



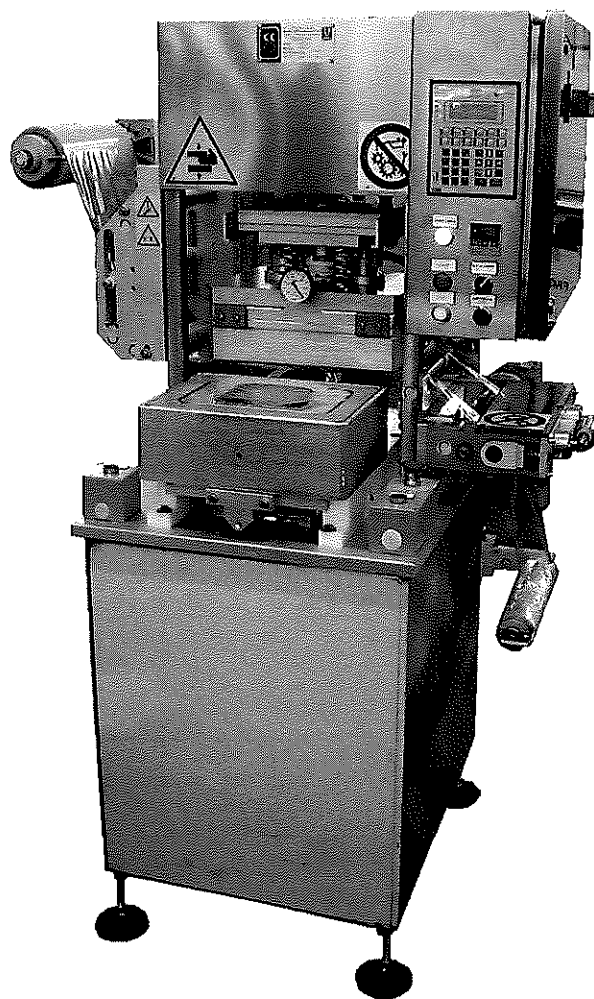
G. MONDINI

DOSATRICI - CONFEZIONATRICI AUTOMATICHE



*G. MONDINI S.p.A.
Via Brescia, 5-7
25033 COLOGNE (BS) – ITALIA*

CLOSING MACHINE TYPE CV/VG-S



Electrical Drawings

Construction year: 11/2010

Serial number: A/10/A-00164

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G.MONDINI S.p.A.
Fillers – Automatic sealing machines

ELECTRICAL DRAWINGS for MACHINE

A/10/A-00164

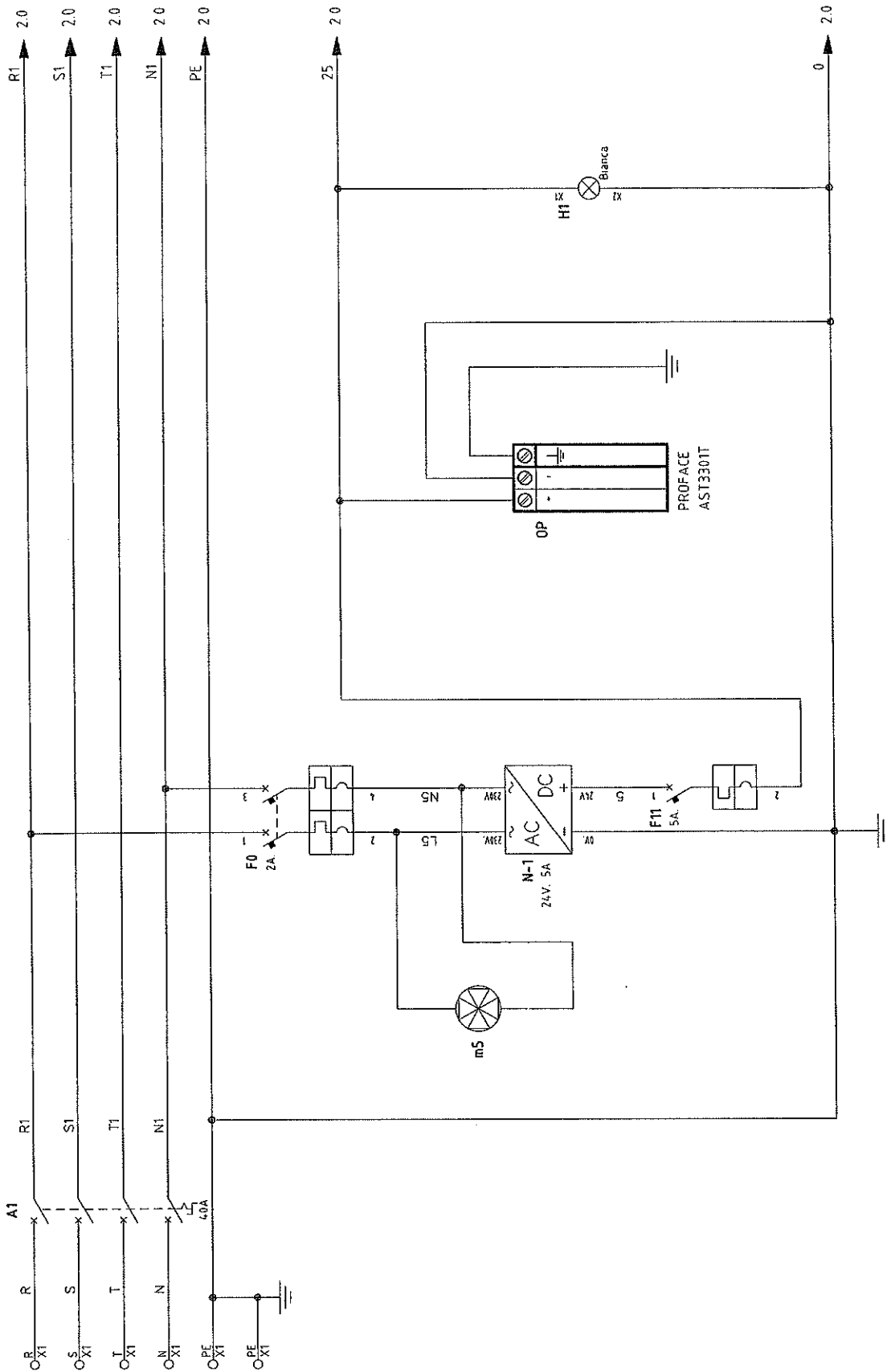
Voltage (V):415

Power installed (KW):3,2

Current absorption (A):8

Frequency (Hz):50

415V. 50Hz.
3,2KW. 8A.



CORRENTE
INSERITA
POWER ON

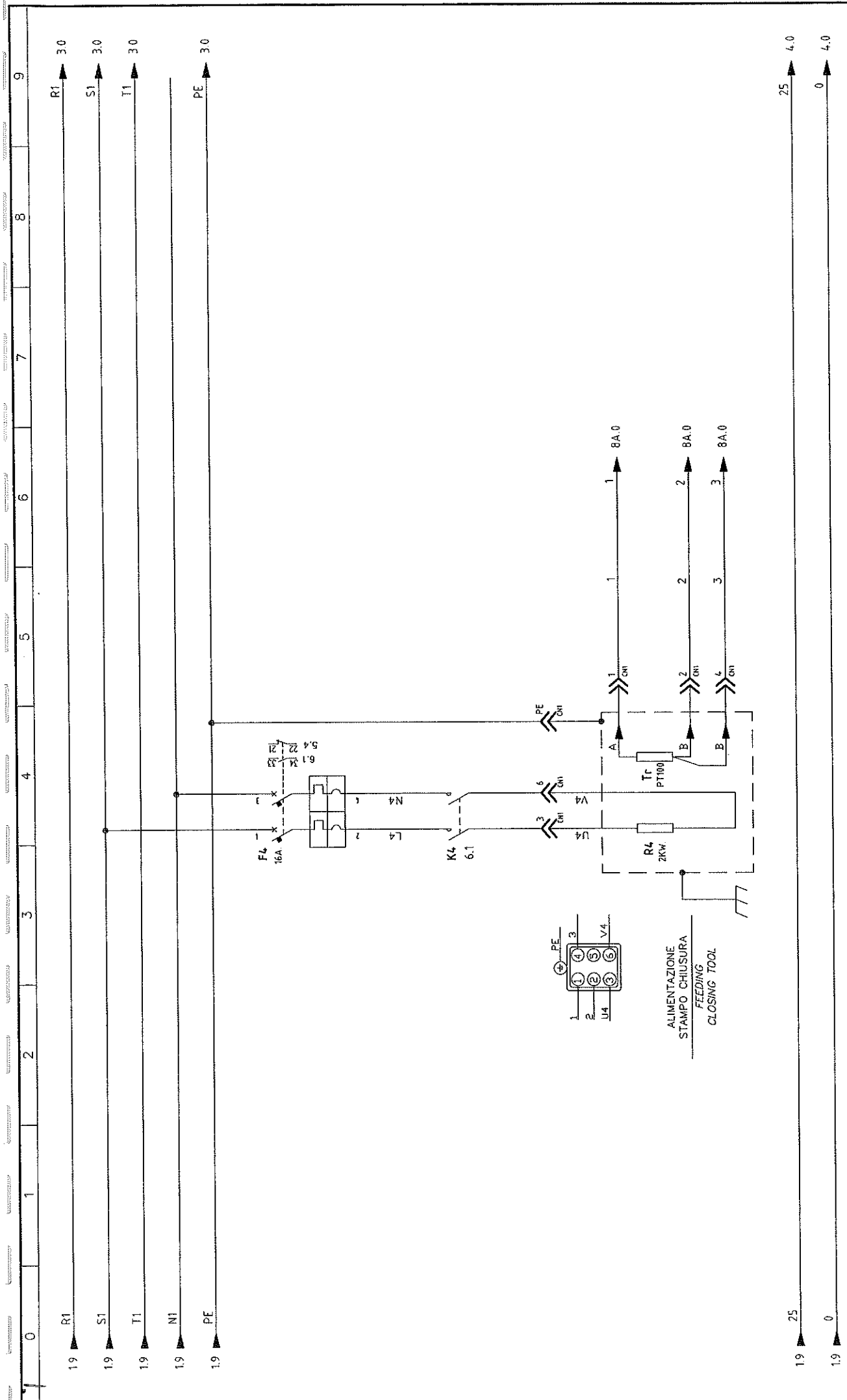
PANNELLO
OPERATORE
OPERATOR
PANEL

ALIMENTAZIONE
24V. DC
FEEDING
24V. DC

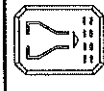
VENTILAZIONE
APPARECCHIATURA
VENTILATION
EQUIPMENT

INTERRUTTORE
GENERALE
MAIN
DISCONNECTOR

Foglio		1	2
SEGUE		2	
		G. MONDINI S.p.A. Via Brescia 5-7 25033 COLOGNE (BS) Italia Tel. +39(0)7056250 Tel. +39(0)705600 Fax +39(0)7056250 e-mail: info@mondini.com	
Ordine		Commissa A/10/A-00164	
Esecutore Pagani M.			
Impianto		CV/VG-S	
Denominazione		Alimentazione	
FEEDING			
Dis. N.		SE2671/40	
CAD		SPAC	
Nome File		A_10_A-00164-01	
Data		02/11/2010	
DISEGNO DI NOSTRA PROPRIETA'-VIETATA LA RIPRODUZIONE AI SENSI DI LEGGE			

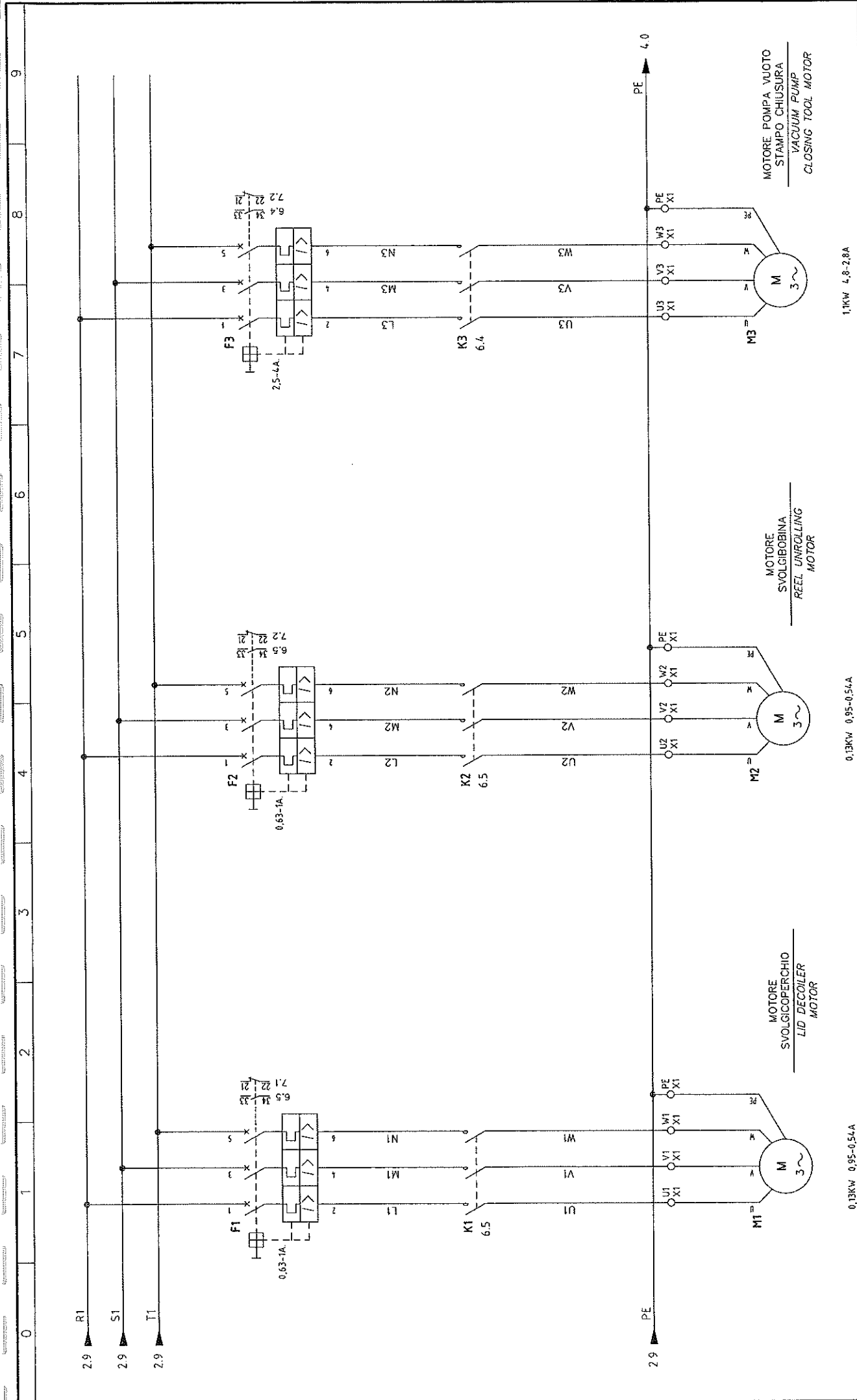


SECONDO DI NOSTRA PROPRIETÀ-VIETATA LA RIPRODUZIONE AI SENSI DI LEGGE	Dis. N. SE2671/40		Impianto		CV/VG-S	Ordine	 G. MONDINI SPA. Via Brescia 5-7 25033 COLOGNE (BS) Italia Tel. +39(30)7056250 Tel. +39(30)705600 Fax +39(30)7056250 e-mail: info@gmondini.com	FOGLIO
	CAD	SPAC						Commissa A/10/A-00164
	Name File A_10_A-00164-01		Denominazione	Riscaldamento stampo		Esecutore		SEGUE
	Data 02/11/2010		TOOL HEATING		Pagani M.	3		

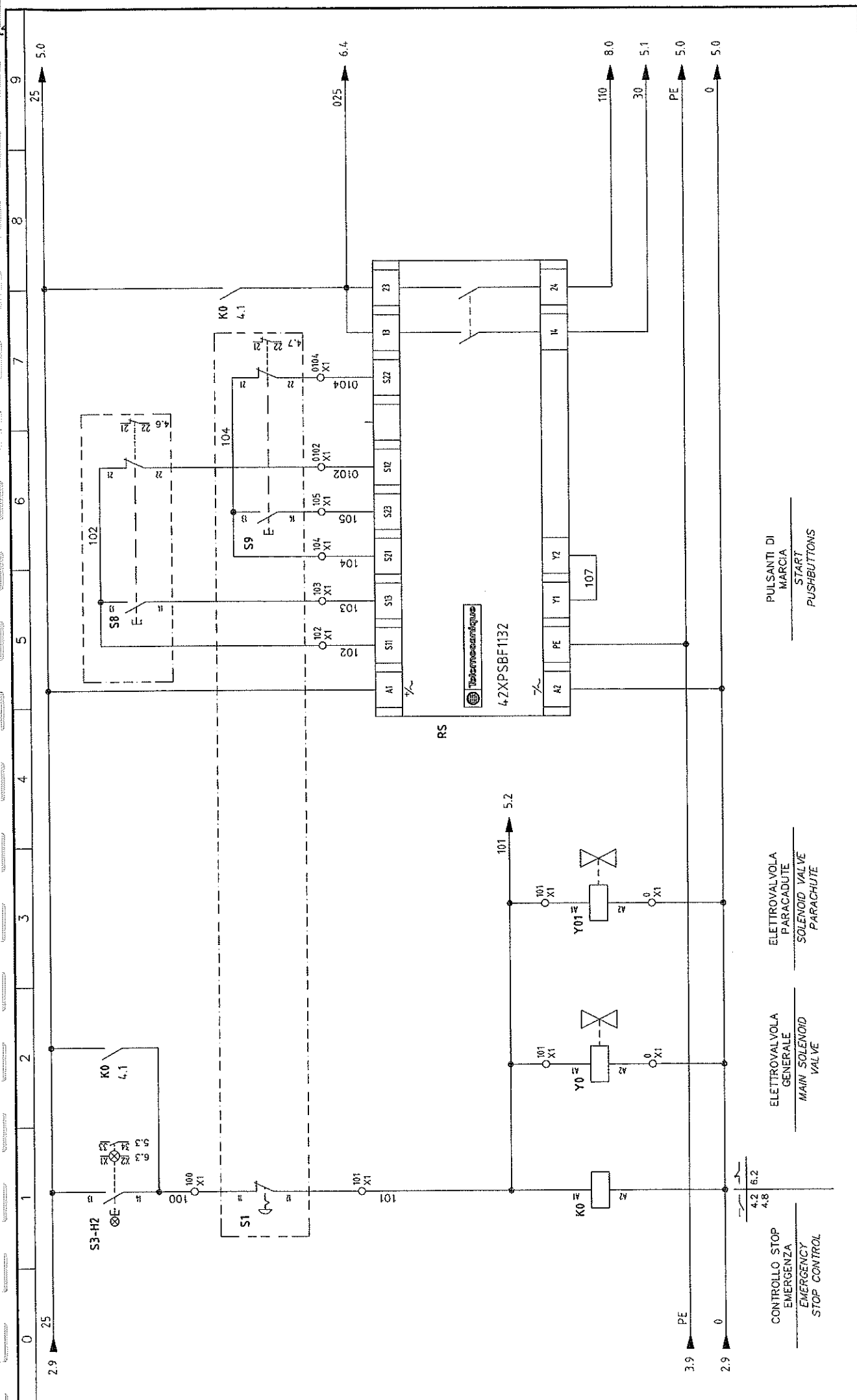


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Tel. +39(0)705600 Fax +39(0)7056250 e-mail: info@gmondini.com

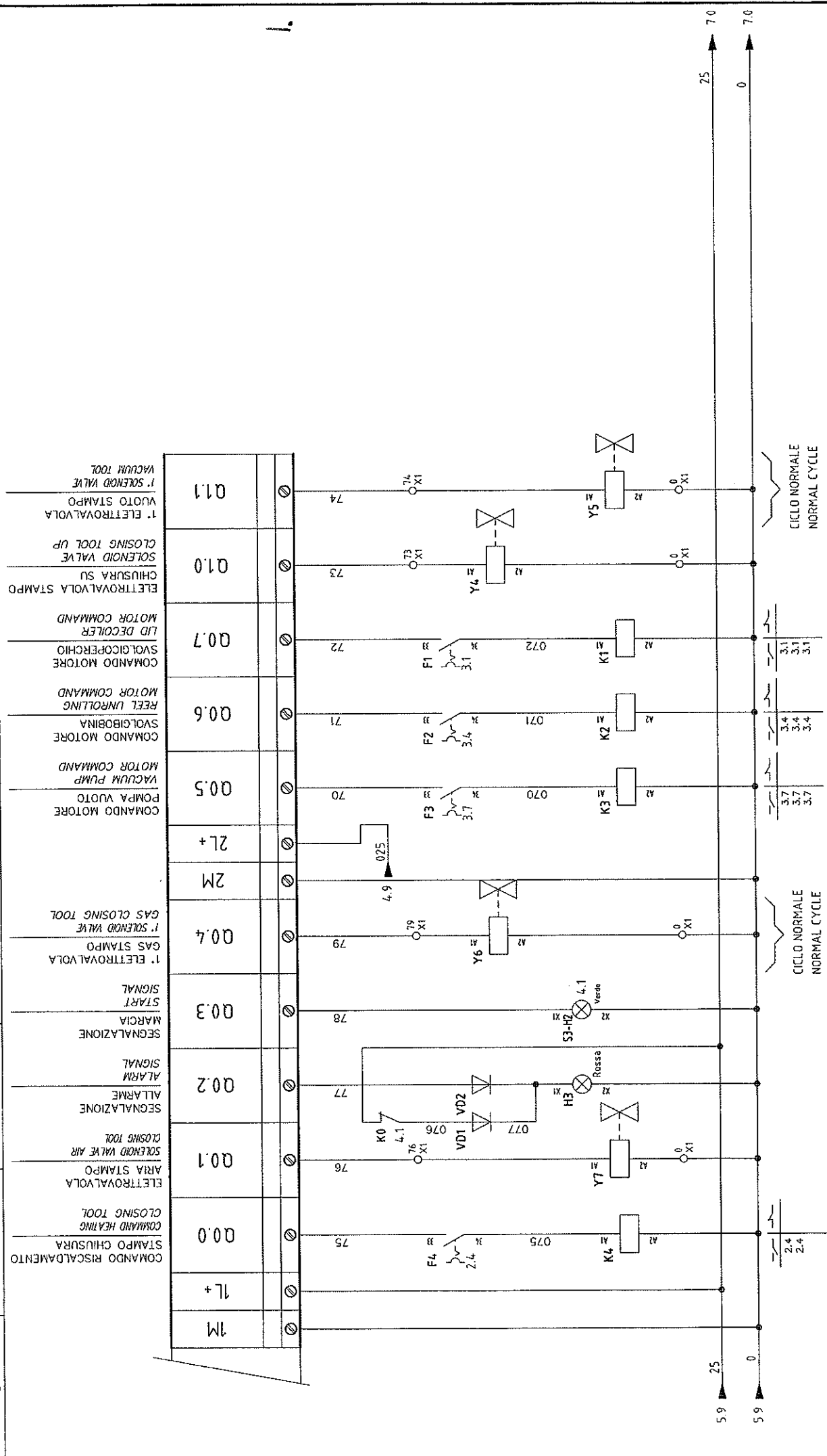


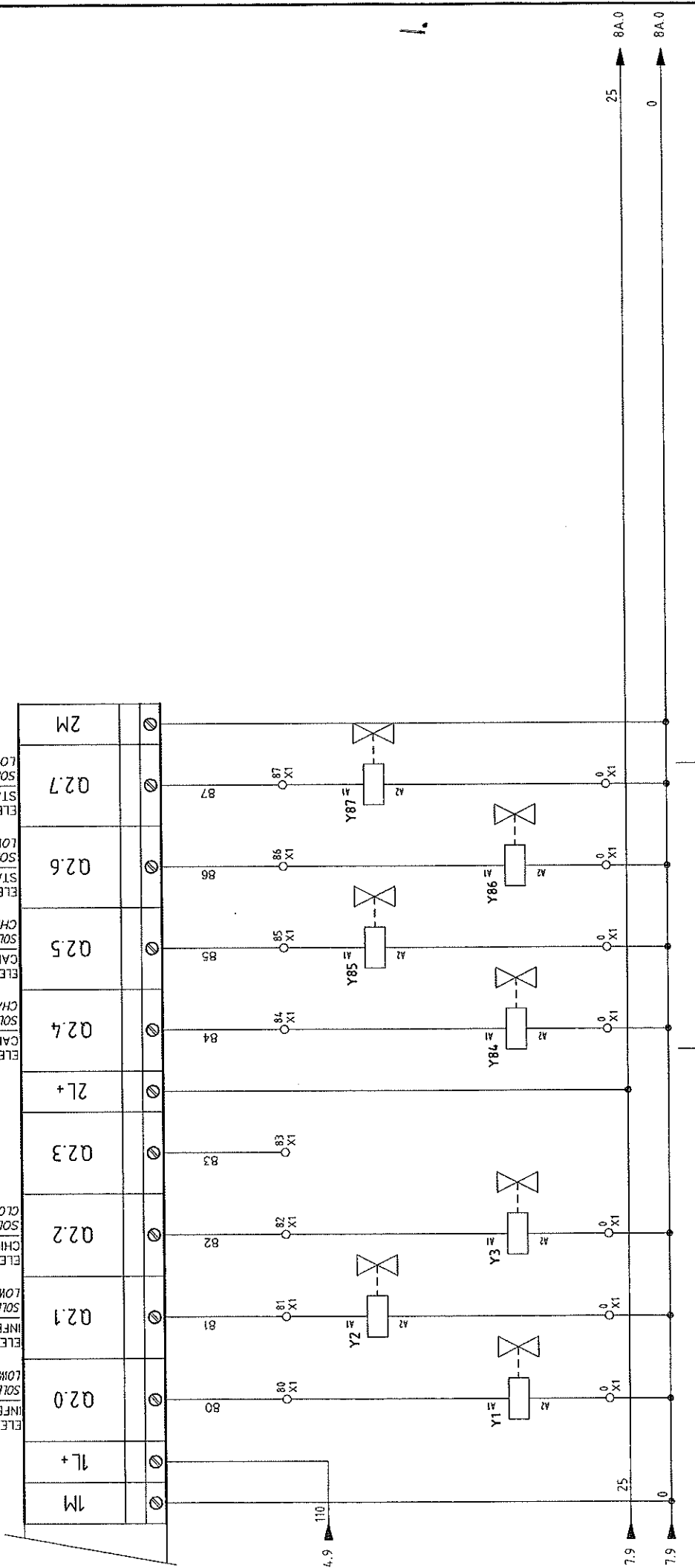
0.13KW 0.95-0.54 A		0.13KW 0.95-0.54 A		1.1KW 4.8-2.8 A	
		CV/VG-S		 G. MONDINI S.p.A. Via Brescia 5-7 25033 COLOGNE (BS) Italia Tel. +39(30)7056250 Tel. +39(30)705600 Fax +39(30)7056250 e-mail: info@gmondini.com	
Dis. N. SE2671/40		Impianto			
CAD SPAC		Ordine			
Nome File A_10_A-00164-01		Commissa A/10/A-00164			
Data 02/11/2010		Denominazione Alimentazioni motori MOTORS FEEDING		Esecutore Pagani M.	
DISEGNO DI NOSTRA PROPRIETA'-VIETATA LA RIPRODUZIONE AI SENSI DI LEGGE					



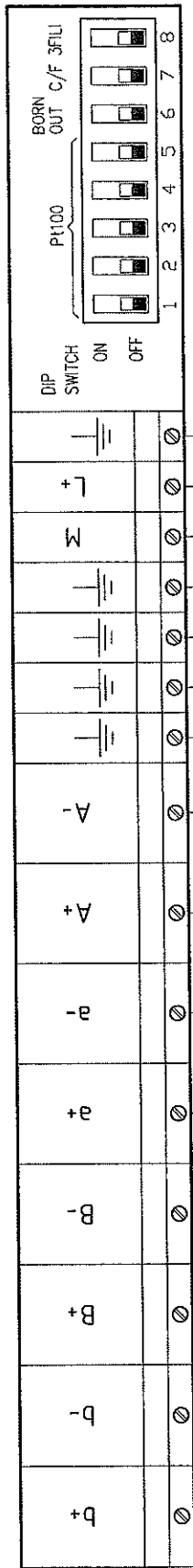
Dis. N. SE2671/40 CAD SPAC Nome File A_10_A-00164-01 Data 02/11/2010		Impianto CV/VG-S Denominazione Marcia ed emergenze Start and emergency stop		Ordine Commesso A/10/A-00164 Esecutore Pagani M.	FOGLIO 4 SEQUE 5
---	--	--	--	--	---


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CICLO SKIN
SKIN CYCLE



2.6 1 BIANCO-WHITE

2.6 2 ROSSO-RED

2.6 3 ROSSO-RED

8.9 25

8.9 0

CARD 1

CARD 2

CPU	Q0 Q1 IO I1	I2 Q2	AN
-----	----------------------	----------	----

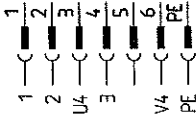
486ES72141AD21

486ES7231BH20

486ES72317BB20

	Dis. N.	SE2671/40		Impianto	CV/VG-S	Ordine	 G. MONDINI S.p.A. Via Brescia 5-7 25033 COLOGNE (BS) Italia Tel. +39(30)7056250 Tel. +39(30)705600 Fax +39(30)7056250 e-mail: info@gmondini.com	FOGLIO	9
	CAD	SPAC						Commissa	A/10/A-00164
	Nome File	A_10_A-00164-01		Denominazione	Disposizione PLC	Esecutore			
	Data	02/11/2010			PLC DISPOSITION	Pagani M.			

QUADRO QG - CONNETTORE CN1
Connettore alimentazione stampo chiusura
Connector feeding closing tool



DISEGNO DI NOSTRA PROPRIETA'-VIETATA LA RIPRODUZIONE AI SENSI DI LEGGE	Dis. N.	SE2671/40	Impianto	CV/VG-S	Ordine	FOGLIO 10	
	CAD	SPAC					Commissa A/10/A-00164
	Nome File		A_10_A-00164-01	Denominazione	Connettori	Esecutore Pagani M.	 G. MONDINI SPA. Via Brescia 5-7 25033 COLOGNE (BS) Italia Tel.+39(30)7056250 Tel. +39(30)705600 Fax +39(30)7056250 e-mail: info@gmondini.com
	Data		02/11/2010	CONNECTORS			

QUADRO QG - MORSETTIERA X1

X1	4	0	84
X1	4	0	84
X1	4	0	83
X1	4	0	56
X1	4	0	55
X1	4	0	55
X1	4	0	56
X1	4	0	58
X1	4	0	57
X1	4	0	58
X1	4	0	82
X1	4	0	81
X1	4	0	81
X1	4	0	42
X1	4	0	43
X1	4	0	74
X1	4	0	75
X1	4	0	63
X1	4	0	85
X1	4	0	66
X1	4	0	66
X1	4	0	62
X1	4	N	11
X1	4	R	11
X1	4	S	11
X1	4	T	11
X1	4	U1	31
X1	4	V1	31
X1	4	W1	31
X1	4	U2	34
X1	4	V2	34
X1	4	W2	35
X1	4	U3	37
X1	4	V3	38
X1	4	W3	38
X1	4	25	54
X1	4	25	55
X1	4	25	55
X1	4	25	56
X1	4	25	57

X1	4	25	56
X1	4	25	57
X1	4	25	58
X1	4	25	74
X1	4	25	75
X1	4	34	54
X1	4	36	55
X1	4	37	55
X1	4	38	56
X1	4	39	56
X1	4	39	74
X1	4	40	57
X1	4	40	75
X1	4	41	57
X1	4	42	58
X1	4	46	73
X1	4	47	74
X1	4	48	74
X1	4	48	74
X1	4	49	75
X1	4	49	75
X1	4	50	75
X1	4	73	66
X1	4	74	66
X1	4	76	62
X1	4	79	63
X1	4	80	81
X1	4	81	81
X1	4	82	82
X1	4	83	82
X1	4	84	83
X1	4	85	84
X1	4	86	84
X1	4	87	85
X1	4	100	41
X1	4	101	42
X1	4	101	43
X1	4	101	41
X1	4	102	45
X1	4	0102	46

DISEGNO DI NOSTRA PROPRIETA'-VIETATA LA RIPRODUZIONE AI SENSI DI LEGGE	Dis. N.	SE2671/40	Impianto	CV/VG-S	Ordine	FOGLIO 11 SEGUE 11A
	CAD	SPAC	Denominazione	Morsetti TERMINAL STRIP	Commissa A/10/A-00164	
	Norme File	A_10_A-00164-01	Esecutore	Pagani M.		
			Data	02/11/2010	Via Brescia 5-7 25033 COLOGNE (BS) Italia Tel.+39(0)7056250 Tel. +39(0)705600 Fax +39(0)7056250 e-mail: info@mondini.com	

**MONDINI** SPA.
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X1	4	O	103	4.5
X1	4	O	104	4.6
X1	4	O	0104	4.7
X1	4	O	105	4.6
X1	4	O	202	7.3
X1	25	☒	PE	1.1
X1	25	☒	PE	1.1
X1	25	☒	PE	3.8
X1	25	☒	PE	3.2
X1	25	☒	PE	3.5

DISEGNO DI NOSTRA PROPRIETA'-VIETATA LA RIPRODUZIONE AI SENSI DI LEGGE	Dis. N.	SE2671/40	Impianto	CV/VG-S	Ordine	 G. MONDINI SPA. Via Brescia 5-7 25033 COLOGNE (BS) Italia Tel.+39(30)7056250 Tel. +39(30)705600 Fax +39(30)7056250 e-mail: info@gmondini.com	FOGLIO
	CAD	SPAC					Compresso
	Nome File	A_10_A-00164-01	Denominazione	Marsettiera	Esecutore		SEGUE
	Data	02/11/2010	TERMINAL STRIP	Pagani M.	12		

0123456789									
Nome/Item	Cod. int./Internal code	Cod. costr./Marke code	Descrizione/Description			Costruttore/Marke		Quadro/Board Fg/Sh	
F2	42GVAN11		Contatti ausiliari			Telemecanique		QG	
F3	42GV2ME08		Interuttore automatico tripolare con protezione massima corrente e termica			Telemecanique		QG	
F4	42GVAN11		Contatti ausiliari			Siemens		QG	
F4	42GVAN11		Interuttore automatico magnetotermico bipolare			Telemecanique		QG	
F11	44GB2CB10		Interuttore automatico magnetotermico unipolare			Telemecanique		QG	
H1	42XB4BV81		Segnalazione luminosa			Telemecanique		QG	
H3	42XB4BV84		Segnalazione luminosa			Telemecanique		QG	
K0	42LC1D09BL		Bobina contattore			Telemecanique		QG	
K1	42LADN11		Contatti ausiliari			Telemecanique		QG	
K2	42LC1D09BL		Bobina contattore			Telemecanique		QG	
K3	42LC1D09BL		Bobina contattore			Telemecanique		QG	
K4	42LC1D09BL		Bobina contattore			Telemecanique		QG	
m5	49VH6500		Ventilatore			Ceb		QG	
N-1	49ET4065		Convertitore di corrente AC-DC monofase			Eurotek		QG	
OP	48AST3301T		Pannello Operatore			Proface		QG	
	48CA3ADPCOM01		Adattatore			Proface		QG	
	48CA3ADPSE01		Adattatore			Proface		QG	
R1	48RES100/5W		Resistore			TELEMECANIQUE		QG	
RS	42XPSBF132		Modulo di sicurezza Preventa Mod XPS-BF			Telemecanique		QG	
S2	42ZB4BA2		Comando a Pulsante NO			Telemecanique		QG	
	42ZB4BZ101		Comando a Pulsante NO			Telemecanique		QG	
S3-H2	42ZB4BW333		Pulsante luminoso			Telemecanique		QG	
	42ZB4BW0831		Lampada			Telemecanique		QG	
	42ZB4BE101		Contatti			Telemecanique		QG	
S8	42ZB4BA2		Comando a Pulsante NO			Telemecanique		QG	
	42ZB4BZ101		Contatti			Telemecanique		QG	
	42ZB4BE101		Contatti			Telemecanique		QG	
S9	42ZB4BA2		Comando a Pulsante NO			Telemecanique		QG	
	42ZB4BZ101		Contatti			Telemecanique		QG	
	42ZB4BE101		Inglese			Telemecanique		QG	
VD1			Diode					QG	
VD2			Diode					QG	
CN1	6 POLI + PE		Connettore 6 poli + PE			ILME		QG	
X1	USLK G4		Morsetto di terra da 2.5 mm per barra Din			PHOENIX		QG	
	UK5		Morsetto da 4 mm per barra Din			PHOENIX		QG	
	UKK5		Morsetto doppio da 4 mm per barra Din			PHOENIX		QG	

Foglio		13	SEGUE		14
Dis. N.		SE2671/40	Impianto		
CAD		SPAC	CV/VG-S		
Nome File	A_10_A-00164-01		Denominazione		
Data	02/11/2010		Distinta materiali		
			MATERIAL LIST		
			Esecutore		
			Pagani M.		



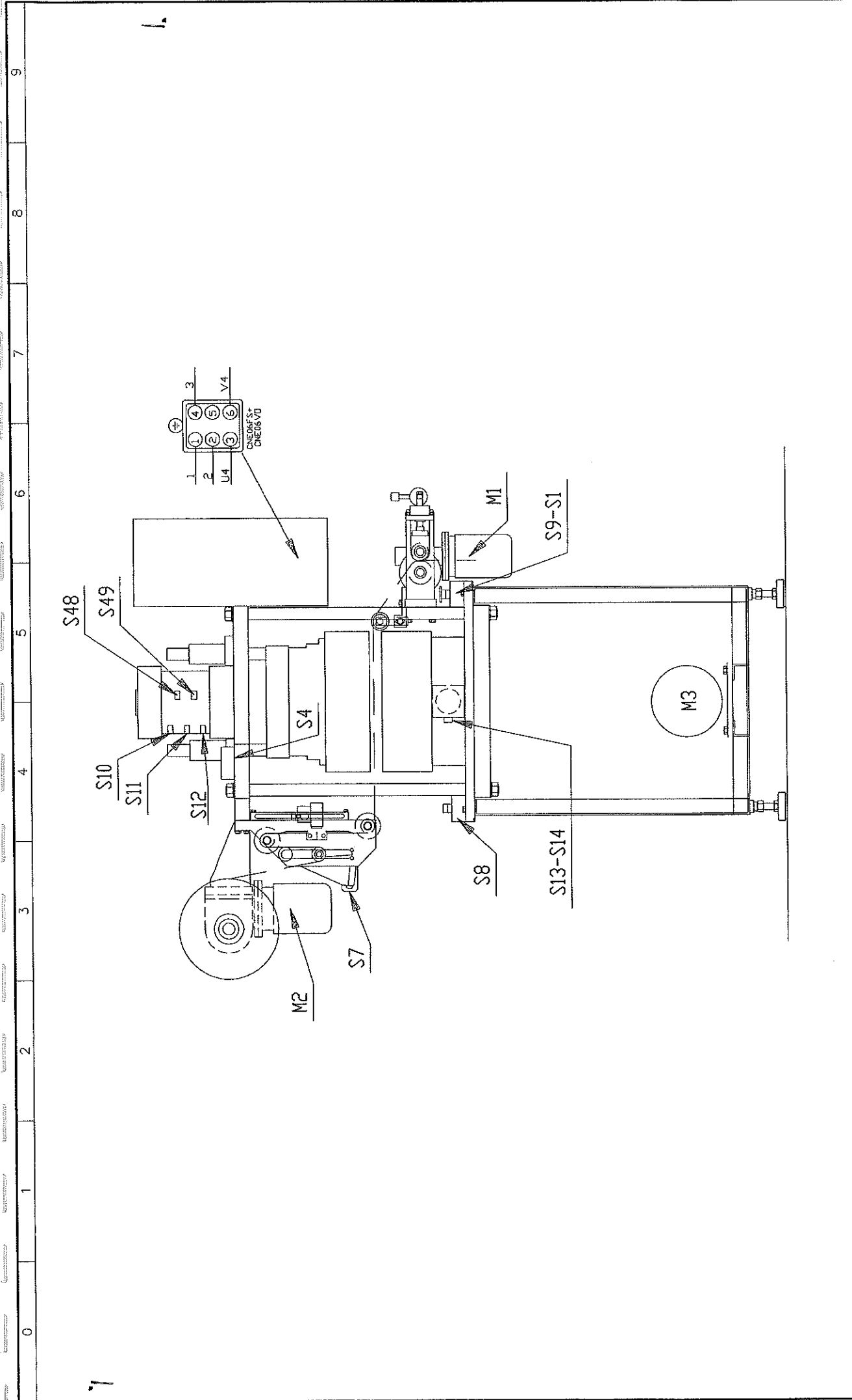
G. MONDINI SPA.
Via Brescia 5-7 25033 COLOGNE (BS) Italia Tel. +39(0)7066250
Tel. +39(0)706600 Fax +39(0)7066250 e-mail: info@mondini.com

0	1	2	3	4	5	6	7	8	9
Sim.\Sym.	File	Descrizione\Description			Sim.\Sym.	File	Descrizione\Description		
	B16A	Fotocellula emettitore-ricevitore NO alimentazione DC				S24C	Pulsante di emergenza a posizione stabile NC		
	G1	Convertitore di corrente AC-DC monofase				S56	Proximity NO		
	H5	Segnalazione luminosa				S75	Pulsante con lampada di segnalazione incorporata NO		
	M2	Motore asincrono trifase				V1	Diodo		
	Q9	Int. aut. magnetotermico unipolare				Y1	Elettrovalvola aperta (in chiusura)		
	Q10	Int. aut. magnetotermico bipolare				KM1	Bobina contattore		
	Q23	Int. aut. tripolare con prot. max corrente e termica				BLK4	Termoresistenza		
	R1	Resistore				BLK6	Ventilatore		
	R10	Resistore				BLK29	Proximity NO		
	S2	Comando a Pulsante NO				BLK56	Interruttore di potenza tripolare		
	S9	Comandato dalla pressione (pressostato) NO				T_PLC0	Alimentazione PLC e Pannello Operatore		

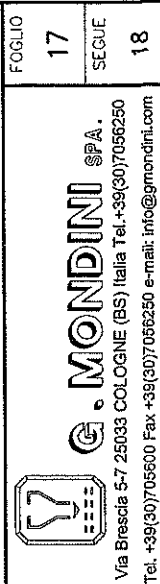
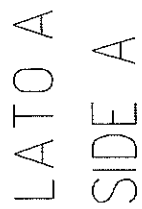
Dis. N. SE2671/40		Impianto		Ordine		Foglio	
CAD	SPAC	CV/VG-S		Comessa		14	
Nome File	A_10_A-00164-01	Denominazione		Esecutore		SEGUE	
Data	02/11/2010	COMPONENTS PLANT		Paggi M.		15	

G. MONDINI SPA.
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Tel. +39(0)705600 Fax +39(0)7056250 e-mail: info@mondini.com

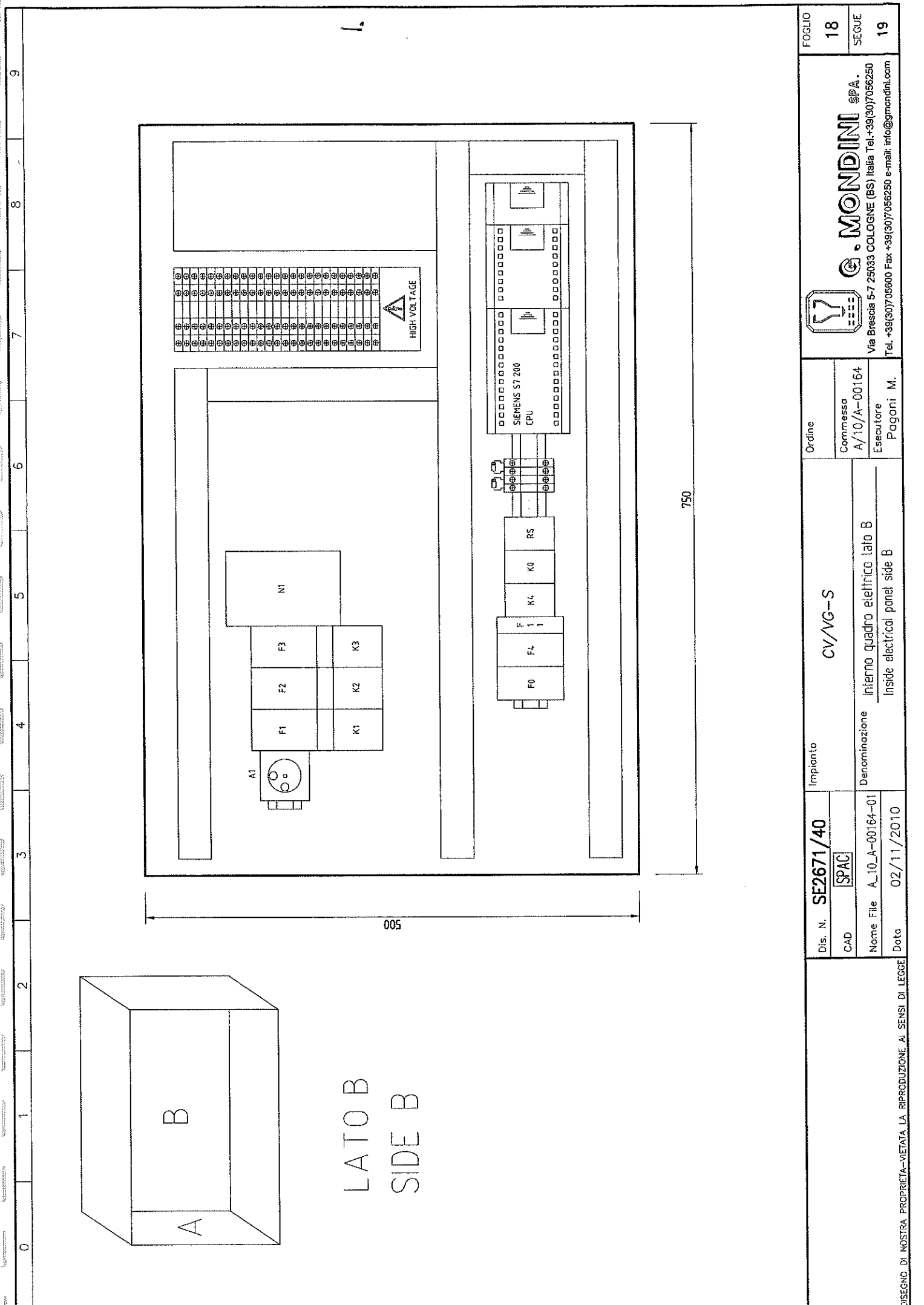
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DISEGNO DI NOSTRA PROPRIETÀ-VIETATA LA RIPRODUZIONE AI SENSI DI LEGGE				Dis. N. SE2671/40		Impianto		CV/VG-S		Ordine	 G. MONDINI S.p.A. Via Brescia 5-7 25033 COLOGNE (BS) Italia Tel. +39(0)7056250 Tel. +39(0)705600 Fax +39(0)7056250 e-mail: info@mondini.com		FOGLIO
				CAD SPAC									Commessa A/10/A-00164
				Nome File A_10_A-00164-01		Denominazione		Disposizione componenti		Esecutore			
				Data 02/11/2010		COMPONENTS DISPOSITION		Pagoni M.		SEGUE			
17													



Dis. N.	SE2671/40		Impianto	CV/VG--S	Ordine
CAD	[SPAC]				Commissa A/10/A--00164
Nome File	A_10_A--00164--01		Denominazione	Esterno quadro elettrico lato A	
Data	02/11/2010			OUTSIDE ELECTRICAL PANEL SIDE A	Esecutore Pagani M.



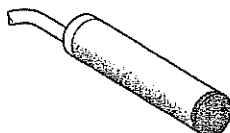
DISEGNO DI NOSTRA PROPRIETÀ-VIETATA LA RIPRODUZIONE AI SENSI DI LEGGE	Dis. N. SE2671/40		Impianto		 G. MONDINI S.p.A. Via Brescia 5-7 25033 COLOGNE (BS) Italia Tel. +39(30)7056250 Tel. +39(30)705600 Fax +39(30)7056250 e-mail: info@gmondini.com	Ordine		FOGLIO	18
	CAD	SPAC				Commissa A/10/A-00164		SEQUE	
	Nome File	A_10_A-00164-01	Denominazione Interno quadro elettrico lato B			Esecutore Pagani M.		19	
	Data	02/11/2010	Inside electrical panel side B						

XS1-L/D/M / XS2-D

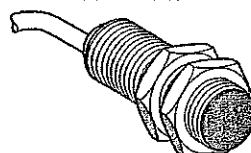
Telemecanique

Inductive proximity sensors
DéTECTEURS de proximité inductifs
Induktive NäHERUNGSSCHALTER
Detectors de proximidad inductivos
Interruttori di prossimità induttivi
Detetores de proximidade indutivos

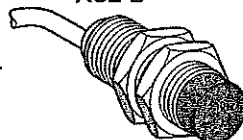
XS1-L



XS1-D/M



XS2-D



UL Listing :
Applicable on proximity switches bearing the UL Listing mark only.
Enclosure : Type 1

Overcurrent protection *

Conductor size	Maximum
AWG mm ²	Ampere rating
22 0.34	3
27 0.11	1

* Required on AC products

IEC947-5-2
CE

UL LISTED
8LO8
IND. CONT. EQ.

⚠ DANGER / PELIGRO / DANGER

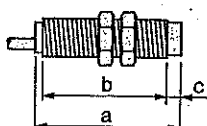
HAZARDOUS VOLTAGE
Disconnect all power before servicing equipment. Electric shock will result in death or serious injury.

TENSION PELIGROSA
Desenergice el equipo antes de realizarle servicio. Una descarga eléctrica podrá causar la muerte o lesiones serias.

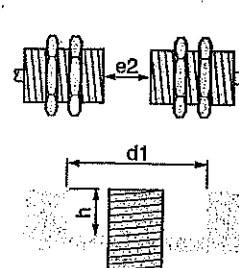
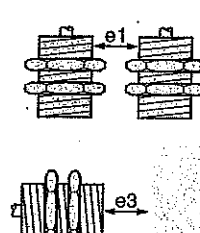
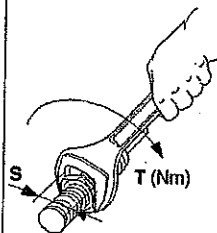
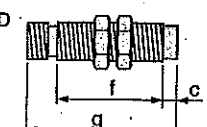
TENSION DANGEREUSE
Couper l'alimentation avant de travailler sur cet appareil. Une électrocution entraînera la mort ou des blessures graves.

Mechanical installation
Mise en œuvre mécanique
Mechanische Installation
Instalación mecánica
Messa in opera meccanica
Instalação mecânica

XS-.....



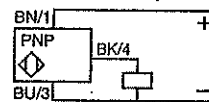
XS-.....D



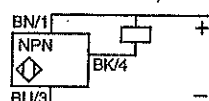
(mm)	Sn	a	b	c	g	f	S	T (Nm)	e1 ≥	e2 ≥	e3 ≥	d1 ≥	h ≥
XS1L 1.5	1.5	42	0	0	-	-	-	-	3	18	4.5	8	0
XS1D08 1.5	1.5	42	40.6	0	61.4	39.6	13	5	3	18	4.5	8	0
XS1D12 2	2	42.2	40	0	53	39.6	17	15	4	24	6	12	0
XS1D18 5	5	52.2	49.6	0	64	49.7	24	35	10	60	15	18	0
XS1D30 10	10	52.2	49.6	0	64	49.7	36	50	20	120	30	30	0
XS1M12 2	2	59	57.5	0	-	-	17	15	4	24	6	12	0
XS1M18 5	5	59	57.5	0	-	-	24	35	10	60	15	18	0
XS1M30 10	10	59	57.5	0	-	-	36	50	20	120	30	30	0
XS2D12 4	4	42.2	35.2	5	53	34.6	17	15	16	48	12	36	8
XS2D18 8	8	52.2	41.6	8	64	41.7	24	35	32	96	24	54	16
XS2D30 15	15	52.2	36.6	13	64	36.7	36	50	60	180	45	90	30

Electrical installation
Mise en œuvre électrique
Elektrische Installation
Instalación eléctrica
Messa in opera elettrica
Instalação eléctrica

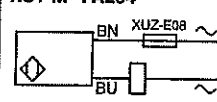
XS1-L/D**PA140*, XS2-D**PA140*



XS1-L/D**NA140*, XS2-D**NA140*



XS1-M**FA264



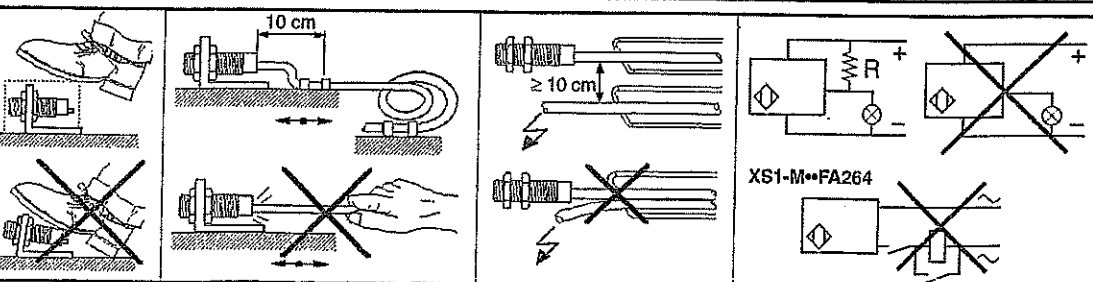
Without short circuit protection
Non protégés contre les courts-circuits
Ohne Kurzschlußschutz
No protección corto-circuito
Non protetto corto-circuito
Não protegidos contra curto-circuitos

Voltage limits (1)	10...30 V	~ 20...264 V
Load switching capacity (2)	0...100 mA, 0...50 mA (L06/M08)	5...300 mA, 5...200mA (M12)
Voltage drop (3)	≤ 3 V	≤ 7 V (M12), ≤ 4.5 V (M18/30)
Leakage current (4)	-	≤ 1.5 mA
Current consumption (5)	≤ 10 mA	-

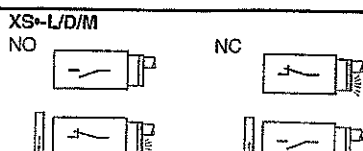
- (1) Limite de tension / Betriebsspannung / Límites de tensión / Limiti di tensione / Limites de tensão
- (2) Courant commuté / Schaltstrom / Intensidad conmutada / Corrente commutata / Corrente comutada
- (3) Tension de déchet / Spannungsfall (Ausgang durchgesteuert) / Tensión residual / Caduta di tensione / Tensão de defeito
- (4) Courant résiduel / Reststrom (Ausgang gesperrt) / Intensidad residual / Corrente residual / Corrente residual
- (5) Courant consommé / Leerlaufstrom / Intensidad consumida / Corrente consumata / Corrente consumida

BN	Brown	Brun	Braun	Marrón	Marron	Castanho
BU	Blue	Bleu	Blau	Azul	Blu	Azul
BK	Black	Noir	Schwarz	Negro	Nero	Preto

Installation precautions
Précautions de mise en œuvre
Vorsicht bei der Inbetriebnahme
Precaución de instalación
Consigli di messa in opera
Precaução de instalação



Indication
Signalisation
Funktionsanzeige
Señalización
Segnalazione
Sinalização



DATASENSOR

TL μ SERIES INSTRUCTION MANUAL

CONTROLS

OUTPUT LED

The red LED indicates the output status.

READY LED

During functioning, the green LED permanently ON indicates a normal operating condition; fast blinking indicates an output overload condition. See the "SETTING" paragraph for setup procedure indications.

MARK / BKGD PUSHBUTTON

The pushbutton activates the setup procedure.

INSTALLATION

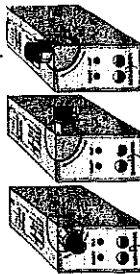
Operating distance is rated starting from the lens front face.

The M12 connector or cable exit can be rotated in three positions by loosening the locking screw.

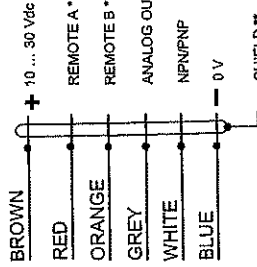
Tighten the locking screw when finished.

The beam direction may be changed swapping the cap and the lens.

Detecting marks on a reflective surface is improved adjusting the beam direction to 5° ... 20° from surface axis.



CONNECTIONS

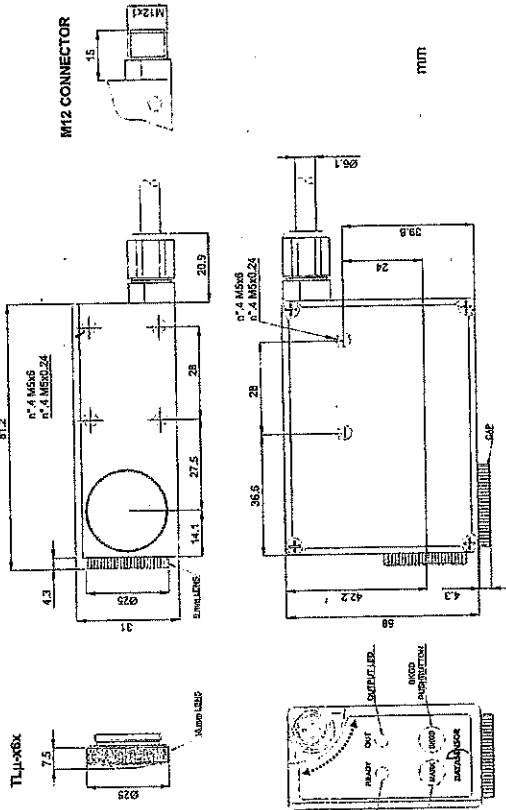


- * = Connect the unused REMOTE wires to 0 V.
- ** = The cable shield is insulated from the sensor housing; it is recommended to connect the shield to 0 V.

M12 CONNECTOR



DIMENSIONS



FUNCTION SELECTION

When selected (configuration section 1), the MARK and BKGD pushbuttons are enabled and connecting the REMOTE inputs (TL μ -xx1) to the power supply as shown in the table allows to select up to 4 different settings (formats). This is the factory setting.

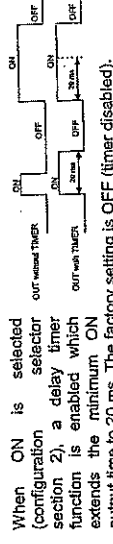
If a non-set format is selected, the sensor is disabled and the green LED flashes at a low rate.

A setting can be stored selecting a format and executing the procedure described in the "SETTING" paragraph.

When SET is selected (configuration section 1), the MARK and BKGD pushbuttons are disabled; the REMOTE inputs (TL μ -x1x) replace the pushbuttons functionality.

Connecting the REMOTE A and B inputs to the positive power supply rail is equivalent to pressing the MARK and BKGD pushbuttons respectively. Connect the unused inputs to 0V.

TIMING FUNCTION



SETTING

A two-step setup procedure adjusts the switching threshold and the LIGHT/DARK mode. Using the procedure given below the sensor output is set to be ON when a mark is detected.

1) Output ON state acquisition (MARK)

Place the target mark into the emission spot and press the MARK pushbutton until the green LED turns OFF.

The sensor acquires switching the red and green emissions; don't move the mark during this phase.

2) Output OFF state acquisition (BKGD)

Place the background into the emission spot and press the BKGD pushbutton; the green LED blinks once.

The sensor acquires switching the red and green emissions; don't move the background during this phase.

If the green LED lights permanently ON, a safe operation has been obtained; if it flashes at a low rate the setup procedure has failed due to insufficient contrast; repeat the procedure from the beginning.

DECLARATION OF CONFORMITY

We DATASENSOR S.p.A. declare under our sole responsibility that these products are conform to the 89/336 CEE, 73/23 CEE Directives and successive amendments.

WARRANTY

DATASENSOR S.p.A. warrants its products to be free from defects. DATASENSOR S.p.A. will repair or replace, free of charge, any product found to be defective during the warranty period of 36 months from the manufacturing date.

This warranty does not cover damage or liability deriving from the improper application of DATASENSOR products.

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40050 Monte S. Pietro - Bologna - Italy
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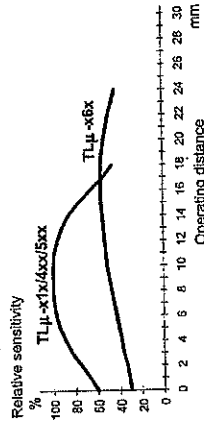
DATASENSOR S.p.A. cares for the environment: 100% recycled paper.
DATASENSOR S.p.A. reserves the right to make modifications and improvements without prior notification.

826000024 Rev.E

TECHNICAL DATA

Power supply:	10 ... 30 Vdc limit values: reverse polarity protection
Ripple:	2 Vpp max.
Current consumption (output current excluded):	80 mA max.
Output:	NPN or PNP: pull down/up resistance 10 k Ω (short-circuit protection)
Output current:	200 mA max.
Analog output:	0 ... 2 V $\pm$ 10% (white 90%); 5.5 V max; ripple 40 mV/pp max; output resistance 2.2 k Ω
Output saturation voltage:	1 V max. NPN versions / 2 V max. PNP versions
Response time:	50 μ s max. / 25 μ s max. (TL μ -4xx5xx)
Switching frequency:	10 kHz max. / 20 kHz max. (TL μ -4xx5xx)
Timing function:	20 ms minimum output ON
Indicators:	OUTPUT LED (RED) / READY LED (GREEN)
Setting:	by pushbuttons / by wires: 4 settings storage cable version
Retention data:	non volatile EEPROM memory
Operating temperature:	-10 ... 55 °C
Storage temperature:	-20 ... 70 °C
Electric shock protection:	Class 1
Operating distance:	9 mm (TL μ -x1x4xx5xx) / 16 mm (TL μ -x6x)
Minimum spot dimension:	1.5 x 5 mm (TL μ -x1x) / 2 x 7 mm (TL μ -x6x) / $\varnothing$ 3 mm (TL μ -4xx5xx)
Depth of field:	$\pm$ 3 mm (TL μ -x1x4xx5xx) / $\pm$ 4 mm (TL μ -x6x)
Emission type:	green (526 nm) / red (630 nm) with automatic selection or white (400-700 nm) according to EN 60947-5-2
Ambient light rejection:	0.5 mm amplitude, 10 ... 55 Hz frequency, in every axis (EN60068-2-6)
Vibration:	11 ms (approx. 30 G) 15 shock in every axis (EN60068-2-27) teach-in procedure
Shock resistance:	ZAMA
DARK/LIGHT selection:	IP67
Housing:	3 m shielded cable $\varnothing$ 6.1 mm / M12 4-pole connector
Protection class:	450 g. max. cable versions / 310 g. max. connector versions
Connections:	
Weight:	

DETECTION DIAGRAM



CONFIGURATION

A double selector and a switch are available removing the sensor side cover. The selector allows to enable the output timing function and choose the pushbuttons and REMOTE inputs operating mode; the switch allows to select the output type (NPN or PNP).

