

(Original) Use and maintenance manual

Type: Longitudinal slitter 2200mm
Model: LMM-200



IMPORTANT

Read this user manual and follow the instructions and warnings before operating this device.

Any modification or transformation performed on this machine may cause loss of the manufacturer's guarantee and liability.

This manual must always remain near to the machine and visible to all the operating and maintenance staff, for any future consultation, forming part of the equipment.

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- **CE Declaration of conformity:**

WE DECLARE, under our responsibility, that the machine:

- Type: Slitter
- Brand: ERM Engineering
- Model: LMM-200
- Serial No.: xxxxxx
- Manufacturer date: 2021

Inspired by the directives of the Official Journal of the European Communities:

2006/42/CE Machinery Directive

2014/35/UE Low Voltage Directive

2014/30/UE Electromagnetic Compatibility Directive

Complies with the design and construction specifications of the European Standards on General Machine Safety:

EN 349 - EN 614-1 - EN 614-2 - EN 12100 - EN 11161-1 - EN 1005-1 - EN 1005-2 - EN 1005-3 - EN 1005-4 - EN 13849-1 - EN 13849-2 - EN 894-3 - EN 13857 - EN 60204-1 - EN 14118 - EN 14120

General Manager: Eduardo Ramos Martínez



ermengineering
belting fabrication equipment

Arenys de Munt (Barcelona)-SPAIN

Date: 2021/08

- **Installation and start-up:**

1. Placement and levelling

Place the machine in the space assigned according to the measurements on the drawing, taking the manoeuvring space for the fork-lift truck within the slab loading and unloading red striped zones into account, according to its measurements.



Drill the ground through the leg holes using a 14mm bit and insert the metal fixing plugs provided by the manufacturer.

Before proceeding to tighten the bolts in the plugs, use a level to check that the frame is perfectly level on the 2 plane axes. If that is not the case, place the necessary packing under the legs on the ground to correct possible irregularities in it.

2. Electrical connections

Connect the electric supply cable of the CONTROL BOX to the 3 x 400-volt grid and the relevant earth socket.

NOTE: We recommend running this power cord through a protected conduit, so it is not an obstacle that may cause tripping or falling.

Once the power supply is connected, check the turning direction of the sandwich motor roller to perform this check.

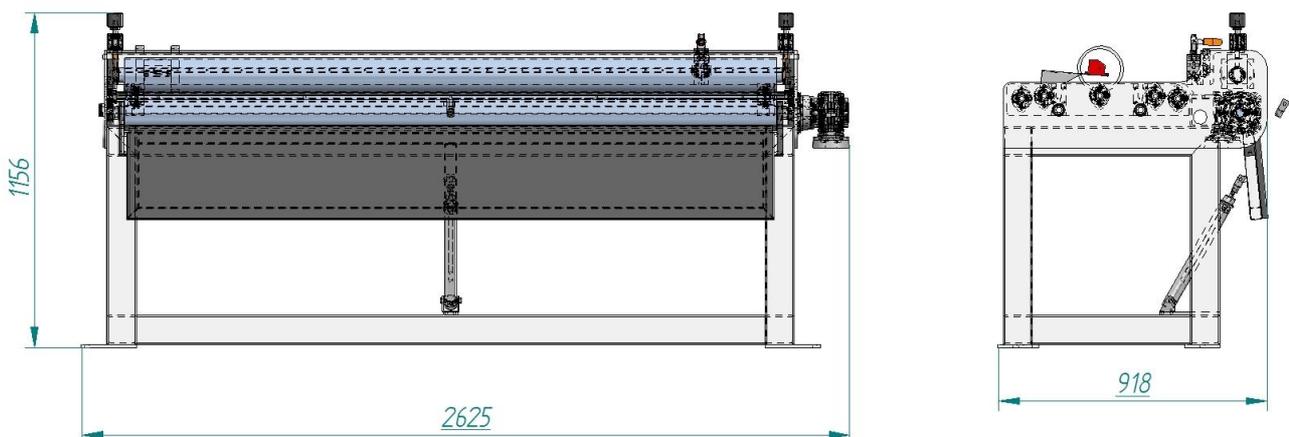
If it does turn in correct direction, the phases must be changed over and the unit be checked again.

3. Air supply connection

Supply the machine with compressed air at a pressure between 4 and 6 bar, connecting the 6 mm diameter blue hose to the grid.

- **Technical characteristics:**

Weight	467 Kg
Measurements (length x width x height)	2625x918x1156 mm.
Voltage	3 x 230V
Power	0.75 kW
Minimum air pressure	4 bar.
Max. belt width	2200 mm.
Max. belt thickness	10 mm.
Max. cutting speed	20 Mt / min.



- **Warnings and safety:**

- ERM Engineering recommends the users of this machine to fully read this user's manual prior to its use to guarantee safe work.
- It also advises and recommends equipment not being used by unqualified staff who has not received prior training from ERM Engineering.
- A copy of this manual delivered along with the machine must always remain at hand during its use, both for the production operators as well as the maintenance managers.

NOTE: ERM Engineering shall not be held liable under any case for damage caused by undue or improper use of this equipment.

- Any repairs or modification of the machine performed by personnel not qualified by ERM Engineering or use of non-original spare parts provided by persons unrelated to the company, shall give rise to loss of the manufacturer's guarantee.
- During use of the machinery and industrial use, people are subject to the risk of damage or injury by mechanical elements in linear or gyrating movement, high voltage electric components and static components under high temperature, due to which, during design and construction of its equipment, ERM Engineering has aimed to reduce and minimise those risks by including protection devices and safety systems based on the European Community Council Directives.

- **Operation:**

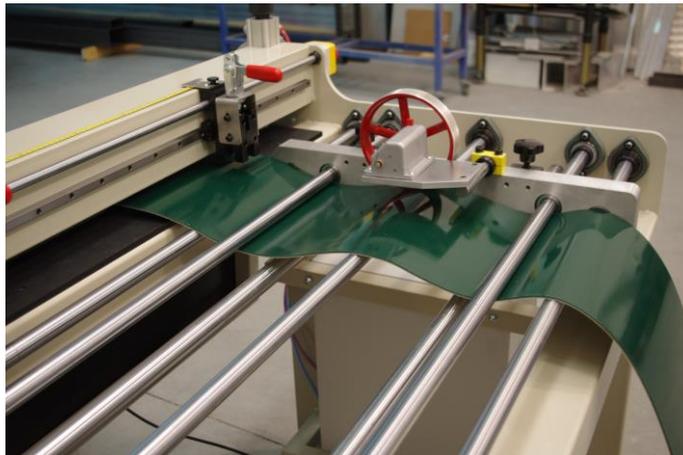
Turn on the machine with red switch and reset the electrical functions with blue button.
(Check that two STOP EMERGENCY are unhook)



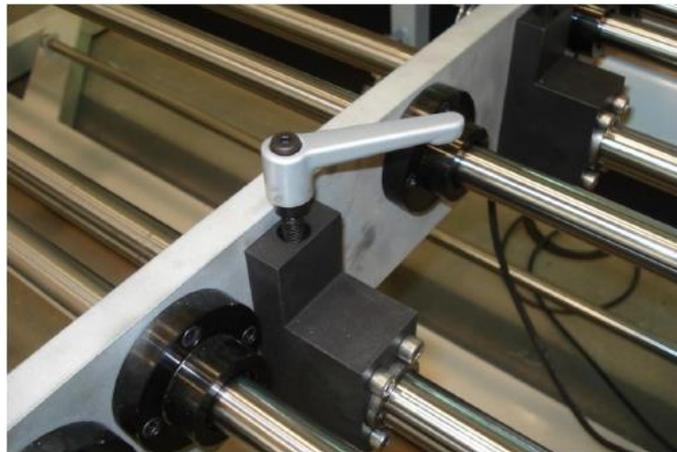
Open the rollers with pneumatic valve ROLLERS



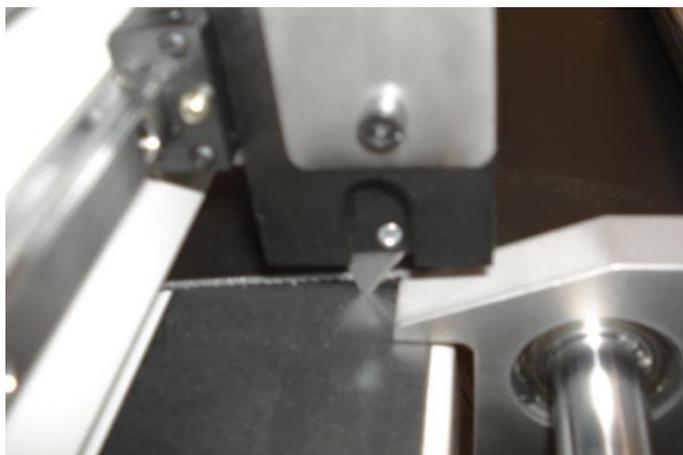
Place the end of the belt between the passage rollers, just as shown in the photo.

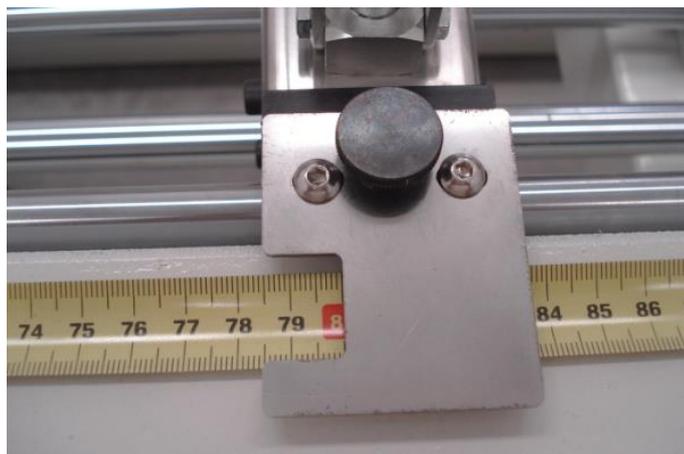


If necessary, open and adjust the guides loosen the guides handle



Adjust the blades to the required measurement, taking the first blade as 0 reference, placing it just tangential to the left side of the belt.





Set the measuring device to zero by pressing the red button.

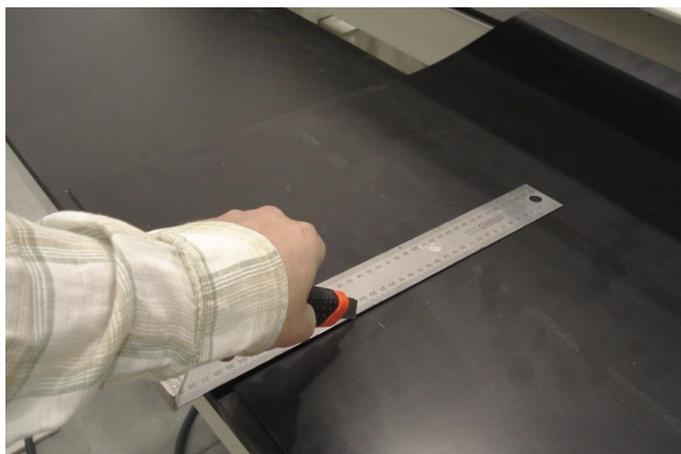
When the end of the belt is between the traction rollers and well centred by the adjusted guides, we close the top pressure roller the pneumatic valve for top roll.



Move the belt forward about 300 mm using the electric pedal.

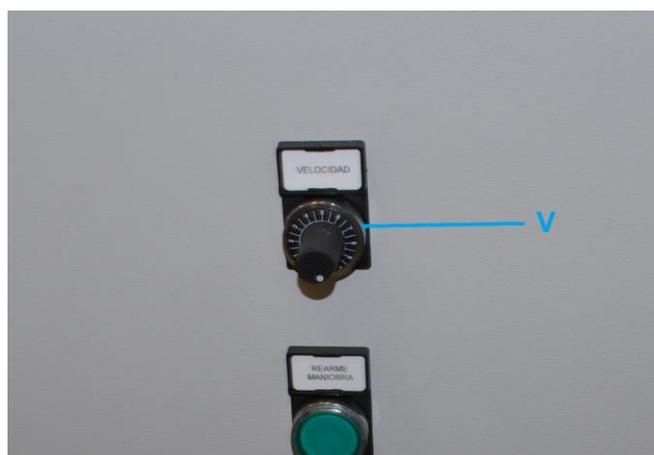
Proceed to manually cut the first uncut centimetres and lower the folding bench.





After this manual cut operation, down the table and cut the belt using feet pedal until necessary measure.

You can adjust the speed using the control box potentiometer.

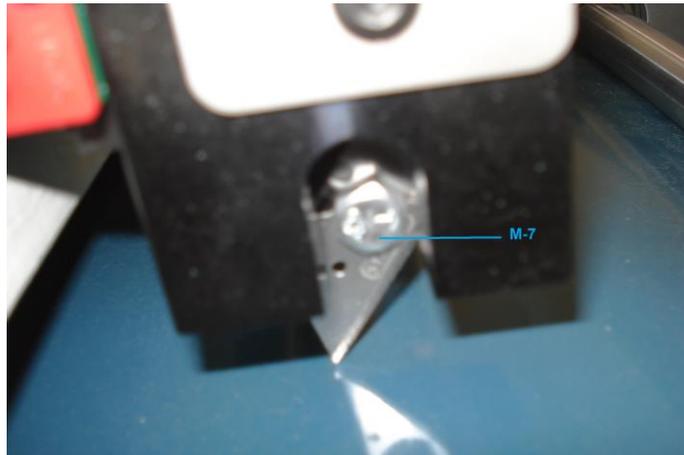


- **Maintenance and care**

Always keep the belt passage bars clean. Use alcohol or methanol to clean them.

Do not use too long pins or staples to fix the belt ends to the cardboard mandrel. These may cause scratching or pitting of the aluminium body of the shafts, that may occasionally cause severe injuries.

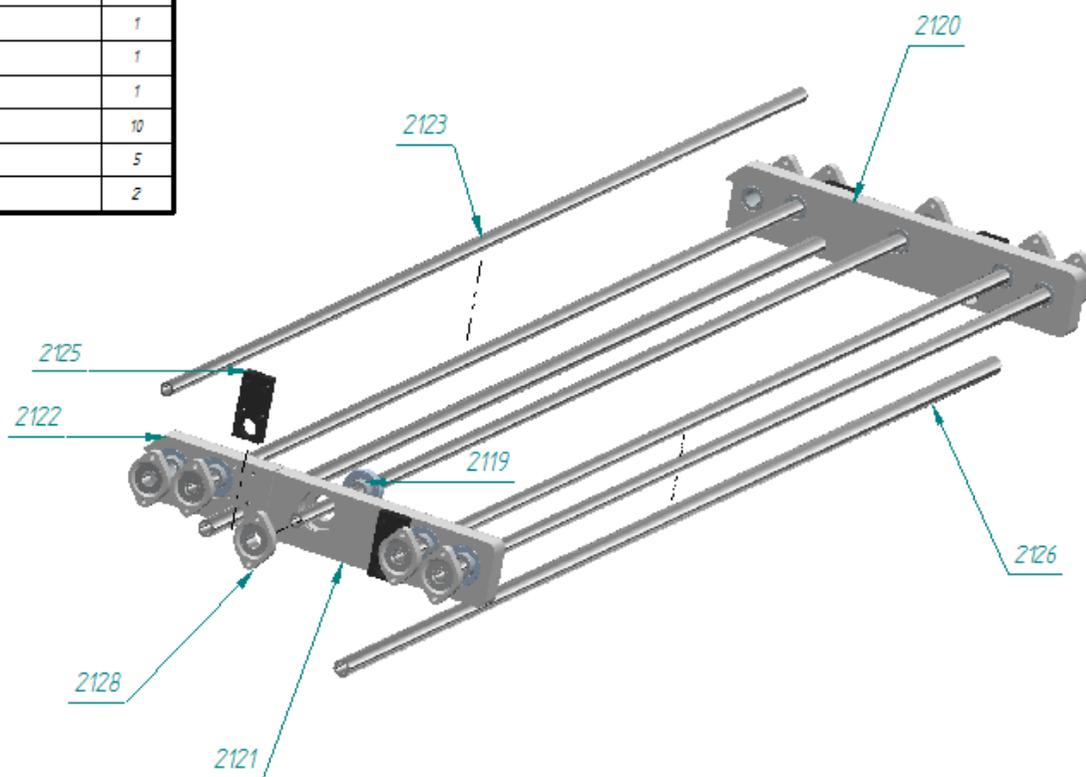
Check and replace the blades periodically, to obtain a clean cut with the least friction.



Replace the bottom nylon blade rest place when necessary due to excessive wear.

- **Spare parts:**

Number	Part name	Units
2119	0664-225-00,par	10
2125	Freno guias,par	4
2120	GU4,par	1
2122	GU42,par	1
2121	GU43,par	1
2128	Soparte rodi 25	10
2123	Vasla tube 25x4,par	5
2126	Vasla tube 30x5,par	2

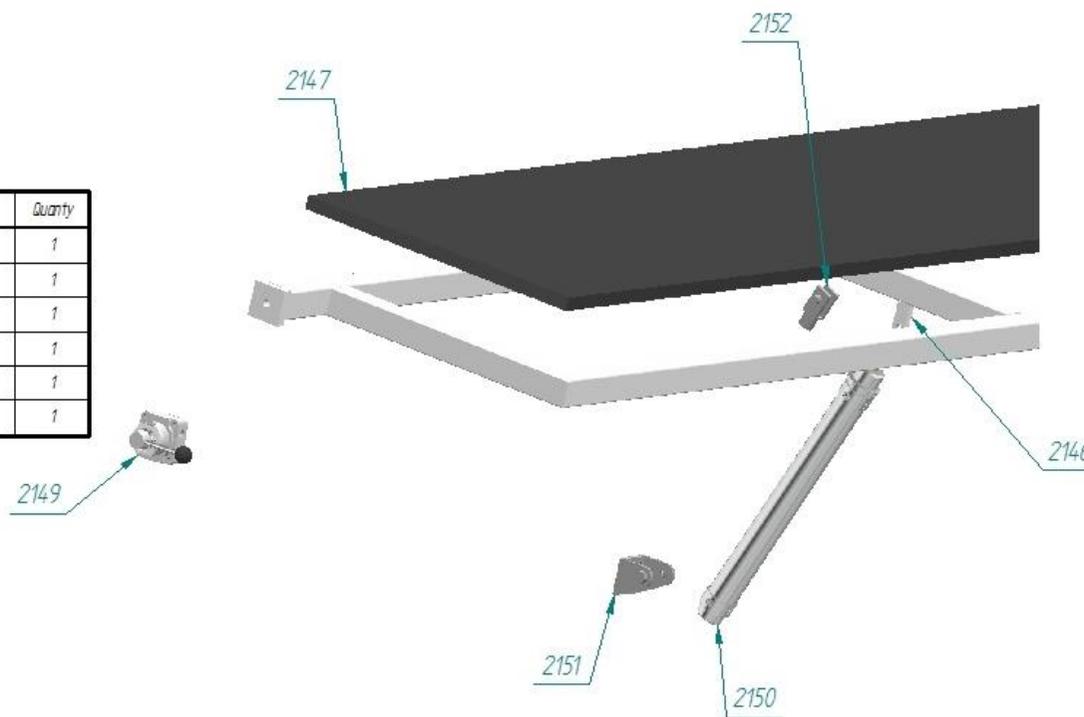


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Part N°	Name	Quantity
2146	Para Clevis.par	1
2147	TABLERO ABATIBLE.par	1
2149	WH212_02.par	1
2150	body_A_C76E40_300.par	1
2151	CLEVIS_40.par	1
2152	GKM12_24.par	1

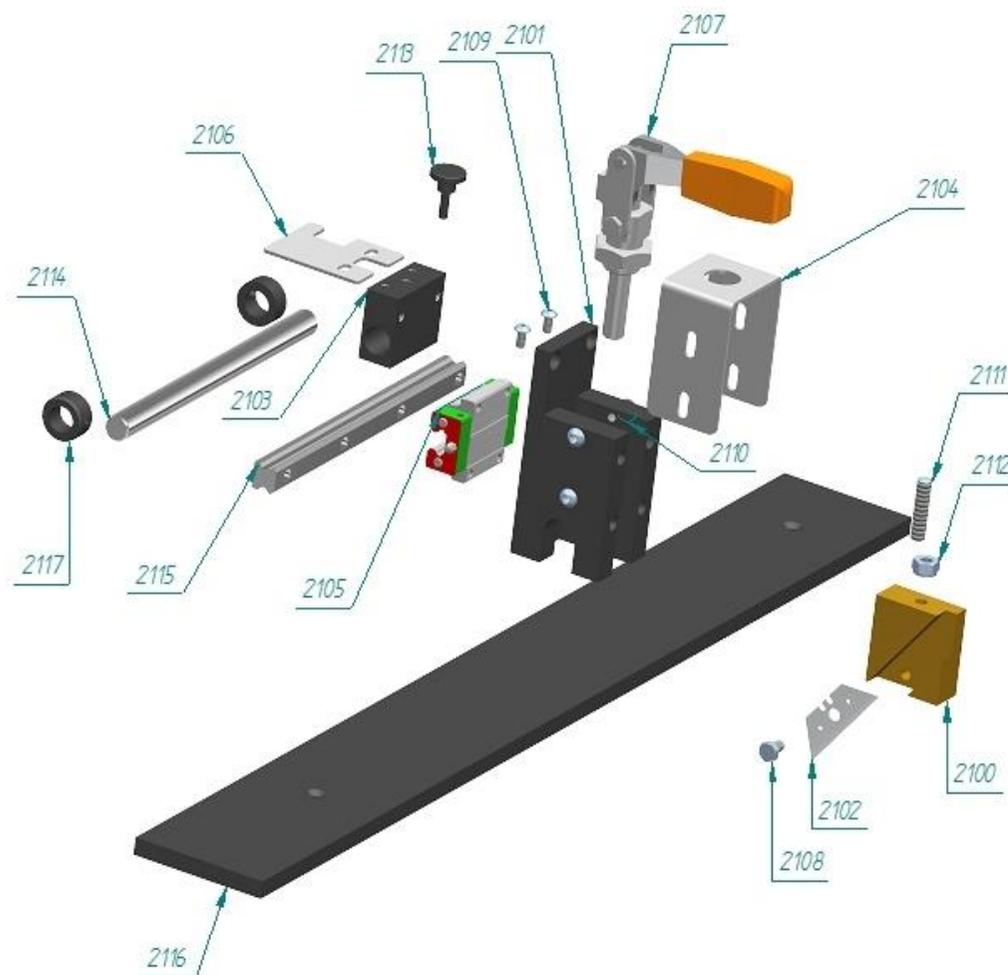


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Part N°	Name	Quantity
2100	PORTA CUCHILLA.par	1
2102	Martor 42063	1
2103	FRENO CABEZA.par	1
2104	TAPA BRIDA ARTICULADA.psm	1
2105	Patín Hiwin 15.par	1
2106	Senal Metro.psm	1
2107	gr_843_1_165_as_0_0.asm	1
2108	Screw_DIN_933_M7x12.par	1
2109	Screw_60_7380_M5x10.par	2
2110	Screw_60_7380_M6x10.par	4
2111	Screw_DIN_913_1980_M8x35.par	1
2112	Nut_DIN_980_M_M8_v9.00.par	1
2113	rin_464_r6_16.par	1
2114	Vasla freno.par	1
2115	GUIA 16X200.par	1
2116	NYLON 1650X110X10.par	1
2117	gr_705_15_e.par	2

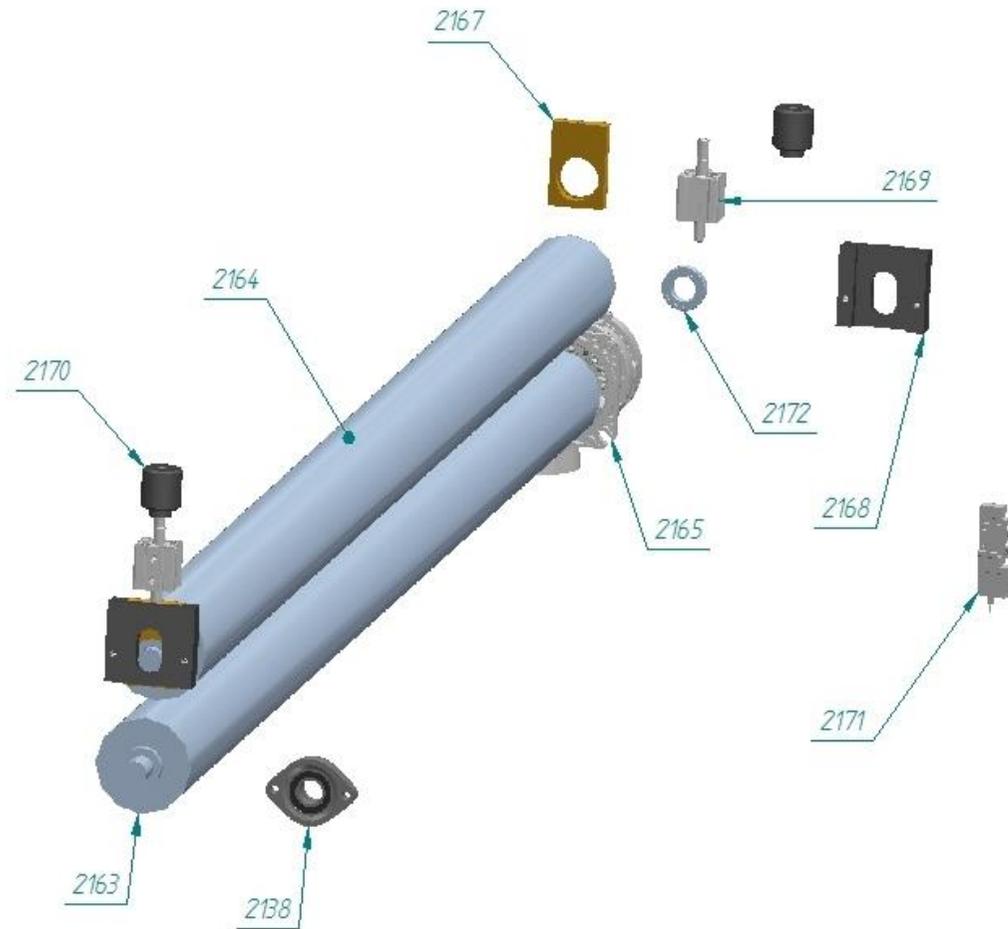


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Part N°	Name	Quantity
2138	SOPORTE 30.par	1
2163	RODILLO INFERIOR.2200.par	1
2164	RODILLO SUPERIOR 2200.par	1
2165	mrs60_p.c._fl_iec60_b14_x1.par	1
2167	Dado rodillo superior.par	2
2168	Guia dado.par	2
2169	C02wB40-150M.asm	2
2170	Mando presion rodillo.par	2
2171	52_SY7120_L3_02.par	1
2172	Bearing_DIN_625_1_1989_6006_2RS_v9.00.par	2



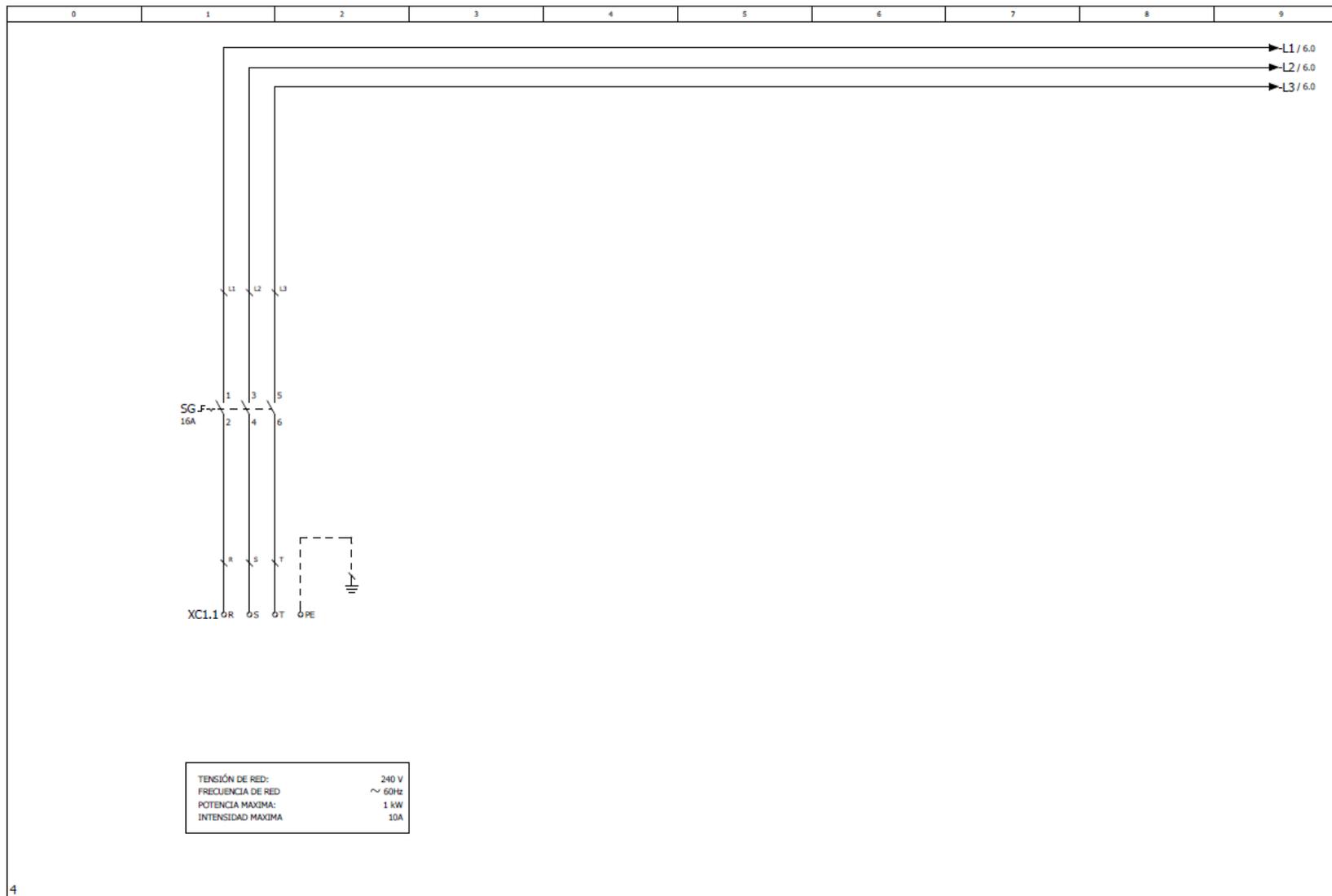
- Electrical drawings

		Automatismos Tecelmac S.L. C/ Rec del molí, 25. Nau 2. Pol. Ind. Molí de Les Planes 08470, Sant Celoni (Barcelona) Telf. : 93.848.73.69 Mail: tecelmac@tecelmac.com	
CLIENTE : ERMENGINEERING DENOM. INSTALACIÓN : CORTADORA LMM200 3X240V 60Hz NÚM. DIBUJO : 18531			
FABRICANTE (EMPRESA) : ERMENGINEERING TIPO DE ESQUEMAS : ELÉCTRICOS NORMATIVA : DIN FORMATO-VERSIÓN : EPLAN P8 NOMBRE FICHERO : Z:\Feines\EPLAN P8\Esquemes\18531 LUGAR DE INSTALACIÓN : ARENYS DE MUNT RESPONSABLE DEL PROYECTO : J.S.P.		CARACTERÍSTICAS TÉCNICAS TENSIÓN DE ALIMENTACIÓN : 240V 3F+PE TENSIÓN DE MANDO : 24 VAC POTENCIA : 1 kW	
FECHA DE REALIZACIÓN : 11/12/2018 ELABORADO POR : BPUIG		CANTIDAD MÁX. DE PÁGINAS : 1 CANTIDAD TOTAL DE PÁGINAS : 14	
+IND/2			
Cliente 	Localidad ARENYS DE MUNT País ESPAÑA	Fecha de creación 11/12/2018 Editado por BPUIG Fabricante ERMENGINEERING Original	Fecha modificación 16/01/2019
Pág. PORTADA PROYECTO		Descripción del proyecto CORTADORA LMM200 3X240V 60Hz	Nº de proyecto 18531
			= GEN + POR Hoja 1 Total 14

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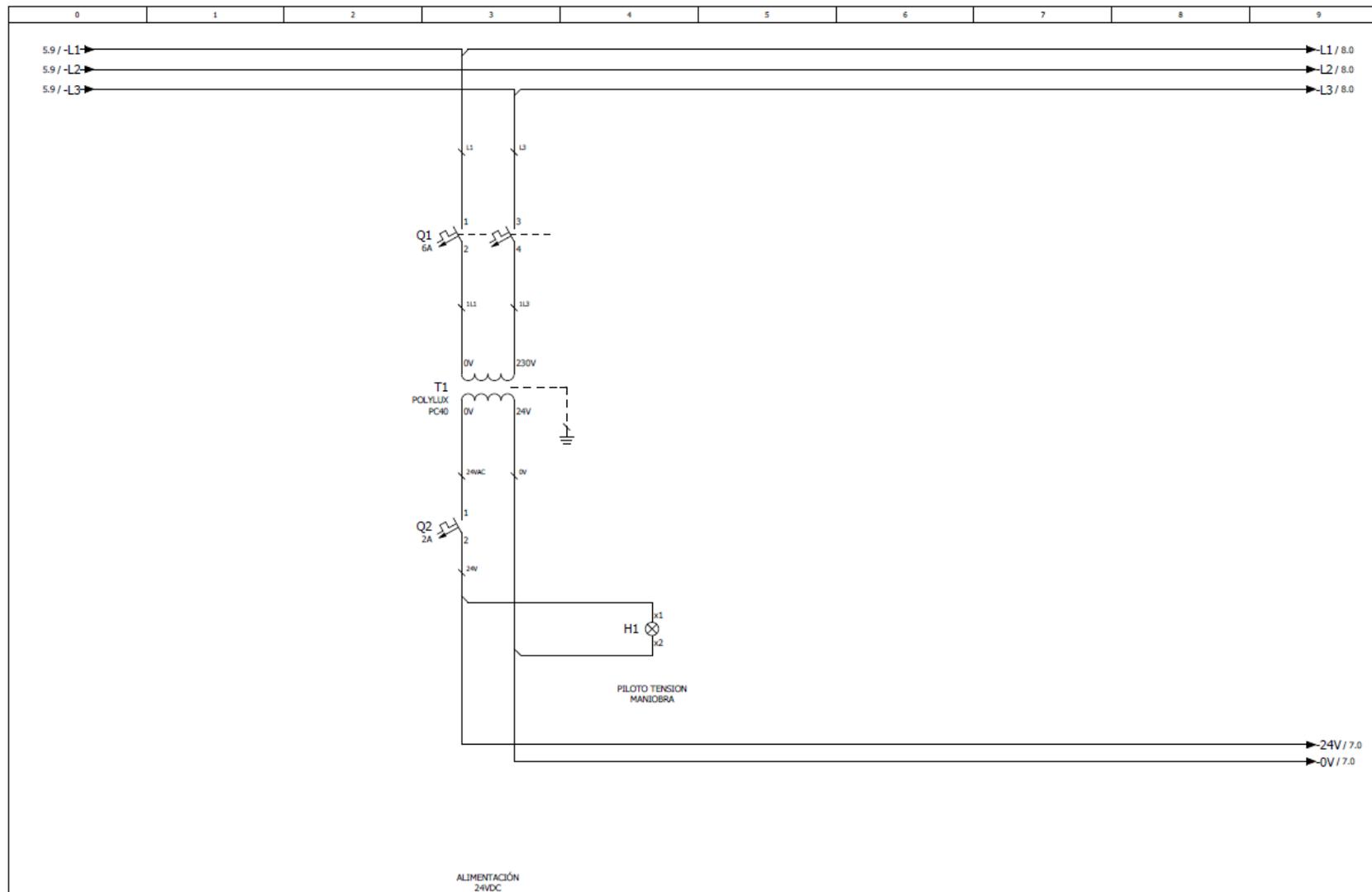


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Cliente	Localidad	ARENYS DE MUNT	Fecha de creación	11/12/2018	Pág.	ENTRADA ALIMENTACIÓN	Nº de proyecto	= ESQ
	País	ESPAÑA	Editado por	BPUIG	Descripción del proyecto CORTADORA LMM200 3X240V 60Hz	18531	+ Ct	
	Fabricante	ERMENGINEERING	Aprobado por	J.S.P.			Hoja	5
	Original		Fecha modificación	16/01/2019			Total	24

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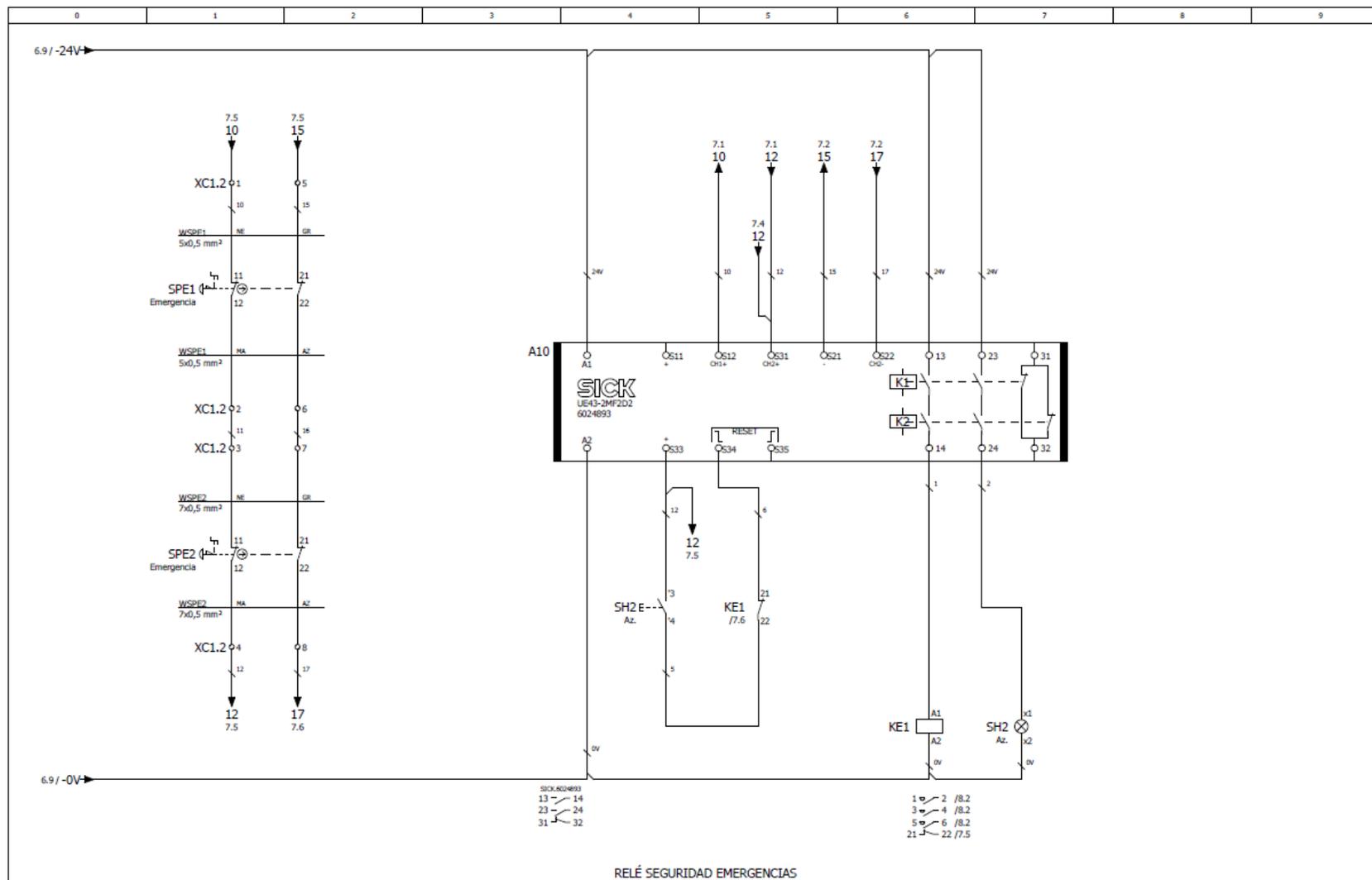


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Cliente	Localidad	ARENYS DE MUNT	Fecha de creación	11/12/2018	Pág.	ALIMENTACIÓN 24VDC Y SEGURIDAD 400V	NP de proyecto	= ESQ	
ermengineering belting fabrication equipment	País	ESPAÑA	Editado por	BPLUG	Descripción del proyecto	CORTADORA LMM200 3X240V 60Hz	18531	+ C1	
	Fabricante	ERMENGINEERING	Aprobado por	J.S.P.				Hoja	6
	Original		Fecha modificación	16/01/2019				Total	14

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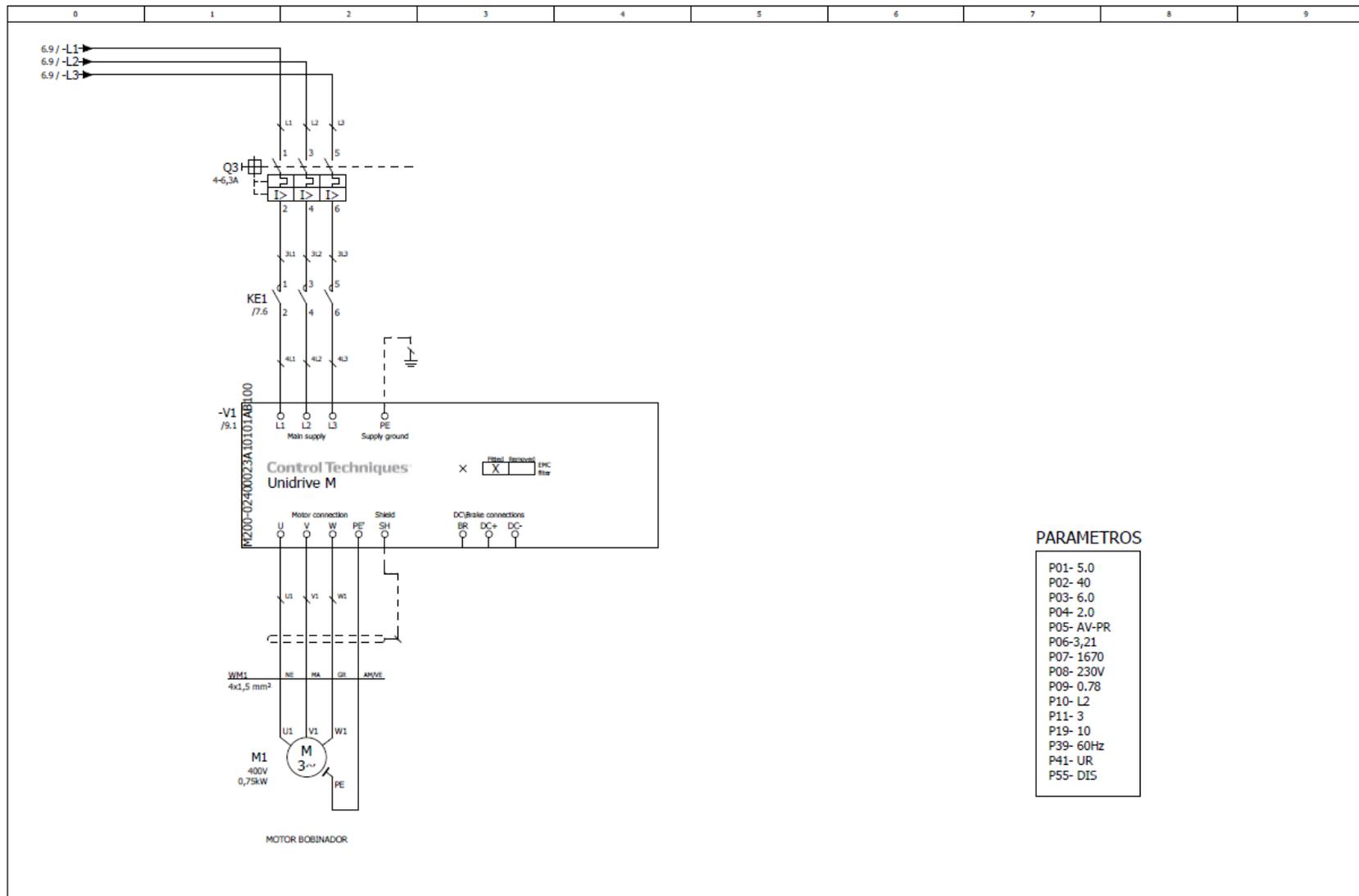
RELÉ SEGURIDAD EMERGENCIAS

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Cliente	Localidad	ARENYS DE MUNT	Fecha de creación	11/12/2018																																	
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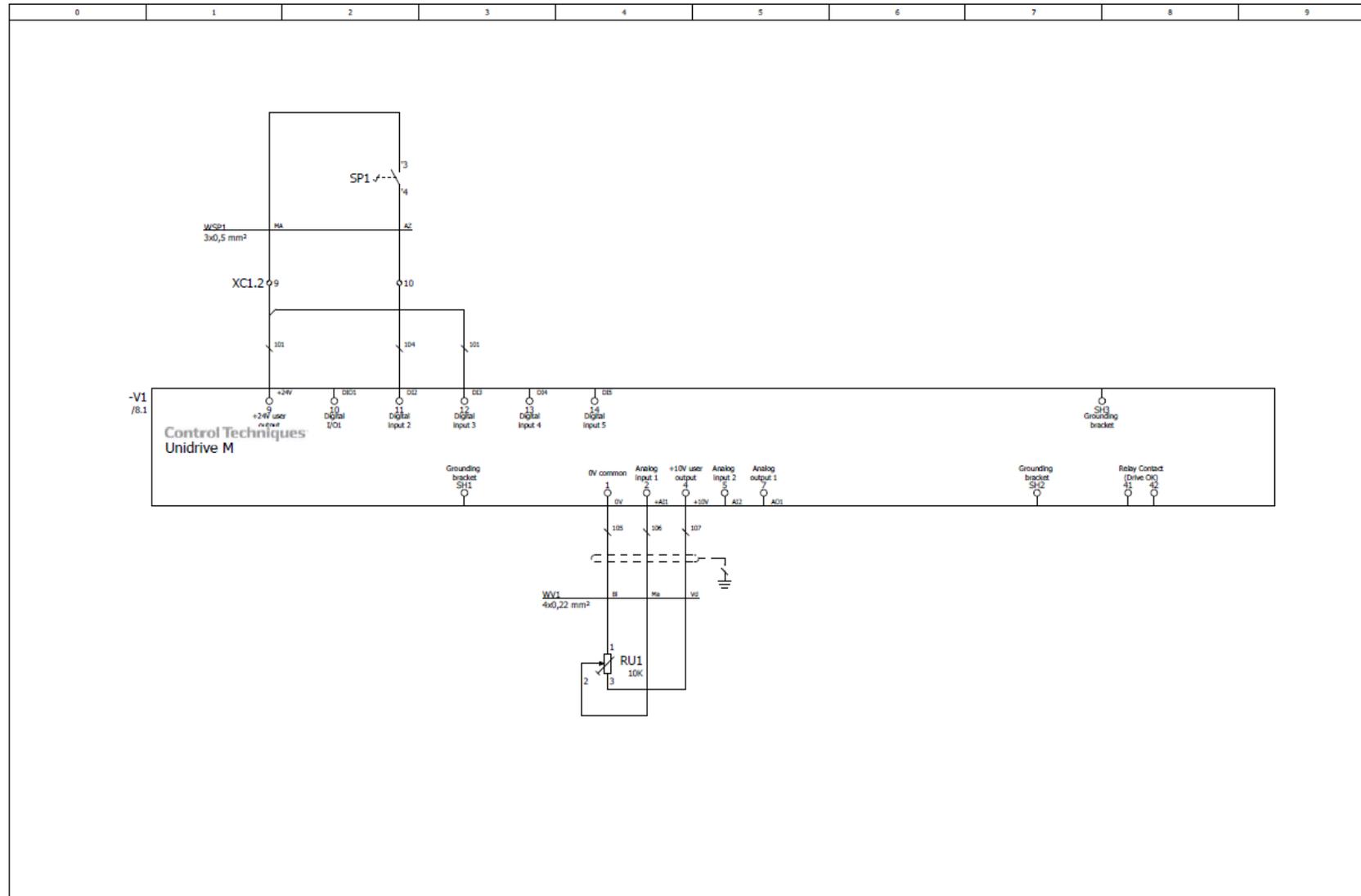


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Ciente	Localidad	Fecha de creación	Pág.
ermengineering	ARENYS DE MUNT	11/12/2018	MOTOR BOBINADOR M1
Belting fabrication equipment	País	Editado por	Descripción del proyecto
	ESPAÑA	BPUIG	CORTADORA LMM200 3X240V 60Hz
Fabricante	ERMENGINEERING	Aprobado por	Nº de proyecto
Original	J.S.P.	16/01/2019	18531
	Fecha modificación		= ESQ
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			Hoja 8
			Total 14

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Cliente	Localidad	ARENYS DE MUNT	Fecha de creación	11/12/2018	Pág.	MOTOR BOBINADOR M1		Nº de proyecto	= ESQ		
	País	ESPAÑA	Editado por	BPUIG	Descripción del proyecto CORTADORA LMM200 3X240V 60Hz		18531	+ C1			
	Fabricante	ERMENGINEERING	Aprobado por	J.S.P.				Hoja	9		
	Original		Fecha modificación	16/01/2019				Total	14		