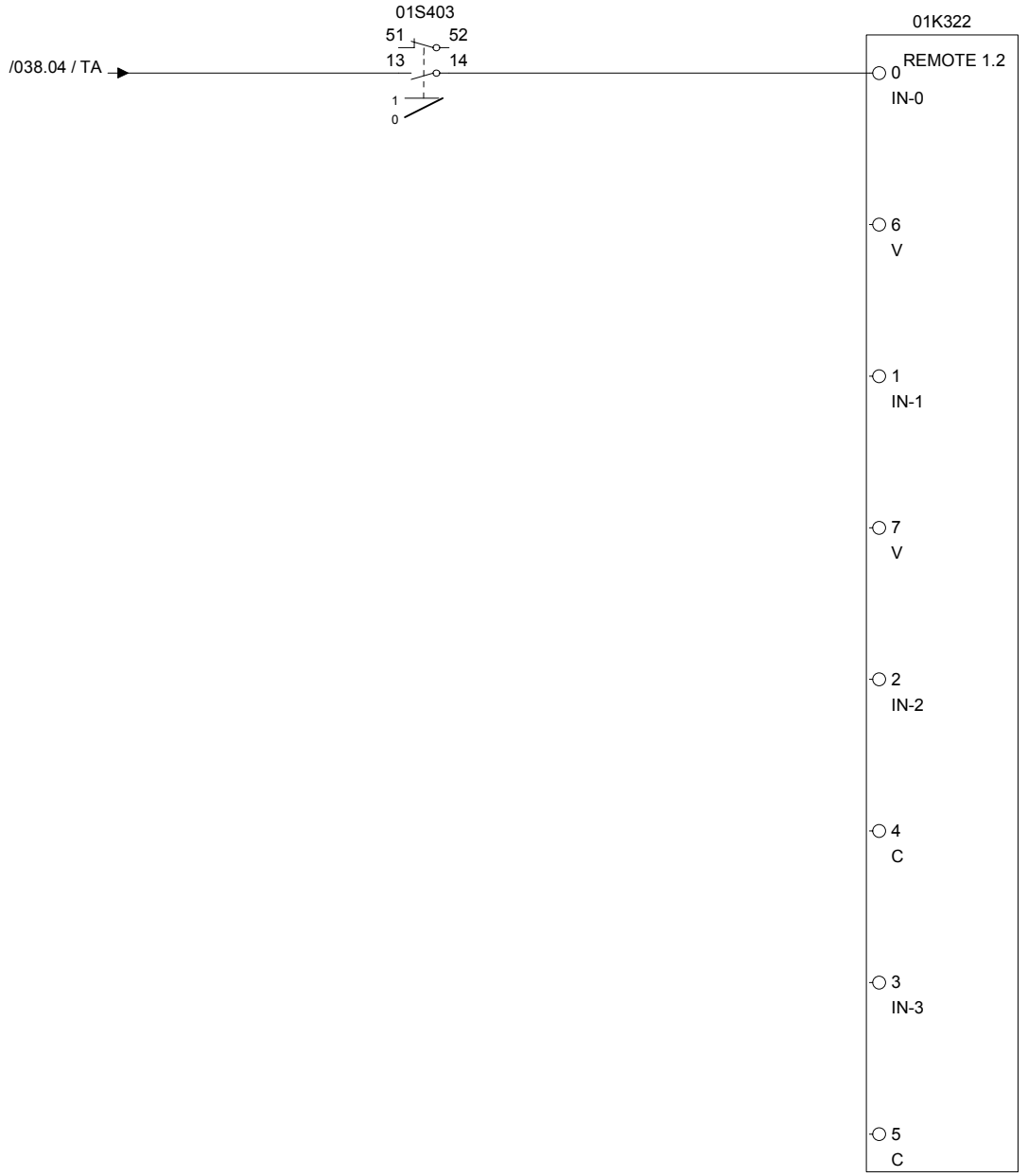
Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type REMOTE I/O ADAPTER O.P. BOX	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 037

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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type REMOTE I/O ADAPTER O.P. BOX	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 038

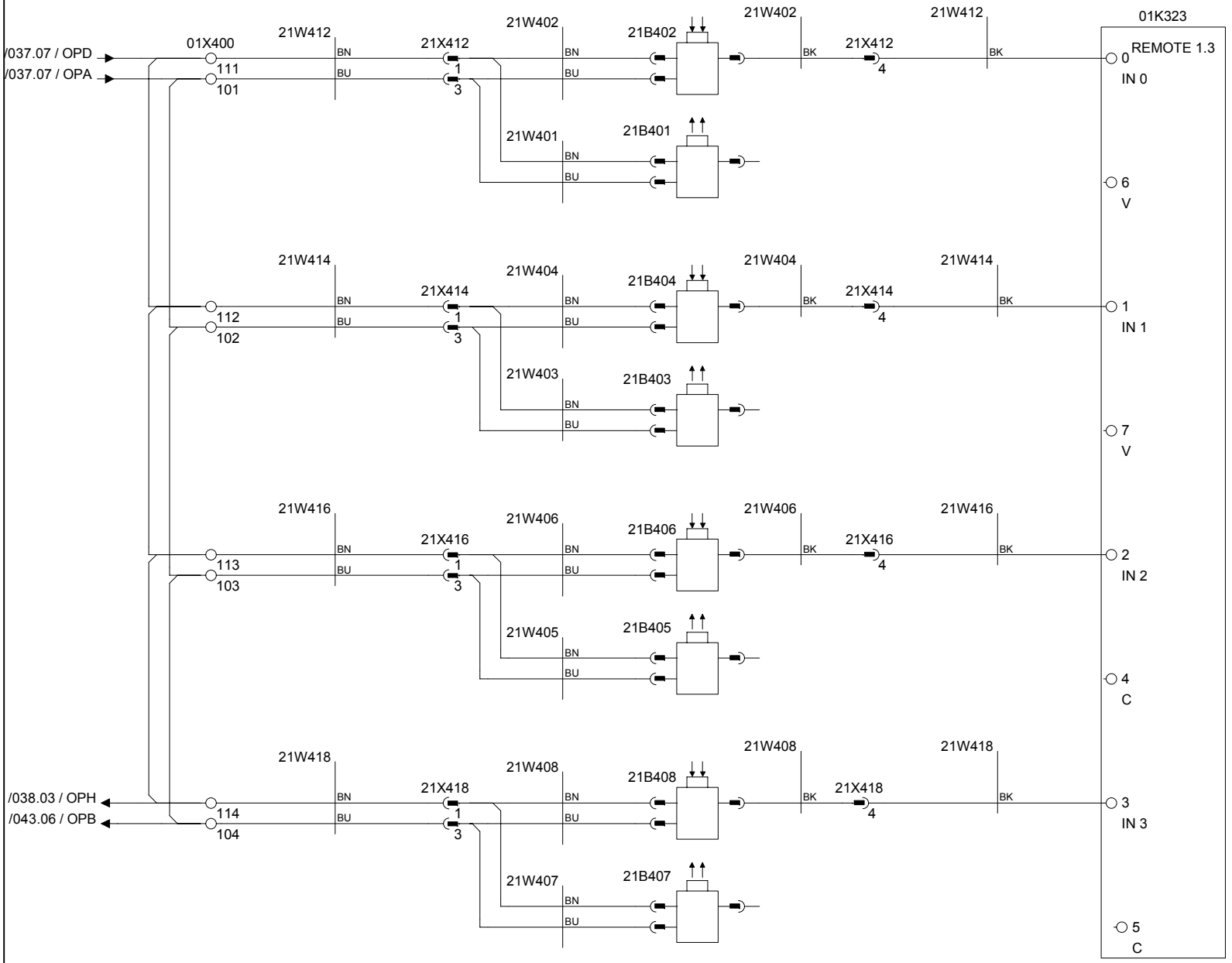
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type REMOTE I/O ADAPTER O.P. BOX	
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 039

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21B402 LONG PACKAGE QUEUE
21B401

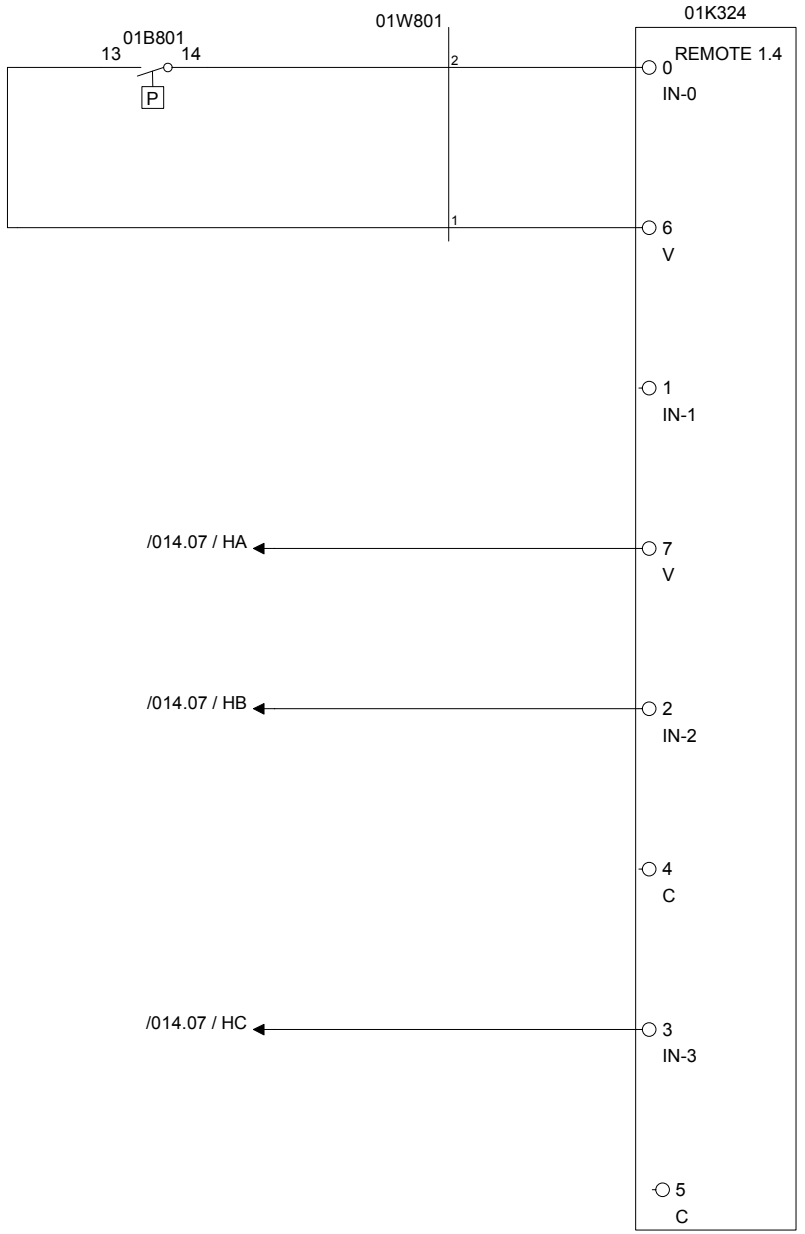
21B404 SHORT PACKAGE QUEUE
21B403

21B406 VERIFIES PACKAGE STANDING
21B405

21B408 TOO LONG PACKAGE QUEUE
21B407

Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)			
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type REMOTE I/O ADAPTER O.P. BOX			
	Company Tetra Pak Carton Ambient S.p.A		Document No. 2858294-0003	Doc. type ELD	Version AA	Page 040	

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01B801	AIR PRESSURE GUARD
	SPARE
01V500	HOT MELT UNIT
01V500	HOT MELT UNIT READY
01V500	LOW LEVEL HOT MELT TANK

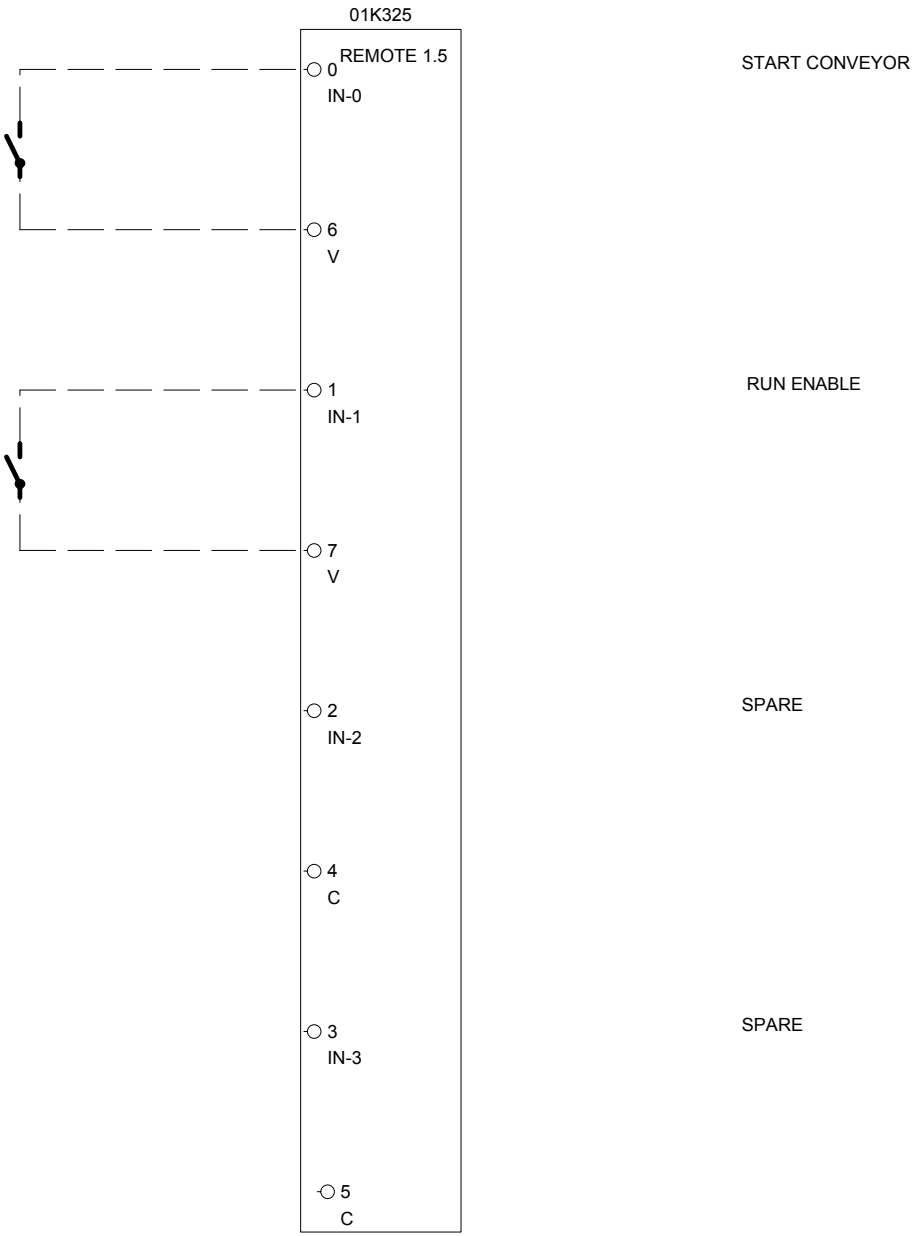
Drawing remarks

Tetra Pak

Designer: QUE	Date: 26/04/2006	Machine: SCREWCAP Platform (FLEX)	
ECM No: 276887	Denomination: CIRCUIT DIAGRAM	Page Type: REMOTE I/O ADAPTER O.P. BOX	
Company: Tetra Pak Carton Ambient S.p.A	Document No.: 2858294-0003	Doc. type: ELD	Version: AA	Page: 041

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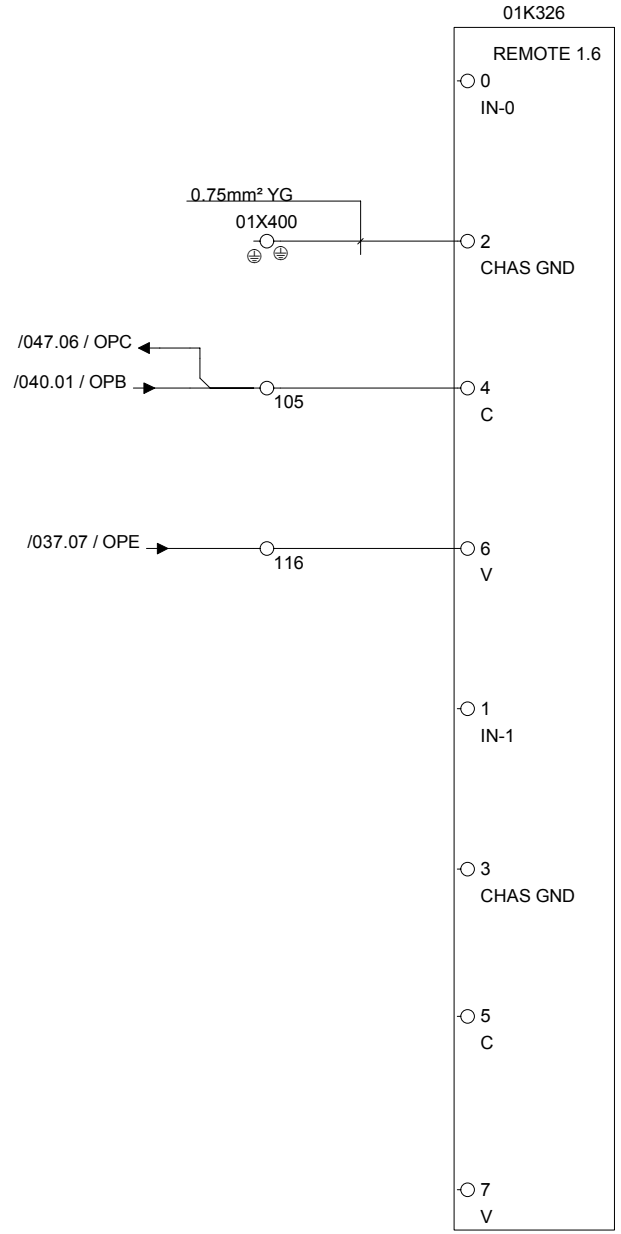


Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type REMOTE I/O ADAPTER O.P. BOX	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 042

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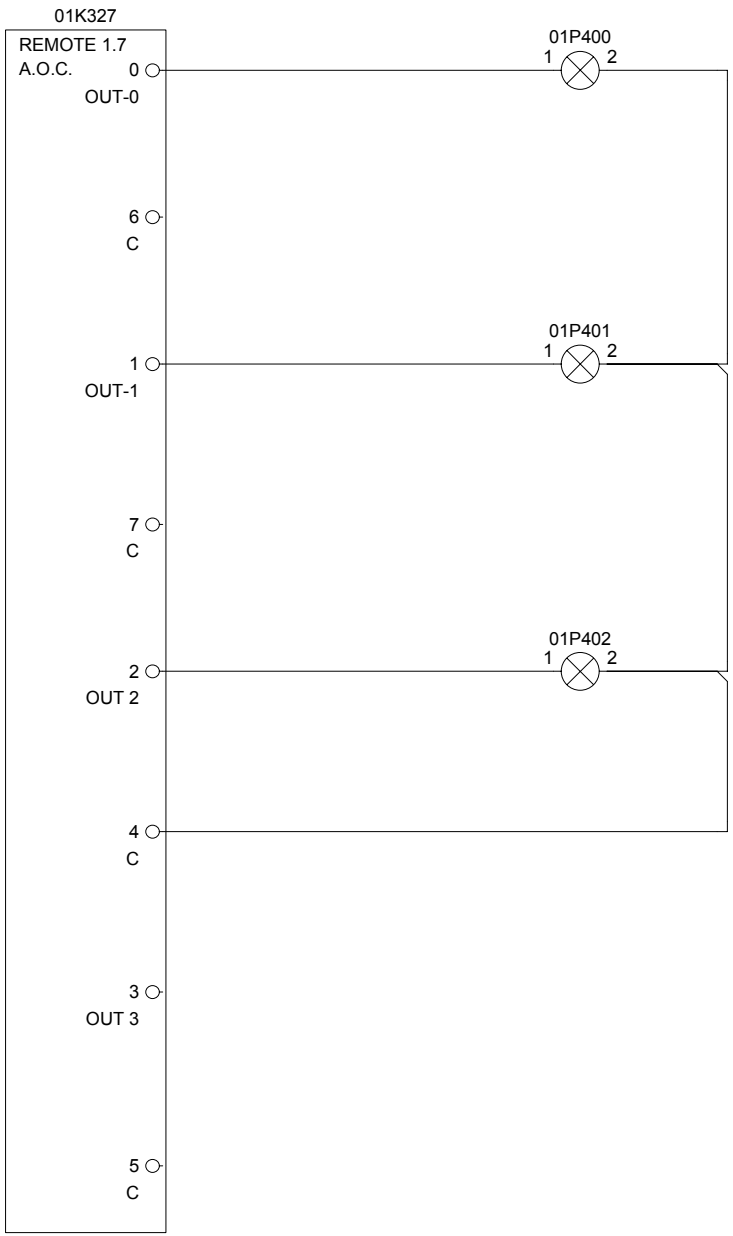


Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)		
ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type FIELD POWER DISTR. O.P. BOX		
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 043

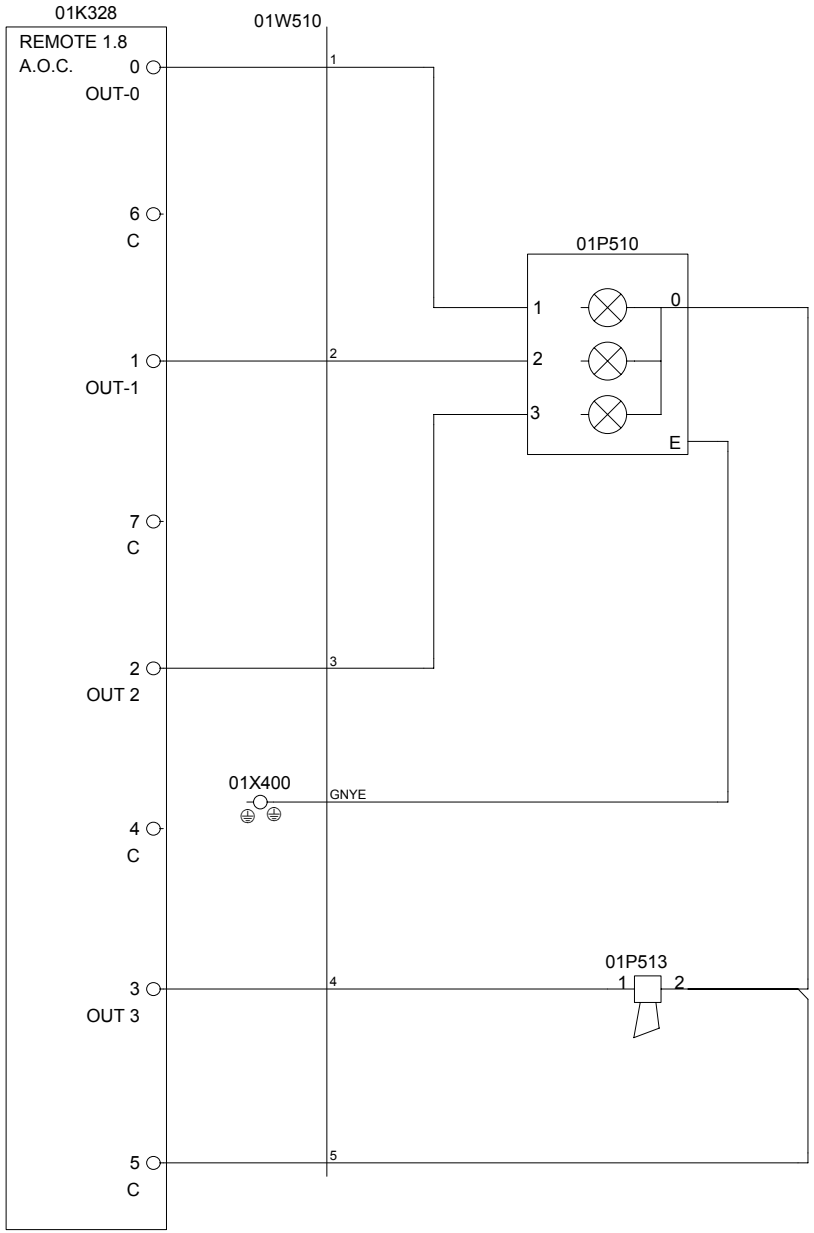
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01P400	STEP UP LAMP
01P401	STEP DOWN LAMP
01P402	INCHING LAMP
	SPARE

Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type REMOTE OUTPUT O.P. BOX
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD / Version AA / Page 044

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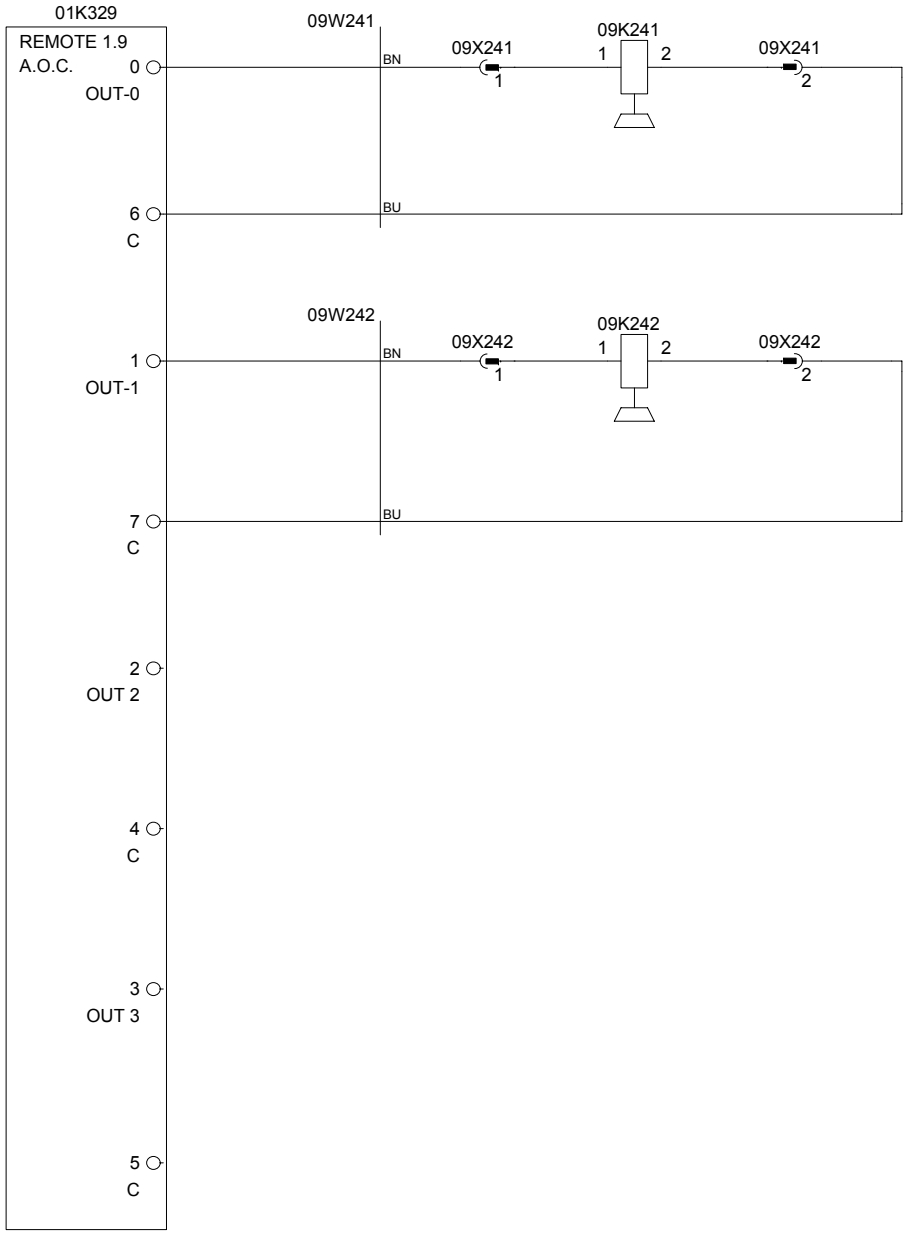
01P510	ALARM BEACON BLUE
01P510	ALARM BEACON YELLOW
01P510	ALARM BEACON RED
01P513	HOOTER

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type REMOTE OUTPUT O.P. BOX	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 045

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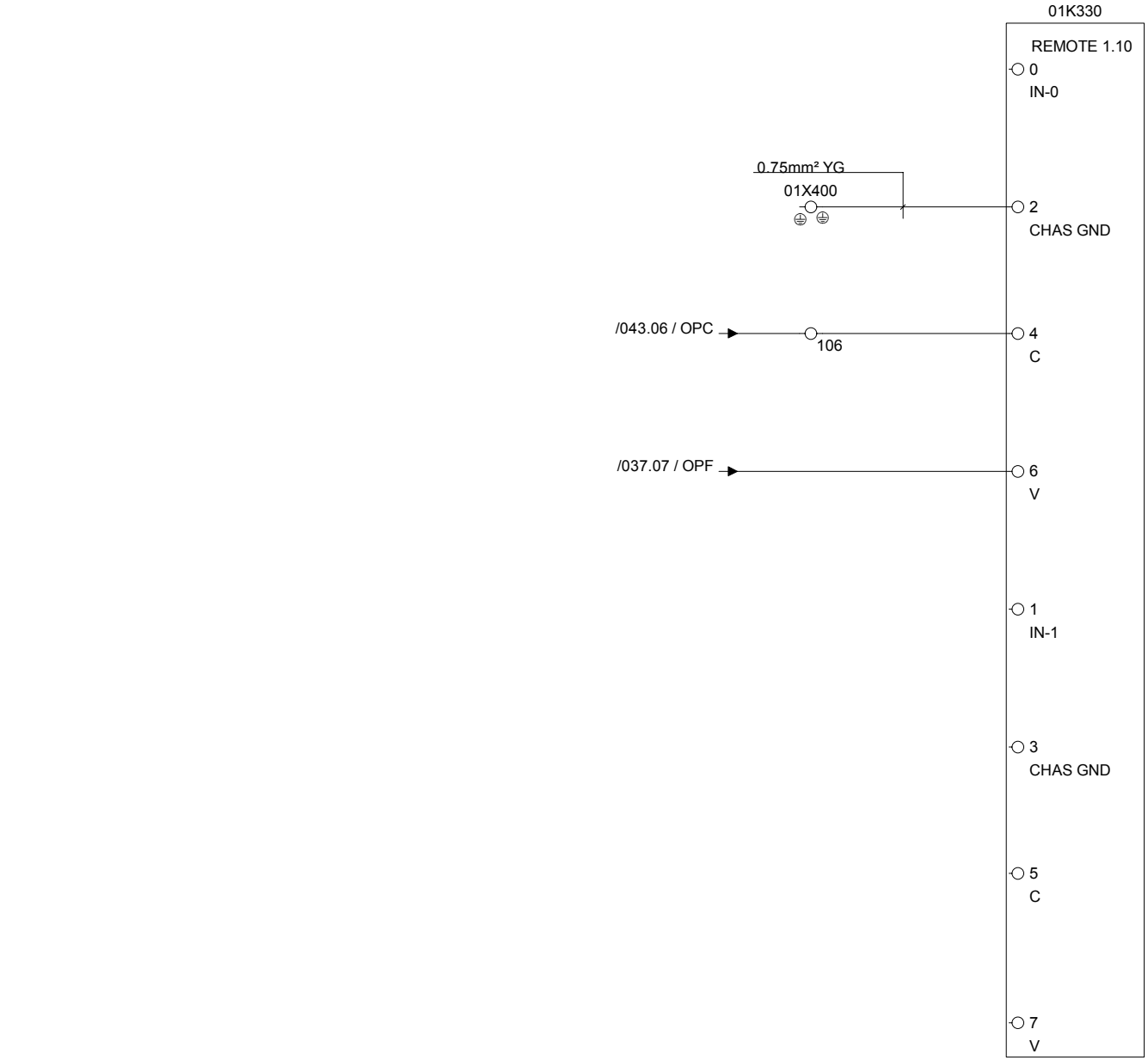


09K241	LOCKER DOOR FRONT 1
09K242	LOCKER DOOR FRONT 2
	SPARE
	SPARE

Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)			
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type REMOTE OUTPUT O.P. BOX			
		Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 046	

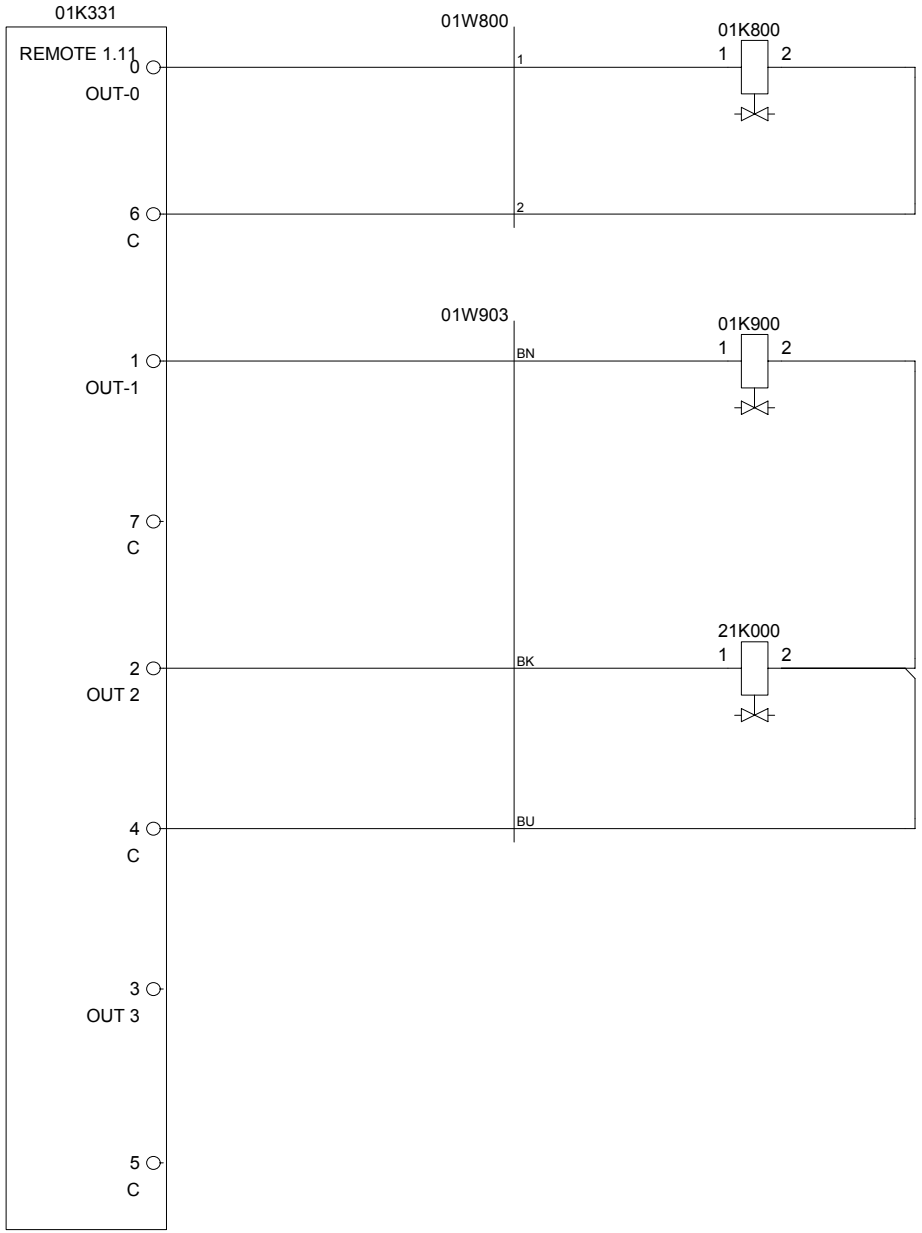
RELEASED

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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type FIELD POWER DISTR. O.P. BOX	
	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 047

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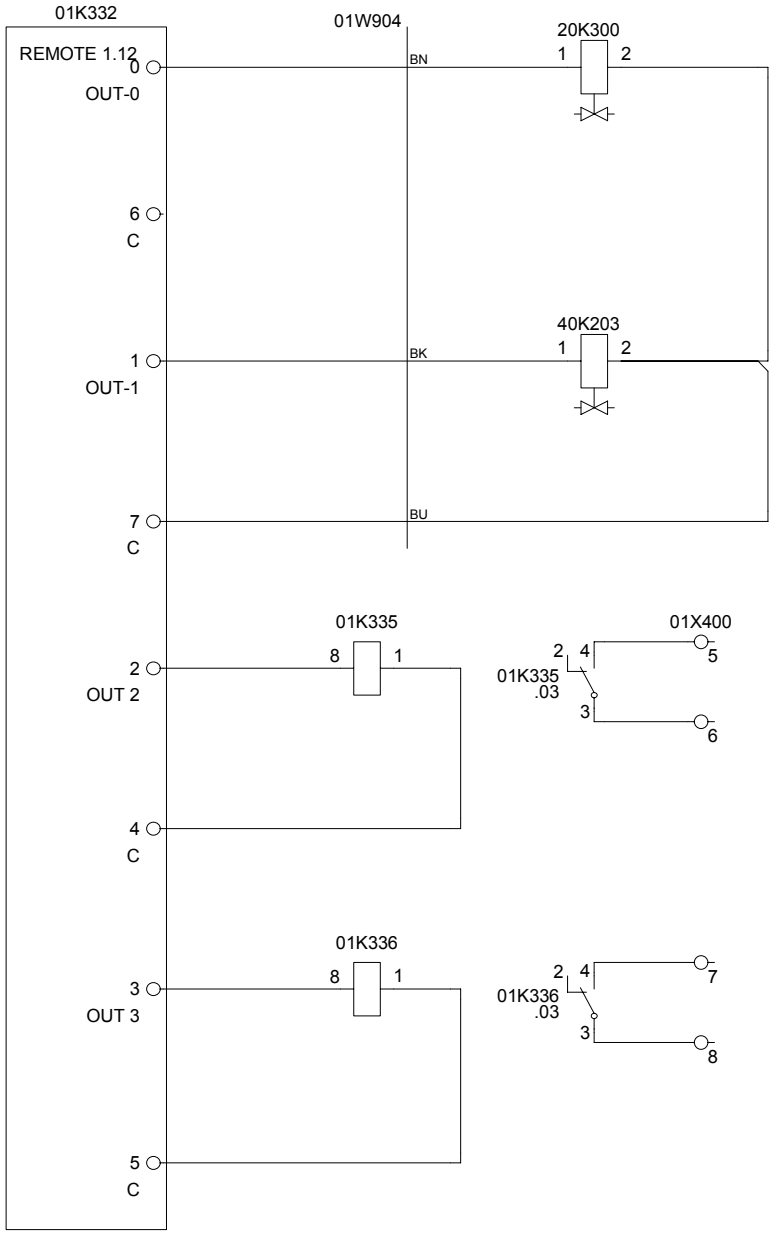
01K800	MAIN AIR VALVE
01K900	CENTRAL LUBRIFICATION
21K000	LOCK PACKAGE TRANSFER
	SPARE

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)			
ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type REMOTE OUTPUT O.P. BOX			
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 048	

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20K300	PACKAGE DRYING AIR	
40K203	CAP SEQUENCER AIR BLOW	
01K335	READY SIGNAL (RS) FOR LINE	.04 2 4 7 5 3 6
01K336	PACKAGE COMING (PC) FOR LINE	.04 2 4 7 5 3 6

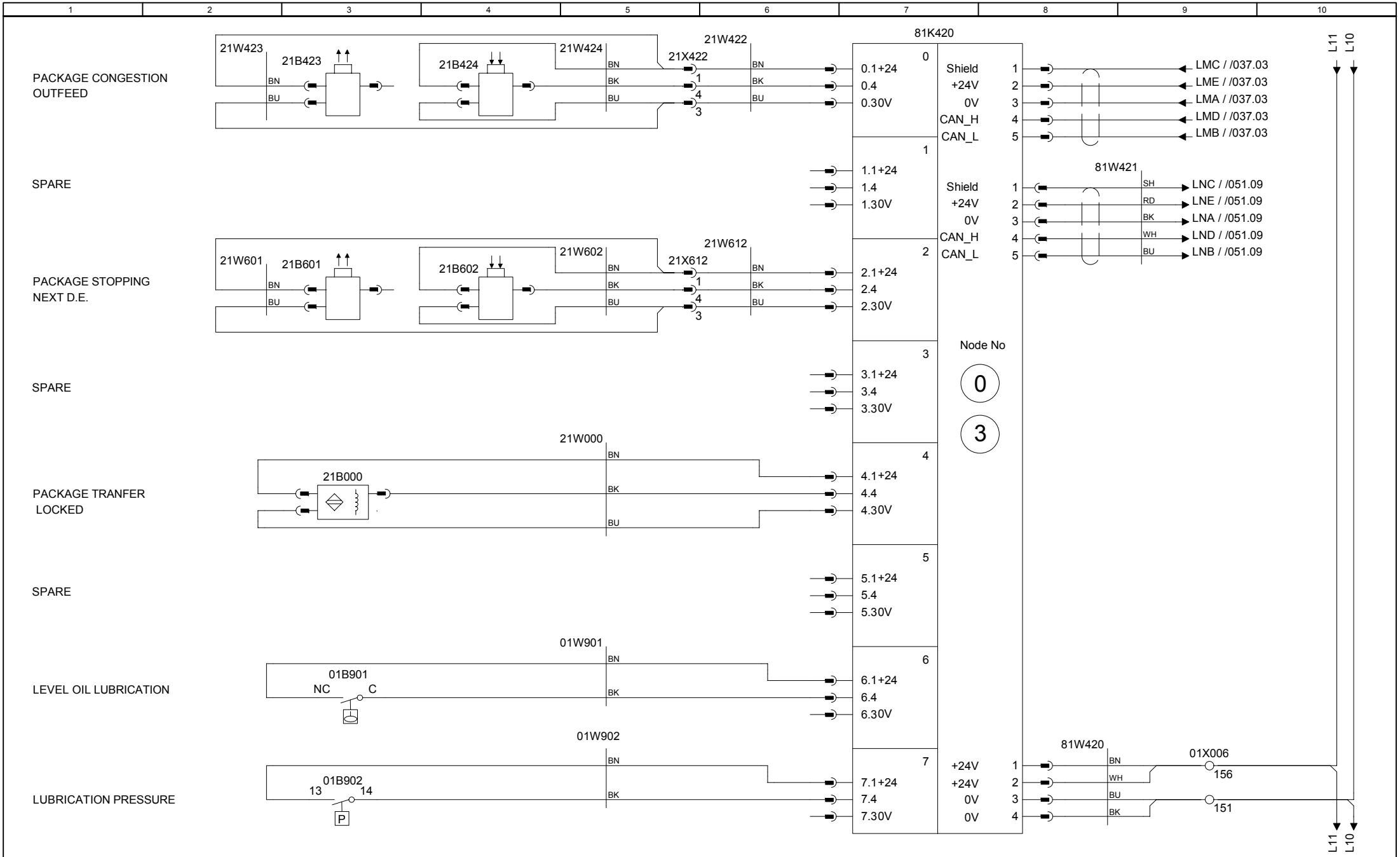
Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)					
ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type REMOTE OUTPUT O.P. BOX					
Company Tetra Pak Carton Ambient S.p.A		Document No. 2858294-0003	Doc. type ELD	Version AA	Page 049		

RELEASED

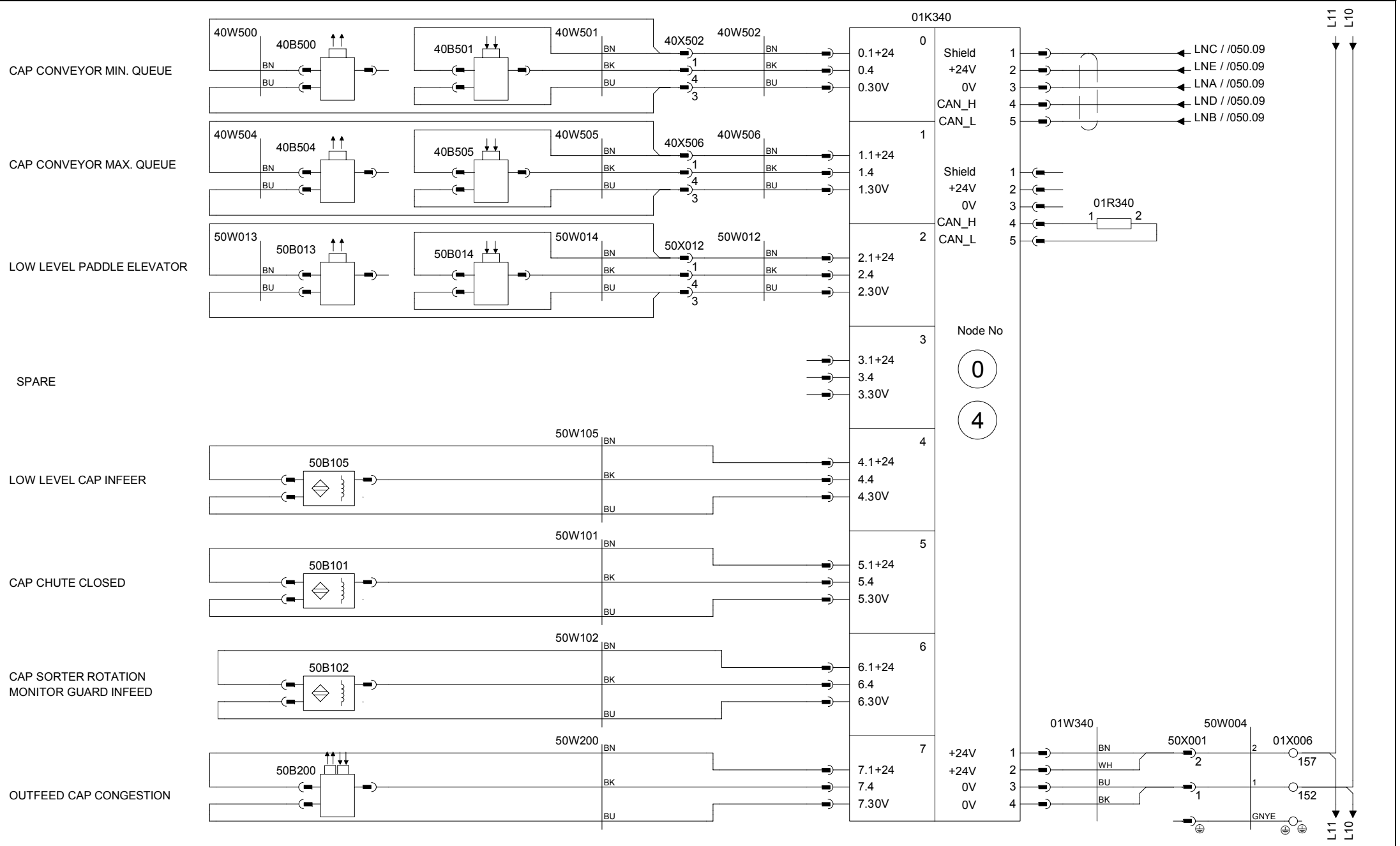
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type ARMOR BLOCK (MACHINE BODY)	
	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 050

RELEASED

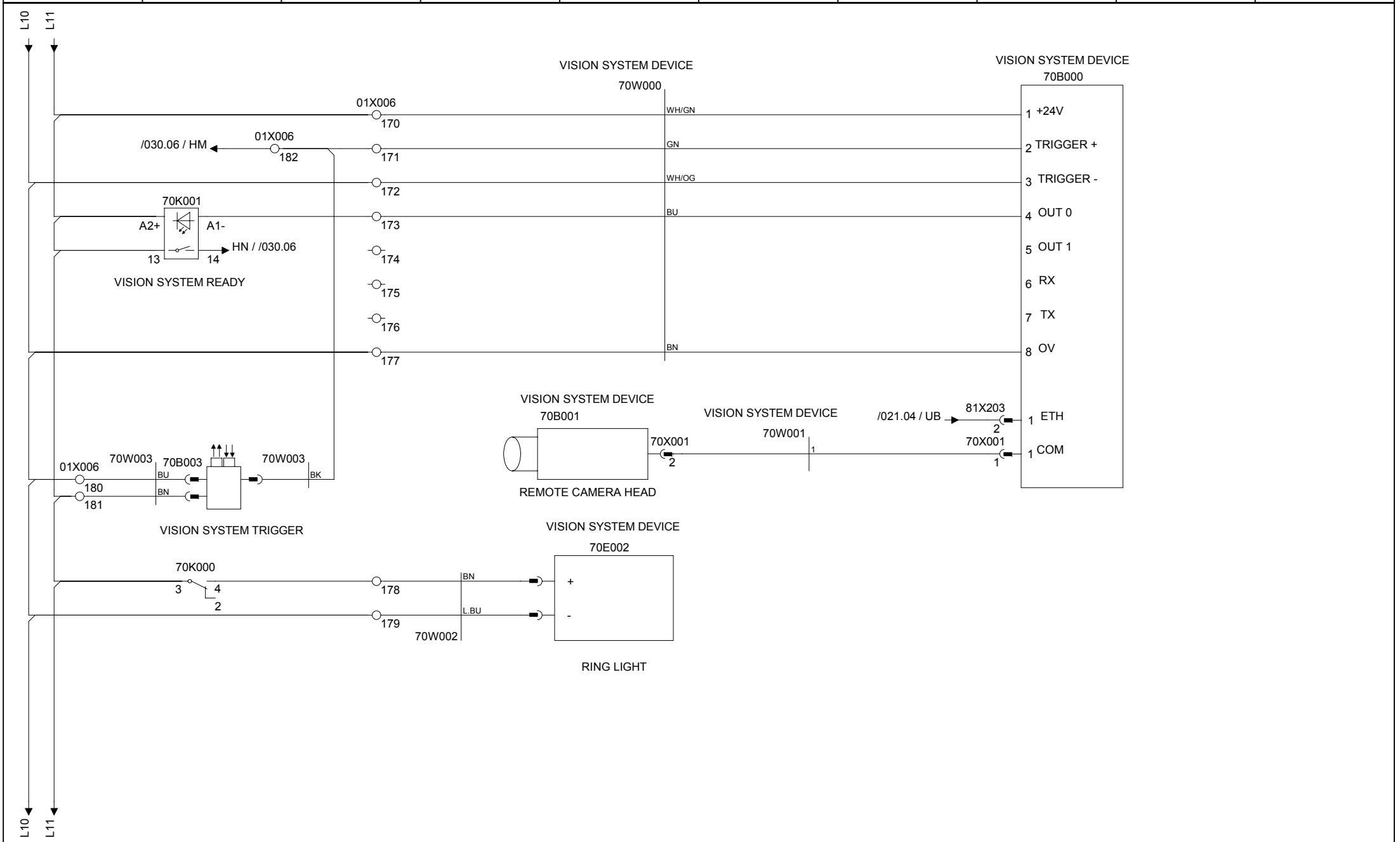
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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type ARMOR BLOCK (CAP SORTER)	
	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 051

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Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination CIRCUIT DIAGRAM	Page Type VISION SYSTEM DEVICE	
	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0003	Doc. type ELD	Version AA	Page 052

5 Line Summary

Description

All connections inside the electrical cabinet are listed in this chapter.

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Line summary of 2858294-0003

Line	From	Page.Col.	To	Page.Col.	Area/Color	Opt.
L1	01F105:1	6 .3	01F200:1	3 .3	10mm² BK	
L1	01F200:1	3 .3	01Q105:1	14 .3		
L1	01Q105:1	14 .3	01V100:L1	2 .6		
L1	01V100:L1	2 .6	01F104:1	6 .1		
L2	01F600:1	5 .5	01F200:3	3 .3	10mm² BK	
L2	01F200:3	3 .3	01Q105:3	14 .3		
L2	01Q105:3	14 .3	01V100:L2	2 .6		
L2	01V100:L2	2 .6	01F104:3	6 .1		
L3	01F300:1	18 .4	01F200:5	3 .3	10mm² BK	
L3	01F200:5	3 .3	01Q105:5	14 .3		
L3	01Q105:5	14 .3	01V100:L3	2 .6		
L3	01V100:L3	2 .6	01F104:5	6 .1		
L3	01F104:5	6 .1	01F700:1	4 .3		
L3	01F700:1	4 .3	21F800:1	14 .1		
L4	01Q105:2	14 .3	01F500:1	14 .6	10mm² BK	
L4	01F500:1	14 .6	21F801:2	14 .8		
L4	21F801:2	14 .8	40F400:1	15 .4		
L4	40F400:1	15 .4	50F000:1	15 .6		
L4	50F000:1	15 .6	21F400:1	16 .7		
L5	01Q105:4	14 .3	01F500:3	14 .6	10mm² BK	
L5	01F500:3	14 .6	21F801:4	14 .8		
L5	21F801:4	14 .8	40F400:3	15 .4		
L5	40F400:3	15 .4	50F000:3	15 .6		
L5	50F000:3	15 .6	50F100:1	17 .2		
L6	01Q105:6	14 .3	01F500:5	14 .6	10mm² BK	
L6	01F500:5	14 .6	40F400:5	15 .4		
L6	40F400:5	15 .4	50F000:5	15 .6		
L6	50F000:5	15 .6	20F000:1	16 .2		

Line	From	Page.Col.	To	Page.Col.	Area/Color	Opt.
L6	20F000:1	16 .2	21F600:1	17 .7		
L10	01XL010:1	1 .1	01T200:-	3 .3	4 mm² BU	
L10	01XL010:2	1 .1	01XL010:16	1 .3	2.5 mm² BU	
L10	01XL010:3	1 .1	01K305:18	28 .8	0.75 mm² BU	
L10	01XL010:4	1 .1	01K305:036	30 .8	0.75 mm² BU	
L10	01XL010:5	1 .2	01K306:09	31 .8	0.75 mm² BU	
L10	01K306:09	31 .8	01K306:19	32 .8		
L10	01XL010:6	1 .2	01K307:RTN OUT-0	33 .2	0.75 mm² BU	
L10	01XL010:7	1 .2	01K307:RTN OUT-1	34 .1	0.75 mm² BU	
L10	01XL010:8	1 .2	01K308:RNT OUT-1	36 .1	0.75 mm² BU	
L10	01XL010:9	1 .2	01K308:RTN OUT-0	35 .1	0.75 mm² BU	
L10	01XL010:10	1 .2	20Q000:A2	26 .5	0.75 mm² BU	
L10	20Q000:A2	26 .5	21Q400:A2	26 .5		
L10	21Q400:A2	26 .5	21Q600:A2	26 .5		
L10	21Q600:A2	26 .5	50Q100:A2	22 .5		
L10	50Q100:A2	22 .5	01Q105:A2	26 .5		
L10	01XL010:11	1 .2	01Q500:A2	33 .3	0.75 mm² BU	
L10	01Q500:A2	33 .3	21Q801:A2	33 .3		
L10	21Q801:A2	33 .3	40Q400:A2	35 .3		
L10	40Q400:A2	35 .3	50Q000:A2	34 .3		
L10	50Q000:A2	34 .3	21Q800:A2	33 .3		
L10	21Q800:A2	33 .3	01Q600:A2	33 .3		
L10	01XL010:12	1 .2	01K105:8	22 .8	0.75 mm² BU	
L10	01K105:8	22 .8	01Q104:A2	35 .3		
L10	01XL010:13	1 .3	09F001:S24	22 .2	0.75 mm² BU	
L10	09F001:S24	22 .2	09F001:A2	22 .2		
L10	09F001:A2	22 .2	09F000:0V	22 .7		
L10	09F000:0V	22 .7	09F002:BU	22 .8		

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination LINE SUMMARY	Page Type LINE SUMMARY	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0004	Doc. type ELD	Version AA	Page 001

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be copied, transmitted or disclosed to any third party.

Line summary of 2858294-0003

Line	From	Page.Col.	To	Page.Col.	Area/Color	Opt.
L10	01XL010:14	1 .3	01XL010:60	1 .8	2.5 mm² BU	
L10	01XL010:15	1 .3	81T200:GND	21 .2	0.75 mm² BU	
L10	81T200:GND	21 .2	81T200:GND	21 .2		
L10	01XL010:23	1 .4	01X006:112-	31 .1	0.75 mm² BU	
L10	01X006:112-	31 .1	01X006:115-	29 .2		
L10	01X006:115-	29 .2	01X006:116-	29 .2		
L10	01X006:116-	29 .2	01X006:122-	29 .1		
L10	01XL010:24	1 .4	01X006:128	24 .4	0.75 mm² BU	
L10	01XL010:25	1 .4	01X006:134	25 .1	0.75 mm² BU	
L10	01XL010:26	1 .4	01X006:140	25 .6	0.75 mm² BU	
L10	01XL010:27	1 .4	01X006:150	37 .8	0.75 mm² BU	
L10	01X006:150	37 .8	01X006:151	50 .9		
L10	01X006:151	50 .9	01X006:152	51 .10		
L10	01XL010:28	1 .4	01X006:162	36 .7	0.75 mm² BU	
L10	01XL010:29	1 .4	01X006:180	52 .1	0.75 mm² BU	
L10	01XL010:30	1 .5	01X006:172	52 .3	0.75 mm² BU	
L10	01X006:172	52 .3	01X006:177	52 .3		
L10	01X006:177	52 .3	01X006:179	52 .3		
L10	01XL010:32	1 .5	01K700:1	33 .3	0.75 mm² BU	
L10	01K700:1	33 .3	70K000:1	34 .3		
L10	01XL010:33	1 .5	01P500:2	34 .3	0.75 mm² BU	
L10	01P500:2	34 .3	01P501:2	34 .3		
L10	01XL010:34	1 .5	21T100:6	9 .7	0.75 mm² BU	
L10	01XL010:35	1 .5	21T200:6	10 .8	0.75 mm² BU	
L10	01XL010:36	1 .5	30T000:6	6 .8	0.75 mm² BU	
L10	01XL010:37	1 .5	30T400:6	12 .7	0.75 mm² BU	
L10	01XL010:38	1 .6	40T000:6	7 .7	0.75 mm² BU	
L10	01XL010:39	1 .6	40T002:6	8 .7	0.75 mm² BU	

Line	From	Page.Col.	To	Page.Col.	Area/Color	Opt.
L10	01XL010:40	1 .6	40T300:6	11 .7	0.75 mm² BU	
L10	01XL010:41	1 .6	70T100:6	13 .7	0.75 mm² BU	
L10	01XL010:42	1 .6	20K002:1	34 .3	0.75 mm² BU	
L10	01XL010:43	1 .6	09F003:A1	22 .4	0.75 mm² BU	
L10	09F003:A1	22 .4	09F003:S14	22 .4		
L10	01XL010:44	1 .6	81K500:2	18 .8	0.75 mm² BU	
L11	01XL011:1	1 .1	01F201:2	3 .3	2.5 mm² BU	
L11	01XL011:2	1 .1	01E600:4	5 .5	0.75 mm² BU	
L11	01XL011:3	1 .1	21K800:11	20 .4	0.75 mm² BU	
L11	01XL011:4	1 .1	01B600:13	27 .5	0.75 mm² BU	
L11	01XL011:5	1 .2	20Q000:13	27 .4	0.75 mm² BU	
L11	20Q000:13	27 .4	50Q100:13	28 .6		
L11	01XL011:6	1 .2	01F500:13	28 .6	0.75 mm² BU	
L11	01F500:13	28 .6	21F800:13	28 .6		
L11	21F800:13	28 .6	21F801:13	28 .6		
L11	21F801:13	28 .6	40F400:13	28 .6		
L11	40F400:13	28 .6	50F000:13	28 .6		
L11	50F000:13	28 .6	01F104:13	28 .6		
L11	01F104:13	28 .6	01Q104:13	27 .6		
L11	01XL011:7	1 .2	70K001:A2+	52 .2	0.75 mm² BU	
L11	70K001:A2+	52 .2	70K001:13	52 .2		
L11	70K001:13	52 .2	70K000:3	52 .2		
L11	01XL011:8	1 .2	01X006:155	37 .8	0.75 mm² BU	
L11	01X006:155	37 .8	01X006:156	50 .9		
L11	01X006:156	50 .9	01X006:157	51 .10		
L11	01XL011:9	1 .2	01X006:170	52 .3	0.75 mm² BU	
L11	01XL011:10	1 .2	01X006:181	52 .1	0.75 mm² BU	
L11	01XL011:12	1 .2	01K100:4	2 .6	0.75 mm² BU	

Drawing remarks

Tetra Pak

Designer: QUE | Date: 26/04/2006 | Machine: SCREWCAP Platform (FLEX)

ECM No: 276887 | Denomination: LINE SUMMARY | Page Type: LINE SUMMARY

Company: Tetra Pak Carton Ambient S.p.A | Document No.: 2858294-0004 | Doc. type: ELD | Version: AA | Page: 002

This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.

Line summary of 2858294-0003

Line	From	Page.Col.	To	Page.Col.	Area/Color	Opt.
L11	01XL011:13	1 .3	01X006:112+	31 .1	0.75 mm² BU	
L11	01X006:112+	31 .1	01X006:115+	29 .2		
L11	01X006:115+	29 .2	01X006:116+	29 .2		
L11	01X006:116+	29 .2	01X006:122+	29 .1		
L11	01XL011:21	1 .3	01XL011:28	1 .4	2.5 mm² BU	
L12	01XL012:1	1 .6	01F202:2	3 .4	2.5 mm² BU	
L12	01XL012:2	1 .6	81T200:US1	21 .2	0.75 mm² BU	
L12	81T200:US1	21 .2	81T200:US2	21 .2		
L12	81T200:US2	21 .2	09F000:24V	22 .7		
L12	01XL012:3	1 .6	09F000:Q0	22 .7	0.75 mm² BU	
L12	09F000:Q0	22 .7	09F000:Q1	22 .7		
L12	01XL012:4	1 .6	09F001:13	22 .2	0.75 mm² BU	
L12	09F001:13	22 .2	09F001:23	22 .2		
L12	09F001:23	22 .2	09F001:33	22 .2		
L12	01XL012:5	1 .6	09F003:13	22 .4	0.75 mm² BU	
L12	09F003:13	22 .4	09F003:23	22 .4		
L12	01XL012:6	1 .7	01X006:5	23 .2	0.75 mm² BU	
L12	01XL012:7	1 .7	01X006:126	24 .3	0.75 mm² BU	
L12	01XL012:8	1 .7	01X006:132	25 .1	0.75 mm² BU	
L12	01XL012:9	1 .7	01X006:138	25 .6	0.75 mm² BU	
L12	01XL012:10	1 .7	01X006:160	37 .8	0.75 mm² BU	
L12	01XL012:11	1 .7	01K105:4	26 .3	0.75 mm² BU	
L12	01XL012:12	1 .7	01K307:DC-0(+)	33 .2	0.75 mm² BU	
L12	01XL012:15	1 .8	01XL012:20	1 .8	2.5 mm² BU	
L12	01XL012:16	1 .8	81K500:1	18 .7	0.75 mm² BU	
L22	01XL022:1	1 .1	09F000:Q1	22 .7	0.75 mm² BU	
L22	01XL022:2	1 .1	01K307:DC-1(+)	34 .1	0.75 mm² BU	
L22	01XL022:3	1 .1	01K308:DC-1(+)	36 .1	0.75 mm² BU	

Line	From	Page.Col.	To	Page.Col.	Area/Color	Opt.
L22	01XL022:4	1 .1	01X006:163	37 .8	0.75 mm² BU	
L22	01XL022:5	1 .2	21Q400:A1	26 .5	0.75 mm² BU	
L22	21Q400:A1	26 .5	21Q600:A1	26 .5		
L22	01XL022:9	1 .2	01XL022:12	1 .2	2.5 mm² BU	
L32	01XL032:1	1 .5	09F000:Q0	22 .7	0.75 mm² BU	
L32	01XL032:2	1 .5	09F001:S14	22 .2	0.75 mm² BU	
L32	09F001:S14	22 .2	09F001:A1	22 .2		
L32	01XL032:3	1 .5	01X006:164	37 .8	0.75 mm² BU	
L32	01XL032:4	1 .5	01K305:IN-16	29 .7	0.75 mm² BU	
L32	01XL032:9	1 .6	01XL032:12	1 .6	2.5 mm² BU	
L42	01XL042:1	1 .8	01K308:DC-0(+)	35 .1	0.75 mm² BU	
L42	01XL042:2	1 .8	09F001:14	22 .2	0.75 mm² BU	
L42	01XL042:3	1 .8	20Q000:A1	26 .5	0.75 mm² BU	
L42	01XL042:9	1 .9	01XL042:12	1 .10	2.5 mm² BU	
L43	01XL043:1	1 .1	09F001:24	22 .2	0.75 mm² BU	
L43	01XL043:2	1 .1	21T100:7	9 .8	0.75 mm² BU	
L43	01XL043:3	1 .1	21T200:7	10 .8	0.75 mm² BU	
L43	01XL043:4	1 .1	30T000:7	6 .8	0.75 mm² BU	
L43	01XL043:5	1 .2	30T400:7	12 .8	0.75 mm² BU	
L43	01XL043:6	1 .2	40T000:7	7 .8	0.75 mm² BU	
L43	01XL043:7	1 .2	40T002:7	8 .8	0.75 mm² BU	
L43	01XL043:8	1 .2	40T300:7	11 .8	0.75 mm² BU	
L43	01XL043:9	1 .2	70T100:7	13 .8	0.75 mm² BU	
L43	01XL043:12	1 .2	01XL043:16	1 .3	2.5 mm² BU	
L44	01XL044:1	1 .5	09F001:34	22 .2	0.75 mm² BU	
L44	01XL044:2	1 .5	21T100:5	9 .7	0.75 mm² BU	
L44	01XL044:3	1 .5	21T200:5	10 .7	0.75 mm² BU	
L44	01XL044:4	1 .5	30T000:5	6 .7	0.75 mm² BU	

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination LINE SUMMARY	Page Type LINE SUMMARY	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0004	Doc. type ELD	Version AA	Page 003

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Line summary of 2858294-0003

Line	From	Page.Col.	To	Page.Col.	Area/Color	Opt.
L44	01XL044:5	1 .5	30T400:5	12 .7	0.75 mm² BU	
L44	01XL044:6	1 .5	40T000:5	7 .7	0.75 mm² BU	
L44	01XL044:7	1 .5	40T002:5	8 .7	0.75 mm² BU	
L44	01XL044:8	1 .6	40T300:5	11 .7	0.75 mm² BU	
L44	01XL044:9	1 .6	70T100:5	13 .7	0.75 mm² BU	
L44	01XL044:12	1 .6	01XL044:16	1 .6	2.5 mm² BU	
L51	01F300:2	18 .4	01T300:L1	18 .4	2.5 mm² BK	
L51	01T300:L1	18 .4	81T400:L	19 .9		
L51	81T400:L	19 .9	01T400:L	21 .7		
L51	01T400:L	21 .7	21K800:A1	20 .4		
L51	21K800:A1	20 .4	21K801:A1	20 .6		
L72	01XL072:1	1 .8	09F003:24	22 .4	0.75 mm² BU	
L72	01XL072:6	1 .9	01XL072:8	1 .9	2.5 mm² BU	

Line	From	Page.Col.	To	Page.Col.	Area/Color	Opt.

Drawing remarks

Tetra Pak

Designer QUE | Date 26/04/2006 | Machine SCREWCAP Platform (FLEX)

ECM No 276887 | Denomination LINE SUMMARY | Page Type LINE SUMMARY

Company Tetra Pak Carton Ambient S.p.A | Document No. 2858294-0004 | Doc. type ELD | Version AA | Page 004

6 Cabinet Terminal Summary

Description

All terminals inside the electrical cabinet are listed in this chapter. The field *Opt.* specifies if the terminal is reserved for an option.

This drawing must not without the consent of Tetra Pak
be copied, transmitted or disclosed to any third party.

Cabinet terminal summary of 2858294-0003

Terminal	Page .Col.	Opt.
01X002:1	2 .9	
01X002:2	6 .2	
01X002:3		
01X002:4	14 .6	
01X002:5	14 .10	
01X002:6	5 .5	
01X002:7	14 .2	
01X002:8		
01X002:9		
01X002:10	16 .4	
01X002:11	16 .8	
01X002:12	17 .8	
01X002:13	15 .4	
01X002:14	15 .6	
01X002:15	18 .4	
01X002:16	17 .3	
01X002:17	19 .10	
01X002:18	6 .3	
01X002:19	21 .1	
01X002:20	19 .9	
01X002:20	21 .8	
01X002:21	18 .8	COM.UNIT
01X002:22		
01X002:23		
01X002:26	3 .3	
01X002:27	3 .4	
01X002:28	21 .8	
01X002:28		

Terminal	Page .Col.	Opt.
01X002:29	17 .1	
01X002:30	17 .6	
01X002:31		
01X002:32	4 .3	
01X002:33	4 .9	
01X002:34	16 .1	
01X002:35	4 .5	
01X002:36		
01X002:37	24 .4	
01X002:38	25 .2	
01X002:39	25 .7	
01X002:40	16 .6	
01X003:1	2 .9	
01X003:2	4 .4	
01X003:3	5 .5	
01X003:4	6 .3	
01X003:5	14 .6	
01X003:6	14 .9	
01X003:7	16 .3	
01X003:8	16 .7	
01X003:9	17 .7	
01X003:10	17 .2	
01X003:11	21 .8	
01X003:12		
01X003:13	14 .1	
01X003:14		
01X003:15		
01X003:16	20 .3	

Terminal	Page .Col.	Opt.
01X003:17		
01X003:18	18 .3	
01X003:19		
01X003:20		
01X003:21	19 .9	
01X004:1	4 .5	
01X004:2	4 .6	
01X004:3	4 .6	
01X004:4	4 .7	
01X004:5	4 .7	
01X004:6	4 .7	
01X004:10	14 .1	
01X004:11	14 .1	
01X004:12		
01X004:13	14 .2	
01X004:14	14 .6	
01X004:15	14 .6	
01X004:16	14 .6	
01X004:17	14 .6	
01X004:18	14 .6	
01X004:19	14 .8	
01X004:20	14 .9	
01X004:21	14 .9	
01X004:22	14 .10	
01X004:23	15 .4	
01X004:24	15 .4	
01X004:25	15 .4	
01X004:26	15 .4	

Terminal	Page .Col.	Opt.
01X004:27	15 .6	
01X004:28	15 .6	
01X004:29	15 .6	
01X004:30	15 .6	
01X006:1	21 .7	
01X006:2	21 .8	
01X006:3	21 .8	
01X006:4		
01X006:5	23 .2	
01X006:6	23 .2	
01X006:7	23 .3	
01X006:8	23 .3	
01X006:9	23 .4	
01X006:10	23 .4	
01X006:11	23 .6	
01X006:12	23 .6	
01X006:13	23 .7	
01X006:14	23 .7	
01X006:15	23 .8	
01X006:16	23 .8	
01X006:112	31 .7	
01X006:112+	31 .1	
01X006:112-	31 .1	
01X006:113	31 .7	
01X006:114	31 .7	
01X006:115	29 .7	
01X006:115+	29 .2	
01X006:115-	29 .2	

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination CABINET TERMINAL SUMMARY	Page Type CABINET TERMINAL SUMMARY	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0005	Doc. type ELD	Version AA	Page 001

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Cabinet terminal summary of 2858294-0003

Terminal	Page .Col.	Opt.
01X006:116	29 .7	
01X006:116+	29 .2	
01X006:116-	29 .2	
01X006:117	29 .7	
01X006:118	29 .7	
01X006:119	29 .7	
01X006:120	29 .7	
01X006:121	29 .7	
01X006:122	30 .7	
01X006:122+	29 .1	
01X006:122-	29 .1	
01X006:123	30 .7	
01X006:124	30 .7	
01X006:125	30 .7	
01X006:126	24 .3	
01X006:127	24 .5	
01X006:128	24 .4	
01X006:129	24 .4	
01X006:130	24 .4	
01X006:131	24 .4	
01X006:132	25 .1	
01X006:133	25 .3	
01X006:134	25 .1	
01X006:135	25 .2	
01X006:136	25 .1	
01X006:137	25 .2	
01X006:138	25 .6	
01X006:139	25 .8	

Terminal	Page .Col.	Opt.
01X006:140	25 .6	
01X006:141	25 .6	
01X006:142	25 .6	
01X006:143	25 .7	
01X006:144	34 .2	
01X006:145	34 .2	
01X006:146	35 .2	
01X006:147	35 .2	
01X006:148	35 .2	
01X006:149	35 .2	
01X006:150	37 .8	
01X006:151	50 .9	
01X006:152	51 .10	
01X006:153	35 .2	
01X006:155	37 .8	
01X006:156	50 .9	
01X006:157	51 .10	
01X006:158		
01X006:159		
01X006:160	37 .8	
01X006:161		
01X006:162	36 .7	
01X006:163	37 .8	
01X006:164	37 .8	
01X006:165		
01X006:166	36 .3	
01X006:167	36 .3	
01X006:168	36 .3	

Terminal	Page .Col.	Opt.
01X006:169	36 .3	
01X006:170	52 .3	
01X006:171	52 .3	
01X006:172	52 .3	
01X006:173	52 .3	
01X006:174	52 .3	
01X006:175	52 .3	
01X006:176	52 .3	
01X006:177	52 .3	
01X006:178	52 .3	
01X006:179	52 .3	
01X006:180	52 .1	
01X006:181	52 .1	
01X006:182	52 .2	
01X006:⏚	37 .8	
01X006:⏚	51 .10	
01X006:⏚	23 .7	
01X006:⏚		
01X006:⏚		
01X006:⏚		
01X006:⏚		
01X006:⏚		
01X101: ⏚	2 .3	
01X101: ⏚	2 .3	
20X001:1	16 .6	
21X401:1	16 .10	
21X601: 1	17 .9	OUT. P.CONV.
50X101:1	17 .5	

Terminal	Page .Col.	Opt.
81X401:BK	19 .7	
81X401:BU	19 .7	
81X401:RD	19 .7	
81X401:SH	19 .7	
81X401:WH	19 .7	
81X402:BK	19 .5	
81X402:BU	19 .5	
81X402:RD	19 .5	
81X402:SH	19 .5	
81X402:WH	19 .5	
81X403:BK	19 .2	
81X403:BU	19 .2	
81X403:RD	19 .2	
81X403:SH	19 .2	
81X403:WH	19 .2	
81X404:BK	19 .1	
81X404:BU	19 .1	
81X404:RD	19 .1	
81X404:SH	19 .1	
81X404:WH	19 .1	

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination CABINET TERMINAL SUMMARY	Page Type CABINET TERMINAL SUMMARY	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0005	Doc. type ELD	Version AA	Page 002

7 Terminal Strip Overview

Description

All terminals used in the equipment except for those in the electrical cabinet are listed in this chapter.

RELEASED

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Terminal strip of 2858294-0003

01X201

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
			1		81W500:1	81K500:RJ12	018 .3	COM.UNIT	COMMUNICATION UNIT

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 001

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be copied, transmitted or disclosed to any third party.

1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

01X400

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01X006:10	01W401:1		1			09F102:51	023 .4		CONTROL PANEL EMERGENCY STOP
01X006:9	01W401:2		2			09F102:11	023 .4		CONTROL PANEL EMERGENCY STOP
01X006:11	01W401:3		3			09F102:52	023 .5		CONTROL PANEL EMERGENCY STOP
01X006:12	01W401:4		4			09F102:12	023 .5		CONTROL PANEL EMERGENCY STOP
			5			01K335:4	049 .5		READY SIGNAL (RS) FOR LINE
			6			01K335:3	049 .5		READY SIGNAL (RS) FOR LINE
			7			01K336:4	049 .5		PACKAGE COMING (PC) FOR LINE
			8			01K336:3	049 .5		PACKAGE COMING (PC) FOR LINE
01X006:150	01W401:5		100			01K320:4	037 .8		REMOTE I/O ADAPTER O.P. BOX
			101		21W412:BU	21X412:3	040 .2		LONG PACKAGE QUEUE
			102		21W414:BU	21X414:3	040 .2		SHORT PACKAGE QUEUE
			103		21W416:BU	21X416:3	040 .2		VERIFIES PACKAGE STANDING
			104		21W418:BU	21X418:3	040 .2		TOO LONG PACKAGE QUEUE
			105			01K326:C	043 .6		
			106			01K330:C	047 .6		
			108						
			109						
01X006:155	01W401:6		110			01K320:6	037 .8		REMOTE I/O ADAPTER O.P. BOX
			111		21W412:BN	21X412:1	040 .2		LONG PACKAGE QUEUE
			112		21W414:BN	21X414:1	040 .2		SHORT PACKAGE QUEUE
			113		21W416:BN	21X416:1	040 .2		VERIFIES PACKAGE STANDING
			114		21W418:BN	21X418:1	040 .2		TOO LONG PACKAGE QUEUE
			115			01S400:13	038 .3		STEP UP
01X006:160	01W401:7		116			01K326:V	043 .6		
			117						
01X006:163	01W401:8		118				037 .8		
01X006:164	01W401:9		119			01K330:V	037 .8		
			⏚			01K320:2	037 .6		REMOTE I/O ADAPTER O.P. BOX
			⏚			01K326:CHAS GND	043 .6		
			⏚		01W510:GNYE	01P510:E	045 .3		

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 002

RELEASED

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1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

Terminal strip of 2858294-0003

01X400

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
			⏚			01K330:CHAS GND	047 .6		
01X006:⏚	01W401:GNYE		⏚				037 .8		
			⏚				014 .8		
			⏚						
			⏚						

This drawing must not without the consent of Tetra Pak
be copied, transmitted or disclosed to any third party.

1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

09X201

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
			1.1		09W210:BN	09F210:BN	024 .3		DOOR FRONT 1
			1.2		09W210:WH	09F210:WH	024 .4		DOOR FRONT 1
			1.3		09W210:BU	09F210:BU	024 .4		DOOR FRONT 1
			1.4		09W210:BK	09F210:BK	024 .4		DOOR FRONT 1
			1.5		09W210:GY	09F210:GY	024 .4		DOOR FRONT 1
			2.1		09W212:BN	09F212:BN	024 .4		DOOR FRONT 1
			2.2		09W212:WH	09F212:WH	024 .4		DOOR FRONT 1
			2.3		09W212:BU	09F212:BU	024 .5		DOOR FRONT 1
			2.4		09W212:BK	09F212:BK	024 .5		DOOR FRONT 1
			2.5		09W212:GY	09F212:GY	024 .5		DOOR FRONT 1
			3.1		09W214:BN	09F214:BN	024 .5		DOOR FRONT 2
			3.2		09W214:WH	09F214:WH	024 .5		DOOR FRONT 2
			3.3		09W214:BU	09F214:BU	024 .5		DOOR FRONT 2
			3.4		09W214:BK	09F214:BK	024 .6		DOOR FRONT 2
			3.5		09W214:GY	09F214:GY	024 .6		DOOR FRONT 2
			4.1		09W216:BN	09F216:BN	024 .6		DOOR FRONT 2
			4.2		09W216:WH	09F216:WH	024 .6		DOOR FRONT 2
			4.3		09W216:BU	09F216:BU	024 .6		DOOR FRONT 2
			4.4		09W216:BK	09F216:BK	024 .6		DOOR FRONT 2
			4.5		09W216:GY	09F216:GY	024 .7		DOOR FRONT 2

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 004

RELEASED

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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

09X202

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
			1.1		09W230:BN	09F230:BN	025 .1		DOOR REAR 1
			1.2		09W230:WH	09F230:WH	025 .1		DOOR REAR 1
			1.3		09W230:BU	09F230:BU	025 .1		DOOR REAR 1
			1.4		09W230:BK	09F230:BK	025 .2		DOOR REAR 1
			1.5		09W230:GY	09F230:GY	025 .2		DOOR REAR 1
			2.1		09W232:BN	09F232:BN	025 .2		DOOR REAR 2
			2.2		09W232:WH	09F232:WH	025 .2		DOOR REAR 2
			2.3		09W232:BU	09F232:BU	025 .2		DOOR REAR 2
			2.4		09W232:BK	09F232:BK	025 .2		DOOR REAR 2
			2.5		09W232:GY	09F232:GY	025 .3		DOOR REAR 2
			3.1		09W234:BN	09F234:BN	025 .3		OPERATOR PANELDOOR
			3.2		09W234:WH	09F234:WH	025 .3		OPERATOR PANELDOOR
			3.3		09W234:BU	09F234:BU	025 .3		OPERATOR PANELDOOR
			3.4		09W234:BK	09F234:BK	025 .3		OPERATOR PANELDOOR
			3.5		09W234:GY	09F234:GY	025 .3		OPERATOR PANELDOOR
			4.1			09F236:+24V	025 .4		TINA 2 PLUG
			4.2			09F236:IN	025 .4		TINA 2 PLUG
			4.3			09F236:0V	025 .4		TINA 2 PLUG
			4.4			09F236:OUT	025 .4		TINA 2 PLUG
			4.5			09F236:INFO	025 .4		TINA 2 PLUG

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

09X203

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
			1.1		09W310:BN	09F310:BN	025 .6		CAP SORTERCOVER1
			1.2		09W310:WH	09F310:WH	025 .6		CAP SORTERCOVER1
			1.3		09W310:BU	09F310:BU	025 .6		CAP SORTERCOVER1
			1.4		09W310:BK	09F310:BK	025 .6		CAP SORTERCOVER1
			1.5		09W310:GY	09F310:GY	025 .7		CAP SORTERCOVER1
			2.1		09W312:BN	09F312:BN	025 .7		CAP SORTERCOVER2
			2.2		09W312:WH	09F312:WH	025 .7		CAP SORTERCOVER2
			2.3		09W312:BU	09F312:BU	025 .7		CAP SORTERCOVER2
			2.4		09W312:BK	09F312:BK	025 .7		CAP SORTERCOVER2
			2.5		09W312:GY	09F312:GY	025 .7		CAP SORTERCOVER2
			3.1		09W314:BN	09F314:BN	025 .8		CAP SORTERCOVER3
			3.2		09W314:WH	09F314:WH	025 .8		CAP SORTERCOVER3
			3.3		09W314:BU	09F314:BU	025 .8		CAP SORTERCOVER3
			3.4		09W314:BK	09F314:BK	025 .8		CAP SORTERCOVER3
			3.5		09W314:GY	09F314:GY	025 .8		CAP SORTERCOVER3
			4.1			09F316:+24V	025 .9		TINA 2 PLUG
			4.2			09F316:IN	025 .9		TINA 2 PLUG
			4.3			09F316:0V	025 .9		TINA 2 PLUG
			4.4			09F316:OUT	025 .9		TINA 2 PLUG
			4.5			09F316:INFO	025 .9		TINA 2 PLUG

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

09X241

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01K329:OUT-0	09W241:BN		1			09K241:1	046 .4		LOCKER DOOR FRONT 1
01K329:C	09W241:BU		2			09K241:2	046 .5		LOCKER DOOR FRONT 1

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

09X242

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01K329:OUT-1	09W242:BN		1			09K242:1	046 .4		LOCKER DOOR FRONT 2
01K329:C	09W242:BU		2			09K242:2	046 .5		LOCKER DOOR FRONT 2

Drawing remarks

Tetra Pak

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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

21X320

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01X006:112+	21W324:BN		1.1		21W300:BN	21B300:	031 .2	WASTE D.	CAP DETECTION ON PACKAGE
					21W301:BN	21B301:			CAP DETECTION ON PACKAGE
01X006:112-	21W324:BU		1.3		21W300:BU	21B300:	031 .2	WASTE D.	CAP DETECTION ON PACKAGE
					21W301:BU	21B301:			CAP DETECTION ON PACKAGE
01X006:112	21W324:WH		1.4		21W300:BK	21B300:	031 .6	WASTE D.	CAP DETECTION ON PACKAGE
			2.1		21W302:BN	21B302:	031 .2	WASTE D.	PACKAGE DETECTION
					21W303:BN	21B303:			PACKAGE DETECTION
			2.3		21W302:BU	21B302:	031 .2	WASTE D.	PACKAGE DETECTION
					21W303:BU	21B303:			PACKAGE DETECTION
01X006:113	21W324:GN		2.4		21W302:BK	21B302:	031 .6	WASTE D.	PACKAGE DETECTION
			3.1		21W304:BN	21B304:	031 .2	WASTE D.	OBJECT DETECTIONON PACKAGE CONVEY
					21W305:BN	21B305:			OBJECT DETECTIONON PACKAGE CONVEY
			3.3		21W304:BU	21B304:	031 .2	WASTE D.	OBJECT DETECTIONON PACKAGE CONVEY
					21W305:BU	21B305:			OBJECT DETECTIONON PACKAGE CONVEY
01X006:114	21W324:YE		3.4		21W304:BK	21B304:	031 .6	WASTE D.	OBJECT DETECTIONON PACKAGE CONVEY
01X006:167	21W324:WH/YE		5.2		21W310:BN	21K310:1	036 .4	WASTE D.	WASTE PACKAGE EJECTION ON
			5.3		21W310:BU	21K310:2	036 .7	WASTE D.	WASTE PACKAGE EJECTION ON
01X006:168	21W324:PK		5.4		21W310:BK	21K311:1	036 .4	WASTE D.	WASTE PACKAGE EJECTION OFF
01X006:169	21W324:YE/BN		6.2		21W500:BN	21K500:1	036 .4	WASTE D.	BLOW CLEANINGPACKAGE CONVEYOR
			6.3		21W500:BU	21K500:2	036 .7	WASTE D.	BLOW CLEANINGPACKAGE CONVEYOR

Drawing remarks

Tetra Pak

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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

21X412

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01X400:111	21W412:BN		1		21W402:BN	21B402:	040 .3		LONG PACKAGE QUEUE
					21W401:BN	21B401:			LONG PACKAGE QUEUE
01X400:101	21W412:BU		3		21W402:BU	21B402:	040 .3		LONG PACKAGE QUEUE
					21W401:BU	21B401:			LONG PACKAGE QUEUE
01K323:IN 0	21W412:BK		4		21W402:BK	21B402:	040 .6		LONG PACKAGE QUEUE

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

21X414

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01X400:112	21W414:BN		1		21W404:BN	21B404:	040 .3		SHORT PACKAGE QUEUE
					21W403:BN	21B403:			SHORT PACKAGE QUEUE
01X400:102	21W414:BU		3		21W404:BU	21B404:	040 .3		SHORT PACKAGE QUEUE
					21W403:BU	21B403:			SHORT PACKAGE QUEUE
01K323:IN 1	21W414:BK		4		21W404:BK	21B404:	040 .6		SHORT PACKAGE QUEUE

Drawing remarks

Tetra Pak

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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

21X416

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01X400:113	21W416:BN		1		21W406:BN	21B406:	040 .3		VERIFIES PACKAGE STANDING
					21W405:BN	21B405:			VERIFIES PACKAGE STANDING
01X400:103	21W416:BU		3		21W406:BU	21B406:	040 .3		VERIFIES PACKAGE STANDING
					21W405:BU	21B405:			VERIFIES PACKAGE STANDING
01K323:IN 2	21W416:BK		4		21W406:BK	21B406:	040 .6		VERIFIES PACKAGE STANDING

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

21X418

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01X400:114	21W418:BN		1		21W408:BN	21B408:	040 .3		TOO LONG PACKAGE QUEUE
					21W407:BN	21B407:			TOO LONG PACKAGE QUEUE
01X400:104	21W418:BU		3		21W408:BU	21B408:	040 .3		TOO LONG PACKAGE QUEUE
					21W407:BU	21B407:			TOO LONG PACKAGE QUEUE
01K323:IN 3	21W418:BK		4		21W408:BK	21B408:	040 .6		TOO LONG PACKAGE QUEUE

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

21X422

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
81K420:0.1	21W422:BN		1		21W424:BN	21B424:	050 .5		PACKAGE CONGESTIONOUTFEED
					21W423:BN	21B423:			PACKAGE CONGESTIONOUTFEED
81K420:0.3	21W422:BU		3		21W424:BU	21B424:	050 .5		PACKAGE CONGESTIONOUTFEED
					21W423:BU	21B423:			PACKAGE CONGESTIONOUTFEED
81K420:0.4	21W422:BK		4		21W424:BK	21B424:	050 .5		PACKAGE CONGESTIONOUTFEED

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

21X612

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
81K420:2.1	21W612:BN		1		21W602:BN	21B602:	050 .5		PACKAGE STOPPINGNEXT D.E.
					21W601:BN	21B601:			PACKAGE STOPPINGNEXT D.E.
81K420:2.3	21W612:BU		3		21W602:BU	21B602:	050 .5		PACKAGE STOPPINGNEXT D.E.
					21W601:BU	21B601:			PACKAGE STOPPINGNEXT D.E.
81K420:2.4	21W612:BK		4		21W602:BK	21B602:	050 .5		PACKAGE STOPPINGNEXT D.E.

Drawing remarks

Tetra Pak

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Terminal strip of 2858294-0003

30X120

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01X006:116+	30W120:BN		1.1				029 .3		
01X006:116-	30W120:BU		1.3				029 .3		
01X006:116	30W120:WH		1.4				029 .6		
			2.1		30W101:BN	30B101:	029 .3		PACKAGE CRASHEED INTOPACKEGE LINE
			2.3		30W101:BU	30B101:	029 .3		PACKAGE CRASHEED INTOPACKEGE LINE
01X006:117	30W120:GN		2.4		30W101:BK	30B101:	029 .6		PACKAGE CRASHEED INTOPACKEGE LINE
			3.1		30W102:BN	30B102:	029 .3		CAP HOLDER 1 APPLICATOR WHEEL
			3.3		30W102:BU	30B102:	029 .3		CAP HOLDER 1 APPLICATOR WHEEL
01X006:118	30W120:YE		3.4		30W102:BK	30B102:	029 .6		CAP HOLDER 1 APPLICATOR WHEEL
			4.1		40W012:BN	40B012:	029 .3		OVER STROKE AXIS + (FRONT)GLUE AP
01X006:119	30W120:BN/GN		4.2		40W012:BK	40B012:	029 .6		OVER STROKE AXIS + (FRONT)GLUE AP
			4.3		40W012:BN	40B012:	029 .3		OVER STROKE AXIS + (FRONT)GLUE AP
			5.1		40W013:BN	40B013:	029 .3		OVER STROKE AXIS - (BACK)GLUE APP
01X006:120	30W120:WH/YE		5.2		40W013:BK	40B013:	029 .6		OVER STROKE AXIS - (BACK)GLUE APP
			5.3		40W013:BN	40B013:	029 .3		OVER STROKE AXIS - (BACK)GLUE APP
			6.3		40W100:2	40X100:2	035 .6		HOT MELT GUN 1OPENING
01X006:146	30W120:YE/BN		6.4		40W100:1	40X100:1	035 .3		HOT MELT GUN 1OPENING
			7.3		40W101:2	40X101:2	035 .6		HOT MELT GUN 2 OPENING
01X006:147	30W120:WH/GY		7.4		40W101:1	40X101:1	035 .3		HOT MELT GUN 2 OPENING
			8.3				035 .6		
01X006:148	30W120:GY/BN		8.4				035 .3		

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

30X130

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01X006:122+	30W130:BN		1.1		40W202:BN	40B202:BN	029 .3		CAP SEQUENCER STOPPER CLOSE
01X006:122-	30W130:BU		1.3		40W202:BU	40B202:BU	029 .3		CAP SEQUENCER STOPPER CLOSE
01X006:121	30W130:WH		1.4		40W202:BK	40B202:BK	029 .6		CAP SEQUENCER STOPPER CLOSE
			2.1		40W200:BN	40B200:	030 .3		CAP INFEEDED INTOCAP SEQUENCER
			2.3		40W200:BN	40B200:	030 .3		CAP INFEEDED INTOCAP SEQUENCER
01X006:122	30W130:RD/BU		2.4		40W200:BK	40B200:	030 .6		CAP INFEEDED INTOCAP SEQUENCER
			3.1		40W010:BN	40B010:	030 .3		OVER STROKE AXIS X + (LEFT)GLUE
01X006:123	30W130:WH/GN		3.2		40W010:BK	40B010:	030 .6		OVER STROKE AXIS X + (LEFT)GLUE
			3.3		40W010:BN	40B010:	030 .3		OVER STROKE AXIS X + (LEFT)GLUE
			4.1		40W011:BN	40B011:	030 .3		OVER STROKE AXIS X - (RIGHT)GLUE
01X006:124	30W130:BN/GN		4.2		40W011:BK	40B011:	030 .6		OVER STROKE AXIS X - (RIGHT)GLUE
			4.3		40W011:BN	40B011:	030 .3		OVER STROKE AXIS X - (RIGHT)GLUE
			5.1				030 .3		
			5.3				030 .3		
01X006:125	30W130:PK		5.4				030 .6		
01X006:144	30W130:YE/BN		6.2		40W210:BN	40K210:1	034 .3		CAP SEQUENCER QUEUESTOPPER OPENIN
			6.3		40W210:BU	40K210:2	034 .6		CAP SEQUENCER QUEUESTOPPER OPENIN
01X006:145	30W130:RD		6.4		40W210:BK	40K211:1	034 .4		CAP SEQUENCER QUEUESTOPPER CLOSUR
			7.3				035 .6		
01X006:149	30W130:GY/BN		7.4				035 .3		
			8.3				035 .6		
01X006:153	30W130:WH/GY		8.4				035 .3		

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

40X100

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
30X120:6.4	40W100:1		1			40K100:1	035 .4		HOT MELT GUN 1OPENING
30X120:6.3	40W100:2		2			40K100:2	035 .5		HOT MELT GUN 1OPENING

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

40X101

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
30X120:7.4	40W101:1		1			40K101:1	035 .4		HOT MELT GUN 2 OPENING
30X120:7.3	40W101:2		2			40K101:2	035 .5		HOT MELT GUN 2 OPENING

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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Terminal strip of 2858294-0003

40X400

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01X004:23	40W410:1		1		40W400:1	40M400:U	015 .4		CAP CONVEYOR
01X004:24	40W410:2		2		40W400:2	40M400:V	015 .4		CAP CONVEYOR
01X004:25	40W410:3		3		40W400:3	40M400:W	015 .4		CAP CONVEYOR
01X004:26	40W410:GNYE		⏚		40W400:GNYE	40M400:⏚	015 .4		CAP CONVEYOR

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
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Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 020

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Terminal strip of 2858294-0003

40X502

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01K340:0.1	40W502:BN		1		40W501:BN	40B501:	051 .5		CAP CONVEYOR MIN. QUEUE
					40W500:BN	40B500:			CAP CONVEYOR MIN. QUEUE
01K340:0.3	40W502:BU		3		40W501:BU	40B501:	051 .5		CAP CONVEYOR MIN. QUEUE
					40W500:BU	40B500:			CAP CONVEYOR MIN. QUEUE
01K340:0.4	40W502:BK		4		40W501:BK	40B501:	051 .5		CAP CONVEYOR MIN. QUEUE

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 021

This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.

1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

40X506

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01K340:1.1	40W506:BN		1		40W505:BN	40B505:	051 .5		CAP CONVEYOR MAX. QUEUE
					40W504:BN	40B504:			CAP CONVEYOR MAX. QUEUE
01K340:1.3	40W506:BU		3		40W505:BU	40B505:	051 .5		CAP CONVEYOR MAX. QUEUE
					40W504:BU	40B504:			CAP CONVEYOR MAX. QUEUE
01K340:1.4	40W506:BK		4		40W505:BK	40B505:	051 .5		CAP CONVEYOR MAX. QUEUE

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 022

This drawing must not without the consent of Tetra Pak
be copied, transmitted or disclosed to any third party.

1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

50X000

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01X004:27	50W010:1		1		50W000:1	50M000:U	015 .6		CAP ELEVATOR
01X004:28	50W010:2		2		50W000:2	50M000:V	015 .6		CAP ELEVATOR
01X004:29	50W010:3		3		50W000:3	50M000:W	015 .6		CAP ELEVATOR
01X004:30	50W010:GNYE		⏚		50W000:GNYE	50M000:⏚	015 .6		CAP ELEVATOR

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 023

RELEASED

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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

50X001

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01X006:152	50W004:1		1		01W340:BU	01K340:3	051 .9		ARMOR BLOCK (CAP SORTER)
					01W340:BK	01K340:4			ARMOR BLOCK (CAP SORTER)
01X006:157	50W004:2		2		01W340:BN	01K340:1	051 .9		ARMOR BLOCK (CAP SORTER)
					01W340:WH	01K340:2			ARMOR BLOCK (CAP SORTER)
01X006:166	50W004:3		3		50W104:BK	50X104:	036 .4		
50X104:	50W104:BU		4		50W004:4	01X006:162	036 .7		
01X006:⏚	50W004:GNYE		⏚				051 .9		

Drawing remarks	Tetra Pak	Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
		ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
	Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 024

This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.

1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

50X012

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
01K340:2.1	50W012:BN		1		50W014:BN	50B014:	051 .5		LOW LEVEL PADDLE ELEVATOR
					50W013:BN	50B013:			LOW LEVEL PADDLE ELEVATOR
01K340:2.3	50W012:BU		3		50W014:BU	50B014:	051 .5		LOW LEVEL PADDLE ELEVATOR
					50W013:BU	50B013:			LOW LEVEL PADDLE ELEVATOR
01K340:2.4	50W012:BK		4		50W014:BK	50B014:	051 .5		LOW LEVEL PADDLE ELEVATOR

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 025

This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.

1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

50X110

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
50Q100:2	50W110:1		1		50W100:1	50M100:U	017 .4		CAP SORTER DISK
50Q100:4	50W110:2		2		50W100:2	50M100:V	017 .4		CAP SORTER DISK
50Q100:6	50W110:3		3		50W100:3	50M100:W	017 .4		CAP SORTER DISK
PE:	50W110:SH		4		50W100:SH	PE:	017 .5		
50X101:1	50W110:GNYE		⏚		50W100:GNYE	50M100:⏚	017 .5		CAP SORTER DISK

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 026

RELEASED

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1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

Terminal strip of 2858294-0003

70X001

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
			1				052 .8		REMOTE CAMERA HEAD
			2				052 .5		REMOTE CAMERA HEAD

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 027

RELEASED

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1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

Terminal strip of 2858294-0003

81X200

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
			1				021 .3		PLC RACK
			2				018 .3		ETHERNET SWITCH

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 028

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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

81X201

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
			1				021 .3		CONTROL PANEL
			2				021 .7		ETHERNET SWITCH

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 029

RELEASED

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1 2 3 4 5 6 7 8 9 10

Terminal strip of 2858294-0003

81X203

From	Cable	Internal Jumper	Terminal	External Jumper	Cable	To	Page.Col.	Option	Function text
			1				021 .3		VISION SYSTEM DEVICE
			2				052 .8		ETHERNET SWITCH

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination TERMINAL STRIP OVERVIEW	Page Type TERMINAL STRIP OVERVIEW	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0006	Doc. type ELD	Version AA	Page 030

8 Cable Connection List

Description

All cable connections used in the equipment are listed in this chapter.

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Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
01W340	BN	50X001:2	01K340:1	51 .9	
01W340	BU	50X001:1	01K340:3	51 .9	
01W340	WH	50X001:2	01K340:2	51 .9	
01W340	BK	50X001:1	01K340:4	51 .9	
01W400	1	01X006:1	01A400:24V	21 .7	
01W400	2	01X006:2	01A400:0V	21 .8	
01W400	GNYE	01X006:3	01A400:E	21 .8	
01W401	1	01X006:10	01X400:1	23 .4	
01W401	2	01X006:9	01X400:2	23 .4	
01W401	3	01X006:11	01X400:3	23 .6	
01W401	4	01X006:12	01X400:4	23 .6	
01W401	5	01X006:150	01X400:100	37 .8	
01W401	6	01X006:155	01X400:110	37 .8	
01W401	7	01X006:160	01X400:116	37 .6	
01W401	8	01X006:163	01X400:118	37 .8	
01W401	9	01X006:164	01X400:119	37 .8	
01W401	10				
01W401	11				
01W401	GNYE	01X006:⏚	01X400:⏚	37 .8	
01W500	1	01X004:14	01V500:L1	14 .6	
01W500	2	01X004:15	01V500:L2	14 .6	
01W500	3	01X004:16	01V500:L3	14 .6	
01W500	4	01X004:17	01V500:N	14 .6	
01W500	GNYE	01X004:18	01V500:	14 .6	
01W501	1	01V500:1	01K324:V	14 .7	
01W501	2	01V500:2	01K324:IN-2	14 .7	
01W501	3	01V500:6	01K324:IN-3	14 .7	

Cable	Core	From	To	Page.Col.	Option
01W501	4				
01W501	GNYE	01X400:⏚		14	
01W510	1	01K328:OUT-0	01P510:1	45 .4	
01W510	2	01K328:OUT-1	01P510:2	45 .4	
01W510	3	01K328:OUT 2	01P510:3	45 .4	
01W510	4	01K328:OUT 3	01P513:1	45 .4	
01W510	5	01K328:C	01P513:2	45 .4	
01W510	GNYE	01X400:⏚	01P510:E	45 .4	
01W701	1	01X004:1	01E701:1	4 .5	
01W701	2	01X004:2	01E701:2	4 .6	
01W701	GNYE	01X004:3	01E701:E	4 .6	
01W702	1	01X004:4	01E702:1	4 .7	
01W702	2	01X004:5	01E702:2	4 .7	
01W702	GNYE	01X004:6	01E702:E	4 .7	
01W800	1	01K331:OUT-0	01K800:1	48 .5	
01W800	2	01K331:C	01K800:2	48 .5	
01W801	1	01B801:13	01K324:V	41 .5	
01W801	2	01B801:14	01K324:IN-0	41 .7	
01W901	BN	01B901:NC	81K420:6.1	50 .6	
01W901	BU				
01W901	BK	01B901:C	81K420:6.4	50 .6	
01W902	BN	01B902:13	81K420:7.1	50 .6	
01W902	BU				
01W902	BK	01B902:14	81K420:7.4	50 .6	
01W903	BN	01K331:OUT-1	01K900:1	48 .5	
01W903	BU	01K331:C	21K000:2	48 .5	
01W903	BK	01K331:OUT 2	21K000:1	48 .5	

Drawing remarks

Tetra Pak

Designer	Date	Machine
QUE	26/04/2006	SCREWCAP Platform (FLEX)

ECM No	Denomination	Page Type
276887	CABLE CONNECTION LIST	CABLE CONNECTION LIST

Company	Document No.	Doc. type	Version	Page
Tetra Pak Carton Ambient S.p.A	2858294-0007	ELD	AA	001

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1 2 3 4 5 6 7 8 9 10

Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
01W904	BN	01K332:OUT-0	20K300:1	49 .4	
01W904	BU	01K332:C	40K203:2	49 .4	
01W904	BK	01K332:OUT-1	40K203:1	49 .4	
09W103	1	01X006:14	09F103:51	23 .7	
09W103	2	01X006:13	09F103:11	23 .7	
09W103	3	01X006:15	09F103:52	23 .8	
09W103	4	01X006:16	09F103:12	23 .8	
09W103	GNYE	01X006:⏚		23	
09W201	BN	01X006:126	09F201:+24V	24 .3	
09W201	WH	01X006:127	09F201:IN	24 .3	
09W201	BU	01X006:128	09F201:0V	24 .3	
09W201	BK	01X006:129	09F201:OUT	24 .3	
09W201	GY	01X006:130	09F201:13	24 .3	
09W201	SH	01X006:131	09W201:	24 .4	
09W202	BN	01X006:132	09F236:+24V	25 .1	
09W202	WH	01X006:133	09F236:IN	25 .1	
09W202	BU	01X006:134	09F236:0V	25 .1	
09W202	BK	01X006:135	09F236:OUT	25 .1	
09W202	GY	01X006:136	09F236:13	25 .1	
09W202	SH	01X006:137	09W202:	25 .2	
09W203	BN	01X006:138	09F316:+24V	25 .6	
09W203	WH	01X006:139	09F316:IN	25 .6	
09W203	BU	01X006:140	09F316:0V	25 .6	
09W203	BK	01X006:141	09F316:OUT	25 .6	
09W203	GY	01X006:142	09F316:13	25 .6	
09W203	SH	01X006:143	09W203:	25 .7	
09W210	BN	09X201:1.1	09F210:BN	24 .3	

Cable	Core	From	To	Page.Col.	Option
09W210	BU	09X201:1.3	09F210:BU	24 .3	
09W210	GY	09X201:1.5	09F210:GY	24 .3	
09W210	BK	09X201:1.4	09F210:BK	24 .3	
09W210	WH	09X201:1.2	09F210:WH	24 .3	
09W212	BN	09X201:2.1	09F212:BN	24 .4	
09W212	BU	09X201:2.3	09F212:BU	24 .4	
09W212	GY	09X201:2.5	09F212:GY	24 .4	
09W212	BK	09X201:2.4	09F212:BK	24 .4	
09W212	WH	09X201:2.2	09F212:WH	24 .4	
09W214	BN	09X201:3.1	09F214:BN	24 .5	
09W214	WH	09X201:3.2	09F214:WH	24 .5	
09W214	BU	09X201:3.3	09F214:BU	24 .5	
09W214	BK	09X201:3.4	09F214:BK	24 .5	
09W214	GY	09X201:3.5	09F214:GY	24 .5	
09W216	BN	09X201:4.1	09F216:BN	24 .6	
09W216	WH	09X201:4.2	09F216:WH	24 .6	
09W216	BU	09X201:4.3	09F216:BU	24 .6	
09W216	BK	09X201:4.4	09F216:BK	24 .6	
09W216	GY	09X201:4.5	09F216:GY	24 .6	
09W230	BN	09X202:1.1	09F230:BN	25 .1	
09W230	WH	09X202:1.2	09F230:WH	25 .1	
09W230	BU	09X202:1.3	09F230:BU	25 .1	
09W230	BK	09X202:1.4	09F230:BK	25 .1	
09W230	GY	09X202:1.5	09F230:GY	25 .1	
09W232	BN	09X202:2.1	09F232:BN	25 .2	
09W232	WH	09X202:2.2	09F232:WH	25 .2	
09W232	BU	09X202:2.3	09F232:BU	25 .2	

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination CABLE CONNECTION LIST	Page Type CABLE CONNECTION LIST	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0007	Doc. type ELD	Version AA	Page 002

This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.

Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
09W232	BK	09X202:2.4	09F232:BK	25 .2	
09W232	GY	09X202:2.5	09F232:GY	25 .2	
09W234	BN	09X202:3.1	09F234:BN	25 .3	
09W234	WH	09X202:3.2	09F234:WH	25 .3	
09W234	BU	09X202:3.3	09F234:BU	25 .3	
09W234	BK	09X202:3.4	09F234:BK	25 .3	
09W234	GY	09X202:3.5	09F234:GY	25 .3	
09W241	BN	09X241:1	01K329:OUT-0	46 .4	
09W241	BU	09X241:2	01K329:C	46 .5	
09W241	GY				
09W241	BK				
09W241	WH				
09W242	BN	09X242:1	01K329:OUT-1	46 .4	
09W242	BU	09X242:2	01K329:C	46 .5	
09W242	GY				
09W242	BK				
09W242	WH				
09W310	WH	09X203:1.2	09F310:WH	25 .6	
09W310	BN	09X203:1.1	09F310:BN	25 .6	
09W310	BU	09X203:1.3	09F310:BU	25 .6	
09W310	BK	09X203:1.4	09F310:BK	25 .6	
09W310	GY	09X203:1.5	09F310:GY	25 .6	
09W312	WH	09X203:2.2	09F312:WH	25 .7	
09W312	BN	09X203:2.1	09F312:BN	25 .7	
09W312	BU	09X203:2.3	09F312:BU	25 .7	
09W312	BK	09X203:2.4	09F312:BK	25 .7	
09W312	GY	09X203:2.5	09F312:GY	25 .7	

Cable	Core	From	To	Page.Col.	Option
09W314	WH	09X203:3.2	09F314:WH	25 .8	
09W314	BN	09X203:3.1	09F314:BN	25 .8	
09W314	BU	09X203:3.3	09F314:BU	25 .8	
09W314	BK	09X203:3.4	09F314:BK	25 .8	
09W314	GY	09X203:3.5	09F314:GY	25 .8	
20W000	1	20Q000:2	20M000:U	16 .5	
20W000	2	20Q000:4	20M000:V	16 .5	
20W000	3	20Q000:6	20M000:W	16 .5	
20W000	GNYE	20X001:1	20M000:⏚	16 .6	
20W000	SH	PE:	PE:	16 .6	
20W003	BN	01X006:115-	20B003:	29 .4	
20W003	BN	01X006:115+	20B003:	29 .4	
20W003	BK	01X006:115	20B003:	29 .7	
21W000	BN	21B000:	81K420:4.1	50 .6	
21W000	BU	21B000:	81K420:4.3	50 .6	
21W000	BK	21B000:	81K420:4.4	50 .6	
21W100	BN	21T100:1 U	21M100:U A	9 .1	
21W100	BK	21T100:2 V	21M100:V B	9 .1	
21W100	BU	21T100:2 W	21M100: W C	9 .1	
21W100	GNYE	21T100:4 GND	21M100:GND	9 .1	
21W100	SH	PE:	PE:	9 .2	
21W101	BK	21T100:M/F D1	21M100:SIN+ A	9 .1	
21W101	WH/BK	21T100:M/F D2	21M100:SIN- B	9 .1	
21W101	RD	21T100:M/F D3	21M100:COS+ C	9 .1	
21W101	WH/RD	21T100:M/F D4	21M100:COS- D	9 .1	
21W101	GN	21T100:M/F D5	21M100:DATA+ E	9 .1	
21W101	WH/GN	21T100:M/F D10	21M100:DATA- F	9 .1	

Drawing remarks

Tetra Pak

Designer	Date	Machine
QUE	26/04/2006	SCREWCAP Platform (FLEX)

ECM No	Denomination	Page Type
276887	CABLE CONNECTION LIST	CABLE CONNECTION LIST

Company	Document No.	Doc. type	Version	Page
Tetra Pak Carton Ambient S.p.A	2858294-0007	ELD	AA	003

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be copied, transmitted or disclosed to any third party.

Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
21W101	GY	21T100:M/F D14	21M100:K	9 .1	
21W101	WH/GY	21T100:M/F D6	21M100:ECOM L	9 .1	
21W101	OG	21T100:M/F D7	21M100:+9VDC N	9 .1	
21W101	WH/OG	21T100:M/F D11	21M100:TS+ R	9 .1	
21W101	BU				
21W101	WT/BU	21T100:M/F D12	21M100:T	9 .1	
21W101	YE	21T100:M/F D13	21M100:NC	9 .1	
21W101	WH/YE	21T100:M/F D8	21M100:NC	9 .1	
21W101	BN	21T100:M/F D9	21M100:NC	9 .1	
21W101	WH/BN	21T100:M/F D15	21M100:NC	9 .1	
21W101	SH	PE:	PE:	9 .5	
21W200	BN	21T200:1 U	21M200:U A	10 .1	
21W200	BK	21T200:2 V	21M200:V B	10 .1	
21W200	BU	21T200:2 W	21M200: W C	10 .1	
21W200	GNYE	21T200:4 GND	21M200:GND	10 .1	
21W200	SH	PE:	PE:	10 .2	
21W201	BK	21T200:M/F D1	21M200:SIN+ A	10 .1	
21W201	WH/BK	21T200:M/F D2	21M200:SIN- B	10 .1	
21W201	RD	21T200:M/F D3	21M200:COS+ C	10 .1	
21W201	WH/RD	21T200:M/F D4	21M200:COS- D	10 .1	
21W201	GN	21T200:M/F D5	21M200:DATA+ E	10 .1	
21W201	WH/GN	21T200:M/F D10	21M200:DATA- F	10 .1	
21W201	GY	21T200:M/F D14	21M200:K	10 .1	
21W201	WH/GY	21T200:M/F D6	21M200:ECOM L	10 .1	
21W201	OG	21T200:M/F D7	21M200:+9VDC N	10 .1	
21W201	WH/OG	21T200:M/F D11	21M200:TS+ R	10 .1	
21W201	BU				

Cable	Core	From	To	Page.Col.	Option
21W201	WT/BU	21T200:M/F D12	21M200:T	10 .1	
21W201	YE	21T200:M/F D13	21M200:NC	10 .1	
21W201	WH/YE	21T200:M/F D8	21M200:NC	10 .1	
21W201	BN	21T200:M/F D9	21M200:NC	10 .1	
21W201	WH/BN	21T200:M/F D15	21M200:NC	10 .1	
21W201	SH	PE:	PE:	10 .5	
21W300	BN	21X320:1.1	21B300:	31 .5	WASTE D.
21W300	BU	21X320:1.3	21B300:	31 .5	WASTE D.
21W300	BK	21X320:1.4	21B300:	31 .6	WASTE D.
21W301	BN	21X320:1.1	21B301:	31 .5	WASTE D.
21W301	BU	21X320:1.3	21B301:	31 .5	WASTE D.
21W302	BN	21X320:2.1	21B302:	31 .3	WASTE D.
21W302	BU	21X320:2.3	21B302:	31 .3	WASTE D.
21W302	BK	21X320:2.4	21B302:	31 .6	WASTE D.
21W303	BN	21X320:2.1	21B303:	31 .3	WASTE D.
21W303	BU	21X320:2.3	21B303:	31 .3	WASTE D.
21W304	BN	21X320:3.1	21B304:	31 .5	WASTE D.
21W304	BU	21X320:3.3	21B304:	31 .5	WASTE D.
21W304	BK	21X320:3.4	21B304:	31 .6	WASTE D.
21W305	BN	21X320:3.1	21B305:	31 .5	WASTE D.
21W305	BU	21X320:3.3	21B305:	31 .5	WASTE D.
21W310	BN	21X320:5.2	21K310:1	36 .5	WASTE D.
21W310	BU	21X320:5.3	21K310:2	36 .7	WASTE D.
21W310	BK	21X320:5.4	21K311:1	36 .5	WASTE D.
21W324	BN	01X006:112+	21X320:1.1	31 .2	WASTE D.
21W324	BU	01X006:112-	21X320:1.3	31 .2	WASTE D.
21W324	GY/PK				WASTE D.

Drawing remarks

Tetra Pak

Designer	Date	Machine
QUE	26/04/2006	SCREWCAP Platform (FLEX)

ECM No	Denomination	Page Type
276887	CABLE CONNECTION LIST	CABLE CONNECTION LIST

Company	Document No.	Doc. type	Version	Page
Tetra Pak Carton Ambient S.p.A	2858294-0007	ELD	AA	004

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Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
21W324	RD/BU				WASTE D.
21W324	WH/GN				WASTE D.
21W324	BN/GN				WASTE D.
21W324	WH/YE	01X006:167	21X320:5.2	36 .4	WASTE D.
21W324	YE/BN	01X006:169	21X320:6.2	36 .4	WASTE D.
21W324	WH/GY				WASTE D.
21W324	GY/BN				WASTE D.
21W324	WH	01X006:112	21X320:1.4	31 .7	WASTE D.
21W324	GN	01X006:113	21X320:2.4	31 .7	WASTE D.
21W324	YE	01X006:114	21X320:3.4	31 .7	WASTE D.
21W324	GY				WASTE D.
21W324	PK	01X006:168	21X320:5.4	36 .4	WASTE D.
21W324	RD				WASTE D.
21W324	BK				WASTE D.
21W324	VT				WASTE D.
21W324	GNYE				WASTE D.
21W400	1	21Q400:2	21M400:U	16 .9	
21W400	2	21Q400:4	21M400:V	16 .9	
21W400	3	21Q400:6	21M400:W	16 .9	
21W400	GNYE	21X401:1	21M400:⏚	16 .10	
21W400	SH	PE:	PE:	16 .10	
21W401	BN	21X412:1	21B401:	40 .4	
21W401	BU	21X412:3	21B401:	40 .4	
21W402	BN	21X412:1	21B402:	40 .5	
21W402	BU	21X412:3	21B402:	40 .5	
21W402	BK	21X412:4	21B402:	40 .6	
21W403	BN	21X414:1	21B403:	40 .4	

Cable	Core	From	To	Page.Col.	Option
21W403	BU	21X414:3	21B403:	40 .4	
21W404	BN	21X414:1	21B404:	40 .5	
21W404	BU	21X414:3	21B404:	40 .5	
21W404	BK	21X414:4	21B404:	40 .6	
21W405	BN	21X416:1	21B405:	40 .4	
21W405	BU	21X416:3	21B405:	40 .4	
21W406	BN	21X416:1	21B406:	40 .5	
21W406	BU	21X416:3	21B406:	40 .5	
21W406	BK	21X416:4	21B406:	40 .6	
21W407	BN	21X418:1	21B407:	40 .4	
21W407	BU	21X418:3	21B407:	40 .4	
21W408	BN	21X418:1	21B408:	40 .5	
21W408	BU	21X418:3	21B408:	40 .5	
21W408	BK	21X418:4	21B408:	40 .6	
21W412	BN	21X412:1	01X400:111	40 .3	
21W412	BU	21X412:3	01X400:101	40 .3	
21W412	BK	21X412:4	01K323:IN 0	40 .7	
21W414	BN	21X414:1	01X400:112	40 .3	
21W414	BU	21X414:3	01X400:102	40 .3	
21W414	BK	21X414:4	01K323:IN 1	40 .7	
21W416	BN	21X416:1	01X400:113	40 .3	
21W416	BU	21X416:3	01X400:103	40 .3	
21W416	BK	21X416:4	01K323:IN 2	40 .7	
21W418	BN	21X418:1	01X400:114	40 .3	
21W418	BU	21X418:3	01X400:104	40 .3	
21W418	BK	21X418:4	01K323:IN 3	40 .7	
21W422	BN	21X422:1	81K420:0.1	50 .6	

Drawing remarks

Tetra Pak

Designer	Date	Machine
QUE	26/04/2006	SCREWCAP Platform (FLEX)

ECM No	Denomination	Page Type
276887	CABLE CONNECTION LIST	CABLE CONNECTION LIST

Company	Document No.	Doc. type	Version	Page
Tetra Pak Carton Ambient S.p.A	2858294-0007	ELD	AA	005

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Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
21W422	BU	21X422:3	81K420:0.3	50 .6	
21W422	BK	21X422:4	81K420:0.4	50 .6	
21W423	BN	21X422:1	21B423:	50 .5	
21W423	BU	21X422:3	21B423:	50 .5	
21W424	BN	21X422:1	21B424:	50 .5	
21W424	BU	21X422:3	21B424:	50 .5	
21W424	BK	21X422:4	21B424:	50 .5	
21W500	BN	21X320:6.2	21K500:1	36 .5	WASTE D.
21W500	BU	21X320:6.3	21K500:2	36 .7	WASTE D.
21W500	BK				WASTE D.
21W600	1	21Q600:2	21M600:U	17 .9	OUT.P.C.
21W600	2	21Q600:4	21M600:V	17 .9	OUT.P.C.
21W600	3	21Q600:6	21M600:W	17 .9	OUT.P.C.
21W600	GNYE	21X601: 1	21M600:⏚	17 .9	OUT.P.C.
21W600	SH	PE:	PE:	17 .10	OUT.P.C.
21W601	BN	21X612:1	21B601:	50 .5	
21W601	BU	21X612:3	21B601:	50 .5	
21W602	BN	21X612:1	21B602:	50 .5	
21W602	BU	21X612:3	21B602:	50 .5	
21W602	BK	21X612:4	21B602:	50 .5	
21W612	BN	21X612:1	81K420:2.1	50 .6	
21W612	BU	21X612:3	81K420:2.3	50 .6	
21W612	BK	21X612:4	81K420:2.4	50 .6	
21W800	1	01X004:10	21M800:U	14 .1	
21W800	2	01X004:11	21M800:N	14 .1	
21W800	GNYE	01X004:13	21M800:⏚	14 .2	
21W801	BK	01X004:19	21R801:F1	14 .8	
21W801	BK	01X004:20	21R801:F2	14 .9	
21W801	GY	01X004:21	21R801:0	14 .9	
21W801	GNYE	01X004:22	21R801:E	14 .10	
30W000	BN	30T000:1 U	30M000:U A	6 .1	
30W000	BK	30T000:2 V	30M000:V B	6 .1	
30W000	BU	30T000:2 W	30M000: W C	6 .1	
30W000	GNYE	30T000:4 GND	30M000:GND	6 .1	
30W000	SH	PE:	PE:	6 .2	
30W001	BK	30T000:M/F D1	30M000:SIN+ A	6 .1	
30W001	WH/BK	30T000:M/F D2	30M000:SIN- B	6 .1	
30W001	RD	30T000:M/F D3	30M000:COS+ C	6 .1	
30W001	WH/RD	30T000:M/F D4	30M000:COS- D	6 .1	
30W001	GN	30T000:M/F D5	30M000:DATA+ E	6 .1	
30W001	WH/GN	30T000:M/F D10	30M000:DATA- F	6 .1	
30W001	GY	30T000:M/F D14	30M000:K	6 .1	
30W001	WH/GY	30T000:M/F D6	30M000:ECOM L	6 .1	
30W001	OG	30T000:M/F D7	30M000:+9VDC N	6 .1	
30W001	WH/OG	30T000:M/F D11	30M000:TS+ R	6 .1	
30W001	BU				
30W001	WT/BU	30T000:M/F D12	30M000:T	6 .1	
30W001	YE	30T000:M/F D13	30M000:NC	6 .1	
30W001	WH/YE	30T000:M/F D8	30M000:NC	6 .1	
30W001	BN	30T000:M/F D9	30M000:NC	6 .1	
30W001	WH/BN	30T000:M/F D15	30M000:NC	6 .1	
30W001	SH	PE:	PE:	6 .5	
30W101	BN	30X120:2.1	30B101:	29 .4	
30W101	BU	30X120:2.3	30B101:	29 .4	

Drawing remarks

Tetra Pak

Designer	Date	Machine
QUE	26/04/2006	SCREWCAP Platform (FLEX)

ECM No	Denomination	Page Type
276887	CABLE CONNECTION LIST	CABLE CONNECTION LIST

Company	Document No.	Doc. type	Version	Page
Tetra Pak Carton Ambient S.p.A	2858294-0007	ELD	AA	006

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Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
30W101	BK	30X120:2.4	30B101:	29 .6	
30W102	BN	30X120:3.1	30B102:	29 .4	
30W102	BU	30X120:3.3	30B102:	29 .4	
30W102	BK	30X120:3.4	30B102:	29 .6	
30W120	BN	01X006:116+	30X120:1.1	29 .3	
30W120	BU	01X006:116-	30X120:1.3	29 .3	
30W120	GY/PK				
30W120	RD/BU				
30W120	WH/GN				
30W120	BN/GN	01X006:119	30X120:4.2	29 .7	
30W120	WH/YE	01X006:120	30X120:5.2	29 .7	
30W120	YE/BN	01X006:146	30X120:6.4	35 .3	
30W120	WH/GY	01X006:147	30X120:7.4	35 .3	
30W120	GY/BN	01X006:148	30X120:8.4	35 .3	
30W120	WH	01X006:116	30X120:1.4	29 .7	
30W120	GN	01X006:117	30X120:2.4	29 .7	
30W120	YE	01X006:118	30X120:3.4	29 .7	
30W120	GY				
30W120	PK				
30W120	RD				
30W120	BK				
30W120	VT				
30W120	GNYE				
30W130	BN	01X006:122+	30X130:1.1	29 .3	
30W130	BU	01X006:122-	30X130:1.3	29 .3	
30W130	GY/PK				
30W130	RD/BU	01X006:122	30X130:2.4	30 .7	

Cable	Core	From	To	Page.Col.	Option
30W130	WH/GN	01X006:123	30X130:3.2	30 .7	
30W130	BN/GN	01X006:124	30X130:4.2	30 .7	
30W130	WH/YE				
30W130	YE/BN	01X006:144	30X130:6.2	34 .3	
30W130	WH/GY	01X006:153	30X130:8.4	35 .3	
30W130	GY/BN	01X006:149	30X130:7.4	35 .3	
30W130	WH	01X006:121	30X130:1.4	29 .7	
30W130	GN				
30W130	YE				
30W130	GY				
30W130	PK	01X006:125	30X130:5.4	30 .7	
30W130	RD	01X006:145	30X130:6.4	34 .4	
30W130	BK				
30W130	VT				
30W130	GNYE				
30W400	BN	30T400:1 U	30M400:U A	12 .1	
30W400	BK	30T400:2 V	30M400:V B	12 .1	
30W400	BU	30T400:2 W	30M400: W C	12 .1	
30W400	GNYE	30T400:4 GND	30M400:GND	12 .1	
30W400	SH	PE:	PE:	12 .2	
30W401	BK	30T400:M/F D1	30M400:SIN+ A	12 .1	
30W401	WH/BK	30T400:M/F D2	30M400:SIN- B	12 .1	
30W401	RD	30T400:M/F D3	30M400:COS+ C	12 .1	
30W401	WH/RD	30T400:M/F D4	30M400:COS- D	12 .1	
30W401	GN	30T400:M/F D5	30M400:DATA+ E	12 .1	
30W401	WH/GN	30T400:M/F D10	30M400:DATA- F	12 .1	
30W401	GY	30T400:M/F D14	30M400:K	12 .1	

Drawing remarks

Tetra Pak

Designer	Date	Machine
QUE	26/04/2006	SCREWCAP Platform (FLEX)

ECM No	Denomination	Page Type
276887	CABLE CONNECTION LIST	CABLE CONNECTION LIST

Company	Document No.	Doc. type	Version	Page
Tetra Pak Carton Ambient S.p.A	2858294-0007	ELD	AA	007

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Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
30W401	WH/GY	30T400:M/F D6	30M400:ECOM L	12 .1	
30W401	OG	30T400:M/F D7	30M400:+9VDC N	12 .1	
30W401	WH/OG	30T400:M/F D11	30M400:TS+ R	12 .1	
30W401	BU				
30W401	WT/BU	30T400:M/F D12	30M400:T	12 .1	
30W401	YE	30T400:M/F D13	30M400:NC	12 .1	
30W401	WH/YE	30T400:M/F D8	30M400:NC	12 .1	
30W401	BN	30T400:M/F D9	30M400:NC	12 .1	
30W401	WH/BN	30T400:M/F D15	30M400:NC	12 .1	
30W401	SH	PE:	PE:	12 .5	
40W000	BN	40T000:1 U	40M000:U A	7 .1	
40W000	BK	40T000:2 V	40M000:V B	7 .1	
40W000	BU	40T000:2 W	40M000: W C	7 .1	
40W000	GNYE	40T000:4 GND	40M000:GND	7 .1	
40W000	SH	PE:	PE:	7 .2	
40W001	BK	40T000:M/F D1	40M000:SIN+ A	7 .1	
40W001	WH/BK	40T000:M/F D2	40M000:SIN- B	7 .1	
40W001	RD	40T000:M/F D3	40M000:COS+ C	7 .1	
40W001	WH/RD	40T000:M/F D4	40M000:COS- D	7 .1	
40W001	GN	40T000:M/F D5	40M000:DATA+ E	7 .1	
40W001	WH/GY	40T000:M/F D6	40M000:ECOM L	7 .1	
40W001	OG	40T000:M/F D7	40M000:+9VDC N	7 .1	
40W001	WH/YE	40T000:M/F D8	40M000:NC	7 .1	
40W001	BN	40T000:M/F D9	40M000:NC	7 .1	
40W001	WH/GN	40T000:M/F D10	40M000:DATA- F	7 .1	
40W001	WH/OG	40T000:M/F D11	40M000:TS+ R	7 .1	
40W001	WT/BU	40T000:M/F D12	40M000:T	7 .1	

Cable	Core	From	To	Page.Col.	Option
40W001	YE	40T000:M/F D13	40M000:NC	7 .1	
40W001	GY	40T000:M/F D14	40M000:K	7 .1	
40W001	WH/BN	40T000:M/F D15	40M000:NC	7 .1	
40W001	SH	PE:	PE:	7 .5	
40W002	BN	40T002:1 U	40M002:U A	8 .1	
40W002	BK	40T002:2 V	40M002:V B	8 .1	
40W002	BU	40T002:2 W	40M002: W C	8 .1	
40W002	GNYE	40T002:4 GND	40M002:GND	8 .1	
40W002	SH	PE:	PE:	8 .2	
40W003	BK	40T002:M/F D1	40M002:SIN+ A	8 .1	
40W003	WH/BK	40T002:M/F D2	40M002:SIN- B	8 .1	
40W003	RD	40T002:M/F D3	40M002:COS+ C	8 .1	
40W003	WH/RD	40T002:M/F D4	40M002:COS- D	8 .1	
40W003	GN	40T002:M/F D5	40M002:DATA+ E	8 .1	
40W003	WH/GN	40T002:M/F D10	40M002:DATA- F	8 .1	
40W003	GY	40T002:M/F D14	40M002:K	8 .1	
40W003	WH/GY	40T002:M/F D6	40M002:ECOM L	8 .1	
40W003	OG	40T002:M/F D7	40M002:+9VDC N	8 .1	
40W003	WH/OG	40T002:M/F D11	40M002:TS+ R	8 .1	
40W003	BU				
40W003	WT/BU	40T002:M/F D12	40M002:T	8 .1	
40W003	YE	40T002:M/F D13	40M002:NC	8 .1	
40W003	WH/YE	40T002:M/F D8	40M002:NC	8 .1	
40W003	BN	40T002:M/F D9	40M002:NC	8 .1	
40W003	WH/BN	40T002:M/F D15	40M002:NC	8 .1	
40W003	SH	PE:	PE:	8 .5	
40W010	BN	30X130:3.3	40B010:	30 .4	

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination CABLE CONNECTION LIST	Page Type CABLE CONNECTION LIST	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0007	Doc. type ELD	Version AA	Page 008

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Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
40W010	BN	30X130:3.1	40B010:	30 .4	
40W010	BK	30X130:3.2	40B010:	30 .6	
40W011	BN	30X130:4.3	40B011:	30 .4	
40W011	BN	30X130:4.1	40B011:	30 .4	
40W011	BK	30X130:4.2	40B011:	30 .6	
40W012	BN	30X120:4.3	40B012:	29 .4	
40W012	BN	30X120:4.1	40B012:	29 .4	
40W012	BK	30X120:4.2	40B012:	29 .6	
40W013	BN	30X120:5.3	40B013:	29 .4	
40W013	BN	30X120:5.1	40B013:	29 .4	
40W013	BK	30X120:5.2	40B013:	29 .6	
40W100	1	30X120:6.4	40X100:1	35 .4	
40W100	2	30X120:6.3	40X100:2	35 .6	
40W101	1	30X120:7.4	40X101:1	35 .4	
40W101	2	30X120:7.3	40X101:2	35 .6	
40W200	BN	30X130:2.3	40B200:	30 .4	
40W200	BN	30X130:2.1	40B200:	30 .4	
40W200	BK	30X130:2.4	40B200:	30 .6	
40W202	BN	30X130:1.1	40B202:BN	29 .5	
40W202	BU	30X130:1.3	40B202:BU	29 .5	
40W202	BK	30X130:1.4	40B202:BK	29 .6	
40W210	BN	30X130:6.2	40K210:1	34 .4	
40W210	BU	30X130:6.3	40K210:2	34 .6	
40W210	BK	30X130:6.4	40K211:1	34 .4	
40W300	BN	40T300:1 U	40M300:U A	11 .1	
40W300	BK	40T300:2 V	40M300:V B	11 .1	
40W300	BU	40T300:2 W	40M300: W C	11 .1	

Cable	Core	From	To	Page.Col.	Option
40W300	GNYE	40T300:4 GND	40M300:GND	11 .1	
40W300	SH	PE:	PE:	11 .2	
40W301	BK	40T300:M/F D1	40M300:SIN+ A	11 .1	
40W301	WH/BK	40T300:M/F D2	40M300:SIN- B	11 .1	
40W301	RD	40T300:M/F D3	40M300:COS+ C	11 .1	
40W301	WH/RD	40T300:M/F D4	40M300:COS- D	11 .1	
40W301	GN	40T300:M/F D5	40M300:DATA+ E	11 .1	
40W301	WH/GN	40T300:M/F D10	40M300:DATA- F	11 .1	
40W301	GY	40T300:M/F D14	40M300:K	11 .1	
40W301	WH/GY	40T300:M/F D6	40M300:ECOM L	11 .1	
40W301	OG	40T300:M/F D7	40M300:+9VDC N	11 .1	
40W301	WH/OG	40T300:M/F D11	40M300:TS+ R	11 .1	
40W301	BU				
40W301	WT/BU	40T300:M/F D12	40M300:T	11 .1	
40W301	YE	40T300:M/F D13	40M300:NC	11 .1	
40W301	WH/YE	40T300:M/F D8	40M300:NC	11 .1	
40W301	BN	40T300:M/F D9	40M300:NC	11 .1	
40W301	WH/BN	40T300:M/F D15	40M300:NC	11 .1	
40W301	SH	PE:	PE:	11 .5	
40W400	1	40X400:1	40M400:U	15 .4	
40W400	2	40X400:2	40M400:V	15 .4	
40W400	3	40X400:3	40M400:W	15 .4	
40W400	GNYE	40X400:⏚	40M400:⏚	15 .4	
40W410	1	01X004:23	40X400:1	15 .4	
40W410	2	01X004:24	40X400:2	15 .4	
40W410	3	01X004:25	40X400:3	15 .4	
40W410	GNYE	01X004:26	40X400:⏚	15 .4	

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination CABLE CONNECTION LIST	Page Type CABLE CONNECTION LIST	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0007	Doc. type ELD	Version AA	Page 009

This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.

Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
40W500	BN	40X502:1	40B500:	51 .5	
40W500	BU	40X502:3	40B500:	51 .5	
40W501	BN	40X502:1	40B501:	51 .5	
40W501	BU	40X502:3	40B501:	51 .5	
40W501	BK	40X502:4	40B501:	51 .5	
40W502	BN	40X502:1	01K340:0.1	51 .6	
40W502	BK	40X502:4	01K340:0.4	51 .6	
40W502	BU	40X502:3	01K340:0.3	51 .6	
40W504	BN	40X506:1	40B504:	51 .5	
40W504	BU	40X506:3	40B504:	51 .5	
40W505	BN	40X506:1	40B505:	51 .5	
40W505	BU	40X506:3	40B505:	51 .5	
40W505	BK	40X506:4	40B505:	51 .5	
40W506	BN	40X506:1	01K340:1.1	51 .6	
40W506	BU	40X506:3	01K340:1.3	51 .6	
40W506	BK	40X506:4	01K340:1.4	51 .6	
50W000	1	50X000:1	50M000:U	15 .6	
50W000	2	50X000:2	50M000:V	15 .6	
50W000	3	50X000:3	50M000:W	15 .6	
50W000	GNYE	50X000:⏚	50M000:⏚	15 .6	
50W004	1	01X006:152	50X001:1	51 .10	
50W004	2	01X006:157	50X001:2	51 .10	
50W004	3	01X006:166	50X001:3	36 .4	
50W004	4	01X006:162	50X001:4	36 .7	
50W004	GNYE	01X006:⏚	50X001:⏚	51 .10	
50W010	1	01X004:27	50X000:1	15 .6	
50W010	2	01X004:28	50X000:2	15 .6	
50W010	3	01X004:29	50X000:3	15 .6	
50W010	GNYE	01X004:30	50X000:⏚	15 .6	
50W012	BN	50X012:1	01K340:2.1	51 .6	
50W012	BK	50X012:4	01K340:2.4	51 .6	
50W012	BU	50X012:3	01K340:2.3	51 .6	
50W013	BN	50X012:1	50B013:	51 .5	
50W013	BU	50X012:3	50B013:	51 .5	
50W014	BN	50X012:1	50B014:	51 .5	
50W014	BU	50X012:3	50B014:	51 .5	
50W014	BK	50X012:4	50B014:	51 .5	
50W100	1	50X110:1	50M100:U	17 .4	
50W100	2	50X110:2	50M100:V	17 .4	
50W100	3	50X110:3	50M100:W	17 .4	
50W100	GNYE	50X110:⏚	50M100:⏚	17 .5	
50W100	SH	50X110:4	PE:	17 .5	
50W101	BN	50B101:	01K340:5.1	51 .6	
50W101	BU	50B101:	01K340:5.3	51 .6	
50W101	BK	50B101:	01K340:5.4	51 .6	
50W102	BN	50B102:	01K340:6.1	51 .6	
50W102	BU	50B102:	01K340:6.3	51 .6	
50W102	BK	50B102:	01K340:6.4	51 .6	
50W104	BK	50X001:3	50X104:	36 .5	
50W104	BU	50X001:4	50X104:	36 .7	
50W105	BN	50B105:	01K340:4.1	51 .6	
50W105	BU	50B105:	01K340:4.3	51 .6	
50W105	BK	50B105:	01K340:4.4	51 .6	
50W110	1	50X110:1	50Q100:2	17 .4	

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination CABLE CONNECTION LIST	Page Type CABLE CONNECTION LIST	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0007	Doc. type ELD	Version AA	Page 010

This drawing must not without the consent of Tetra Pak
be copied, transmitted or disclosed to any third party.

Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
50W110	2	50X110:2	50Q100:4	17 .4	
50W110	3	50X110:3	50Q100:6	17 .4	
50W110	GNYE	50X110:⏚	50X101:1	17 .5	
50W110	SH	50X110:4	PE:	17 .5	
50W200	BN	50B200:	01K340:7.1	51 .6	
50W200	BU	50B200:	01K340:7.3	51 .6	
50W200	BK	50B200:	01K340:7.4	51 .6	
70W000	OG				V.S.D.
70W000	BU	01X006:173	70B000:4	52 .8	V.S.D.
70W000	GN	01X006:171	70B000:2	52 .8	V.S.D.
70W000	BN	01X006:177	70B000:8	52 .8	V.S.D.
70W000	WH/OG	01X006:172	70B000:3	52 .8	V.S.D.
70W000	WH/GN	01X006:170	70B000:1	52 .8	V.S.D.
70W000	WH/BU				V.S.D.
70W000	WH/BN				V.S.D.
70W001	1	70X001:2	70X001:1	52 .8	V.S.D.
70W002	BN	01X006:178	70E002:+	52 .4	V.S.D.
70W002	L.BU	01X006:179	70E002:-	52 .4	V.S.D.
70W002	GNYE				V.S.D.
70W003	BN	01X006:181	70B003:	52 .2	
70W003	BU	01X006:180	70B003:	52 .2	
70W003	BK	01X006:182	70B003:	52 .2	
70W100	BN	70T100:1 U	70M100:U A	13 .1	POS.SYS.
70W100	BK	70T100:2 V	70M100:V B	13 .1	POS.SYS.
70W100	BU	70T100:2 W	70M100: W C	13 .1	POS.SYS.
70W100	GNYE	70T100:4 GND	70M100:GND	13 .1	POS.SYS.
70W100	SH	PE:	PE:	13 .2	POS.SYS.

Cable	Core	From	To	Page.Col.	Option
70W101	BK	70T100:M/F D1	70M100:SIN+ A	13 .1	POS.SYS.
70W101	WH/BK	70T100:M/F D2	70M100:SIN- B	13 .1	POS.SYS.
70W101	RD	70T100:M/F D3	70M100:COS+ C	13 .1	POS.SYS.
70W101	WH/RD	70T100:M/F D4	70M100:COS- D	13 .1	POS.SYS.
70W101	GN	70T100:M/F D5	70M100:DATA+ E	13 .1	POS.SYS.
70W101	WH/GN	70T100:M/F D10	70M100:DATA- F	13 .1	POS.SYS.
70W101	GY	70T100:M/F D14	70M100:K	13 .1	POS.SYS.
70W101	WH/GY	70T100:M/F D6	70M100:ECOM L	13 .1	POS.SYS.
70W101	OG	70T100:M/F D7	70M100:+9VDC N	13 .1	POS.SYS.
70W101	WH/OG	70T100:M/F D11	70M100:TS+ R	13 .1	POS.SYS.
70W101	BU				POS.SYS.
70W101	WT/BU	70T100:M/F D12	70M100:T	13 .1	POS.SYS.
70W101	YE	70T100:M/F D13	70M100:NC	13 .1	POS.SYS.
70W101	WH/YE	70T100:M/F D8	70M100:NC	13 .1	POS.SYS.
70W101	BN	70T100:M/F D9	70M100:NC	13 .1	POS.SYS.
70W101	WH/BN	70T100:M/F D15	70M100:NC	13 .1	POS.SYS.
70W101	SH	PE:	PE:	13 .5	POS.SYS.
81W200	1	81X200:2	81X200:1	18 .3	
81W201	1	81X201:2	81X201:1	21 .3	
81W203	1	81X203:1	81X203:2	21 .8	
81W400	RD	81X401:RD	81T400:V+	19 .9	
81W400	BK	81X401:BK	81T400:V-	19 .9	
81W400	SH	81X401:SH	81T400:V-	19 .9	
81W401	RD	81X401:RD	01K304:V+	19 .2	
81W401	WH	81X401:WH	01K304:CAN-H	19 .2	
81W401	BK	81X401:BK	01K304:V-	19 .2	
81W401	BU	81X401:BU	01K304:CAN-L	19 .2	

Drawing remarks

Tetra Pak

Designer	Date	Machine
QUE	26/04/2006	SCREWCAP Platform (FLEX)

ECM No	Denomination	Page Type
276887	CABLE CONNECTION LIST	CABLE CONNECTION LIST

Company	Document No.	Doc. type	Version	Page
Tetra Pak Carton Ambient S.p.A	2858294-0007	ELD	AA	011

This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.

Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
81W401	SH	81X401:SH	01K304:SHIELD	19 .2	
81W402	RD	81X402:RD	20T000:V+	19 .2	
81W402	WH	81X402:WH	20T000:CAN-H	19 .2	
81W402	BK	81X402:BK	20T000:V-	19 .2	
81W402	BU	81X402:BU	20T000:CAN-L	19 .2	
81W402	SH	81X402:SH	20T000:SH	19 .2	
81W403	RD	81X403:RD	01K320:+V	19 .6	
81W403	WH	81X403:WH	01K320:CAN-H	19 .6	
81W403	BK	81X403:BK	01K320:-V	19 .6	
81W403	BU	81X403:BU	01K320:CAN-L	19 .6	
81W403	SH	81X403:SH	01K320:SHIELD	19 .6	
81W405	RD	81X402:RD	81X401:RD	19 .7	
81W405	WH	81X402:WH	81X401:WH	19 .7	
81W405	BK	81X402:BK	81X401:BK	19 .7	
81W405	BU	81X402:BU	81X401:BU	19 .7	
81W405	SH	81X402:SH	81X401:SH	19 .7	
81W406	RD	81X403:RD	81X402:RD	19 .5	
81W406	WH	81X403:WH	81X402:WH	19 .5	
81W406	BK	81X403:BK	81X402:BK	19 .5	
81W406	BU	81X403:BU	81X402:BU	19 .5	
81W406	SH	81X403:SH	81X402:SH	19 .5	
81W407	RD	81X404:RD	81X403:RD	19 .2	
81W407	WH	81X404:WH	81X403:WH	19 .2	
81W407	BK	81X404:BK	81X403:BK	19 .2	
81W407	BU	81X404:BU	81X403:BU	19 .2	
81W407	SH	81X404:SH	81X403:SH	19 .2	
81W420	BN	01X006:156	81K420:1	50 .9	

Cable	Core	From	To	Page.Col.	Option
81W420	BU	01X006:151	81K420:3	50 .9	
81W420	WH	01X006:156	81K420:2	50 .9	
81W420	BK	01X006:151	81K420:4	50 .9	
81W421	RD	81K420:2	01K340:2	50 .6	
81W421	WH	81K420:4	01K340:4	50 .6	
81W421	BK	81K420:3	01K340:3	50 .6	
81W421	BU	81K420:5	01K340:5	50 .6	
81W421	SH	81K420:1	01K340:1	50 .6	
81W422	RD	01K320:+V	81K420:2	37 .6	
81W422	WH	01K320:CAN-H	81K420:4	37 .6	
81W422	BK	01K320:-V	81K420:3	37 .6	
81W422	BU	01K320:CAN-L	81K420:5	37 .6	
81W422	SH	01K320:SHIELD	81K420:1	37 .6	
81W500	1	01X201:1	81K500:RJ12	18 .9	COM.UNIT
81W501	GN	81K500:4		.9	COM.UNIT
81W501	BN	81K500:1		.9	COM.UNIT
81W501	YE	81K500:3		.9	COM.UNIT
81W501	WH	81K500:2		.9	COM.UNIT
81W501	SH	81K500:5		.9	COM.UNIT
81W700	WH	81X701:5	81X700:5	16 .2	
81W700	BN	81X701:4	81X700:4	16 .2	
81W700	SH	81W700:	20T000:19	16 .2	
81W701	WH	81X701:5	81X702:5	16 .2	
81W701	BN	81X701:4	81X702:4	16 .2	
81W701	SH	81W701:	21T400:16	16 .7	
81W702	WH	81X702:5	81X703:4	17 .6	
81W702	BN	81X702:4	81X703:5	17 .7	

Drawing remarks

Tetra Pak

Designer	Date	Machine
QUE	26/04/2006	SCREWCAP Platform (FLEX)

ECM No	Denomination	Page Type
276887	CABLE CONNECTION LIST	CABLE CONNECTION LIST

Company	Document No.	Doc. type	Version	Page
Tetra Pak Carton Ambient S.p.A	2858294-0007	ELD	AA	012

This drawing must not without the consent of Tetra Pak
be copied, transmitted or disclosed to any third party.

Cable Connection List of 2858294-0003

Cable	Core	From	To	Page.Col.	Option
81W702	SH	81W702:	50T100:16	17 .1	

Cable	Core	From	To	Page.Col.	Option

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)	
ECM No 276887	Denomination CABLE CONNECTION LIST	Page Type CABLE CONNECTION LIST	
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0007	Doc. type ELD	Version AA	Page 013

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9 Mains Connection

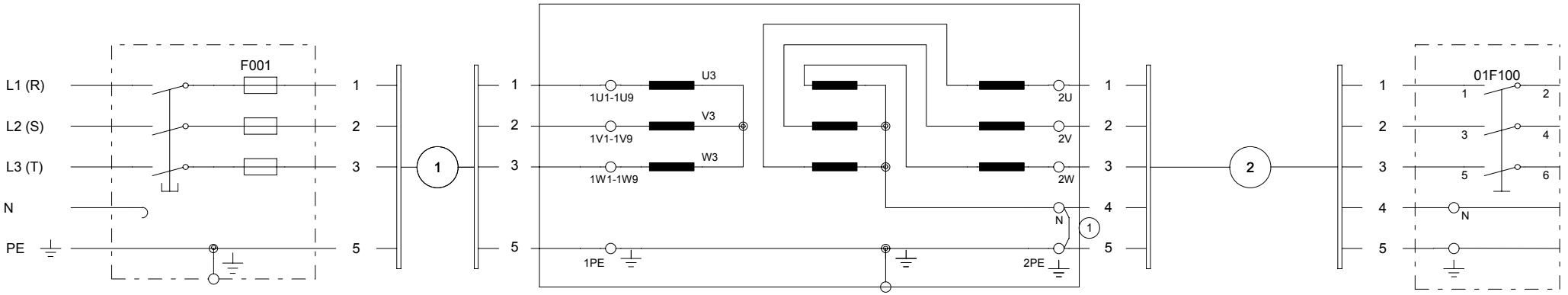
Description

The drawings that show the connection from the mains power to the electrical cabinet are included in this chapter.

RELEASED

This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.

MAIN VOLTAGE 200-600V EXCEPT 400/230V



MAINS

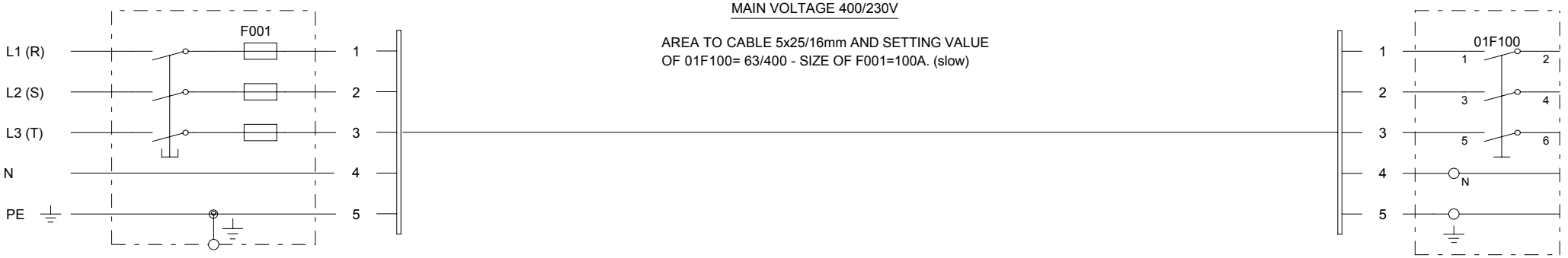
CUSTOMER'S FUSE BOX

MATCHING TRANSFORMER CONNECTION
ACCORDING TO DIAGRAM XXXXXXX-0007:002

FILLING MACHINE CONNECTION
ACCORDING TO DIAGRAM "MAINS"

MAIN VOLTAGE 400/230V

AREA TO CABLE 5x25/16mm AND SETTING VALUE
OF 01F100= 63/400 - SIZE OF F001=100A. (slow)



MAINS

CUSTOMER'S FUSE BOX

ATTENTION: THIS IS A RECOMMANDATION TO ACHIEVE SELECTIVITY;
THE DIMENSIONING OF THE MAIN CABLE AND PROTECTIVE GROUNDING
HAS TO BE CARRIED OUT ACCORDING TO CURRENT LOCAL REGULATIONS.

FILLING MACHINE CONNECTION
ACCORDING TO DIAGRAM "MAINS"

Drawing remarks

Tetra Pak

Designer QUE	Date 26/04/2006	Machine SCREWCAP Platform (FLEX)		
ECM No 276887	Denomination MAINS CONNECTION	Page Type MAINS CONNECTION		
Company Tetra Pak Carton Ambient S.p.A	Document No. 2858294-0008	Doc. type ELD	Version AA	Page 001

RELEASED

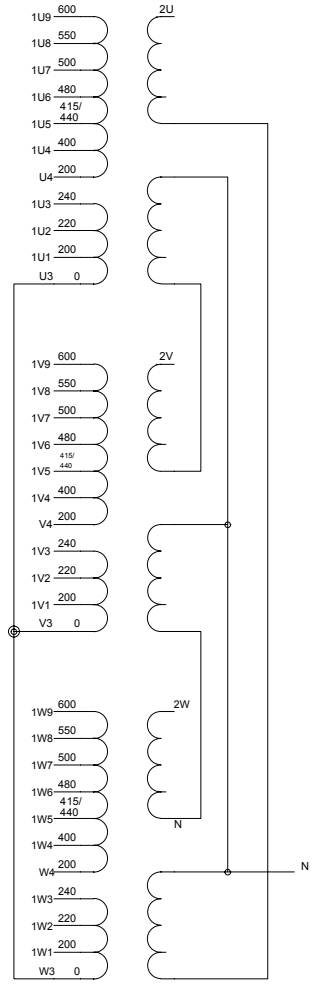
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1	2	3	4	5	6	7	8	9	10

MAIN VOLTAGE	FUSES (SLOW) ① F001	AREA TO CU CABLES NO. 1	AREA TO CU CABLES NO. 2	SETTING VALUE 01F100	CONNECTIONS ON MATCHING TRANSFORMER			
V	A	mm²	mm²	A	MAINS	TAP	CONNECT	
600/347 3x600	100	3x16/16	4x25/16	63/400	PHASE L1 PHASE L2 PHASE L3 N N GROUND PE	1U9 1V9 1W9 N ⏚	1U3 - U4 1V3 - V4 1W3 - W4	
550/318 3x550	100	3x16/16	4x25/16	63/400	PHASE L1 PHASE L2 PHASE L3 N N GROUND PE	1U8 1V8 1W8 N ⏚	1U3 - U4 1V3 - V4 1W3 - W4	
500/289 3x500	125	3x25/16	4x25/16	63/400	PHASE L1 PHASE L2 PHASE L3 N N GROUND PE	1U7 1V7 1W7 N ⏚	1U3 - U4 1V3 - V4 1W3 - W4	
480/277 3x480	125	3x25/16	4x25/16	63/400	PHASE L1 PHASE L2 PHASE L3 N N GROUND PE	1U6 1V6 1W6 N ⏚	1U3 - U4 1V3 - V4 1W3 - W4	
440/254 3x440	125	3x25/16	4x25/16	63/400	PHASE L1 PHASE L2 PHASE L3 N N GROUND PE	1U5 1V5 1W5 N ⏚	1U2 - U4 1V2 - V4 1W2 - W4	
415/240 3x415	125	3x25/16	4x25/16	63/400	PHASE L1 PHASE L2 PHASE L3 N N GROUND PE	1U5 1V5 1W5 N ⏚	1U1 - U4 1V1 - V4 1W1 - W4	
3x400 [3×380]	160	3x25/16	4x25/16	63/400	PHASE L1 PHASE L2 PHASE L3 N N GROUND PE	1U4 1V4 1W4 N ⏚	1U1 - U4 1V1 - V4 1W1 - W4	
240/140 3x240	250	3x70/35	4x25/16	63/400	PHASE L1 PHASE L2 PHASE L3 N N GROUND PE	1U3 1V3 1W3 N ⏚	U3 - U4 V3 - V4 W3 - W4	1U3-1U6 1V3-1V6 1W3-1W6
220/127 3x220	250	3x70/35	4x25/16	63/400	PHASE L1 PHASE L2 PHASE L3 N N GROUND PE	1U2 1V2 1W2 N ⏚	U3 - U4 V3 - V4 W3 - W4	1U2-1U5 1V2-1V5 1W2-1W5
200/115 3x200	315	3x95/50	4x25/16	63/400	PHASE L1 PHASE L2 PHASE L3 N N GROUND PE	1U1 1V1 1W1 N ⏚	U3 - U4 V3 - V4 W3 - W4	1U1-1U4 1V1-1V4 1W1-1W4

MATCHING TRANSFORMER
90245-0024

Y/Z II-WIRED



Drawing remarks

Tetra Pak

Designer	Date	Machine
QUE	26/04/2006	SCREWCAP Platform (FLEX)

ECM No	Denomination	Page Type
276887	MAINS CONNECTION	MAINS CONNECTION

Company	Document No.	Doc. type	Version	Page
Tetra Pak Carton Ambient S.p.A	2858294-0008	ELD	AA	002

10 Drawing Remarks

Description

The following pages contain the drawing remarks that are referenced in chapter 4 Circuit Diagrams.

Drawing No.	Note	Remark
2858294-0003	1	Connected to the driver.
	2	Connected to shield clamp.
	3	Connected to cable gland.
2858294-0008		CAUTION THE PROTECTIVE EARTH CONNECTION MUST BE DONE ACCORDING TO THE LOCAL RULES
2858294-0008		MAKE THE BRIDGE USING A CONNECTION AREA NOT SMALLER THEN 16mm
2858294-0008		RECOMMENDED MAIN FUSE TO ACHIEVE SELECTIVITY

This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.

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11 Engineering Change Description

Description

This chapter describes the changes introduced by the ECM.

ECM No.	Drawing No.	Alteration
276887		DOCUMENTATION INTRODUCED.

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12 Component Location

Description

For component location, refer to the Electrical Parts Index in the SPC.

13 Other Information

Description

This chapter gives other information, when applicable; such as, a Bill of Materials, fuse panel label etc.

13.1 Bills of Material . . . . . 13 - 5

13.2 Fuse Panel Label . . . . . 13 - 7

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13.1 Bills of Material

This chapter includes the lists of the documents and programs.

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ECM P277012(L277009)
Release date 2006.09.25

Variant: Column Global dependency
ZA CAP 30/FLEX
ZB CAP 30/SPEED

Chg	Position	Sp	SH	Description	As	Size	Identity	DTp	Prt	Vs	Unit	Column quantity All	ZA	ZB	ECM
I	0010			ELECTRICAL DOCUMENT	X		2861169-0100				PC		1	-	277012
I	0020			ELECTRICAL DOCUMENT	X		2861170-0100				PC		-	1	277012

ECM P277013(L277009)
Release date 2006.09.25

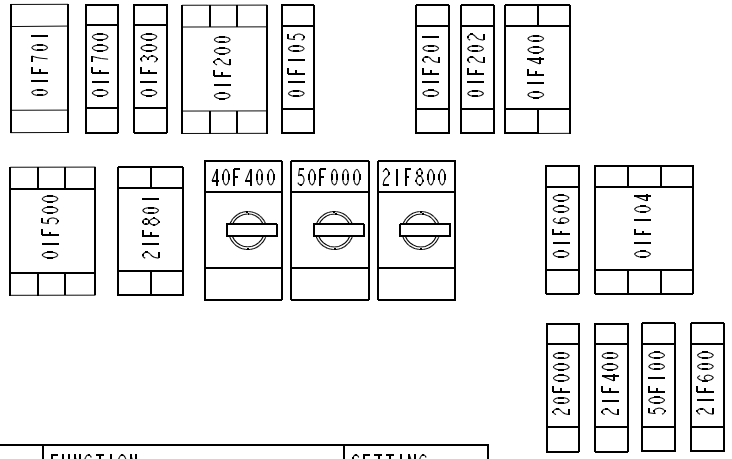
Chg	Position	Sp	SH	Description	As	Size	Identity	DTp	Prt	Vs	Unit	Column quantity All	ECM
I	0010			DOCUMENTS LIST			2858294-0001	ELD	000	AA		x	277013
I	0020			POSITION SUMMARY			2858294-0002	ELD	000	AA		x	277013
I	0030			CIRCUIT DIAGRAM			2858294-0003	ELD	000	AA		x	277013
I	0040			LINE SUMMARY			2858294-0004	ELD	000	AA		x	277013
I	0050			CABINET TERMINAL SUMMARY			2858294-0005	ELD	000	AA		x	277013
I	0060			TERMINAL STRIP OVERVIEW			2858294-0006	ELD	000	AA		x	277013
I	0070			CABLE CONNECTION LIST			2858294-0007	ELD	000	AA		x	277013
I	0080			MAINS CONNECTION			2858294-0008	ELD	000	AA		x	277013
I	0098			DRAWING REMARKS			2858294-0098	ELD	000	AA		x	277013
I	0099			ENGINEERING CHANGE DESCRIPTION			2858294-0099	ELD	000	AA		x	277013

13.2 Fuse Panel Label

This chapter shows the location and the setting of the fuses.

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2861863 AA



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POS	FUNCTION	SETTING
40F400	CAP CONVEYOR	0.6 A
50F000	CAP ELEVATOR	0.6 A
21F800	AIR PUMP	2.5 A

POS	FUNCTION		FUSE TYPE
01F701	WALL SOCKET		FI-25/2/003-A
01F700	MACHINE AND CABINET LIGHTING	10A	FAZ -C10/1
01F300	PLC AND DEVICE NET POWER SUPPLY	4A	FAZ -C4/1
01F200	POWER SUPPLY 24 VCC	6A	FAZ -C6/3
01F105	ELECTRONIC POWER SERVO SYSTEM	6A	FUSE ADTR 6
01F201	24 VCC INPUT	4A	FAZ -C4/1
01F202	24 VCC OUTPUT	6A	FAZ -C6/1
01F400	24 VCC OPERATOR PANEL	4A	FAZ -C4/2
01F500	HOT MELT UNIT	20A	FAZ -C20/3
21F801	PACKAGE PREHEATER	10A	FAZ -C10/2
01F600	COOLING UNIT	6A	FAZ -C6/1
01F104	MAIN POWER SERVO SYSTEM	25A	FAZ -C25/3
20F000	PACKAGE BELT BRAKE	6A	FAZ -C6/1
21F400	PACKEGE LINE CONVEYOR	10A	FAZ -C10/1
50F100	CAP SORTER DISC	6A	FAZ -C6/1
21F600	OUTFEED PACKAGE CONVEYOR	10A	FAZ -C10/1

CAP 30 FLEX

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PLASTIC EMBEDDED
SHINY SURFACE

Release Level: released		ECN No: 268557	Pro/INTRALINK Revision: Drawing 1.1 Model 1.0
Marked according to standard B 2103.10		Unless otherwise stated: SHARP EDGES BROKEN	Surface Roughness
Method/Size: NO/-		Scale: 1:1	
Material: ---		Surface Treatment: ---	
Designer: MVI	Date: 2006-09-18	Denomination: FUSE PANEL LABEL ---	
Company: Tetra Pak Carton Ambient SpA			
Tetra Pak	Drawing No: 2861863	Document Type: DRA	Version: AA
			Page: 1(1)

This drawing must not without the consent of Tetra Pak be copied, transmitted or disclosed to any third party.

Pro/ENGINEER - A3

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14 Program Documents

Description

The program document used for this machine is contained on a CDROM. For installation instructions, see the MM.

14.1 CDROM Contents. . . . . 14 - 5

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14.1 CDROM Contents

The CDROM contains the machine programs. The content of the CDROM is as follows:

- PLC program (Rockwell)
- Safety PLC program (Jokab)
- Networks configuration (Device-Net, Rockwell)
- Operator Panel program (Rockwell)
- PLC program for Genius (GE Fanuc) (CAP 30/Speed only).

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Tetra Pak

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CAP 30/Flex
662950-0100
Issue 2006-11 Doc. No. EM-2852921-0101

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CAP 30/Flex
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