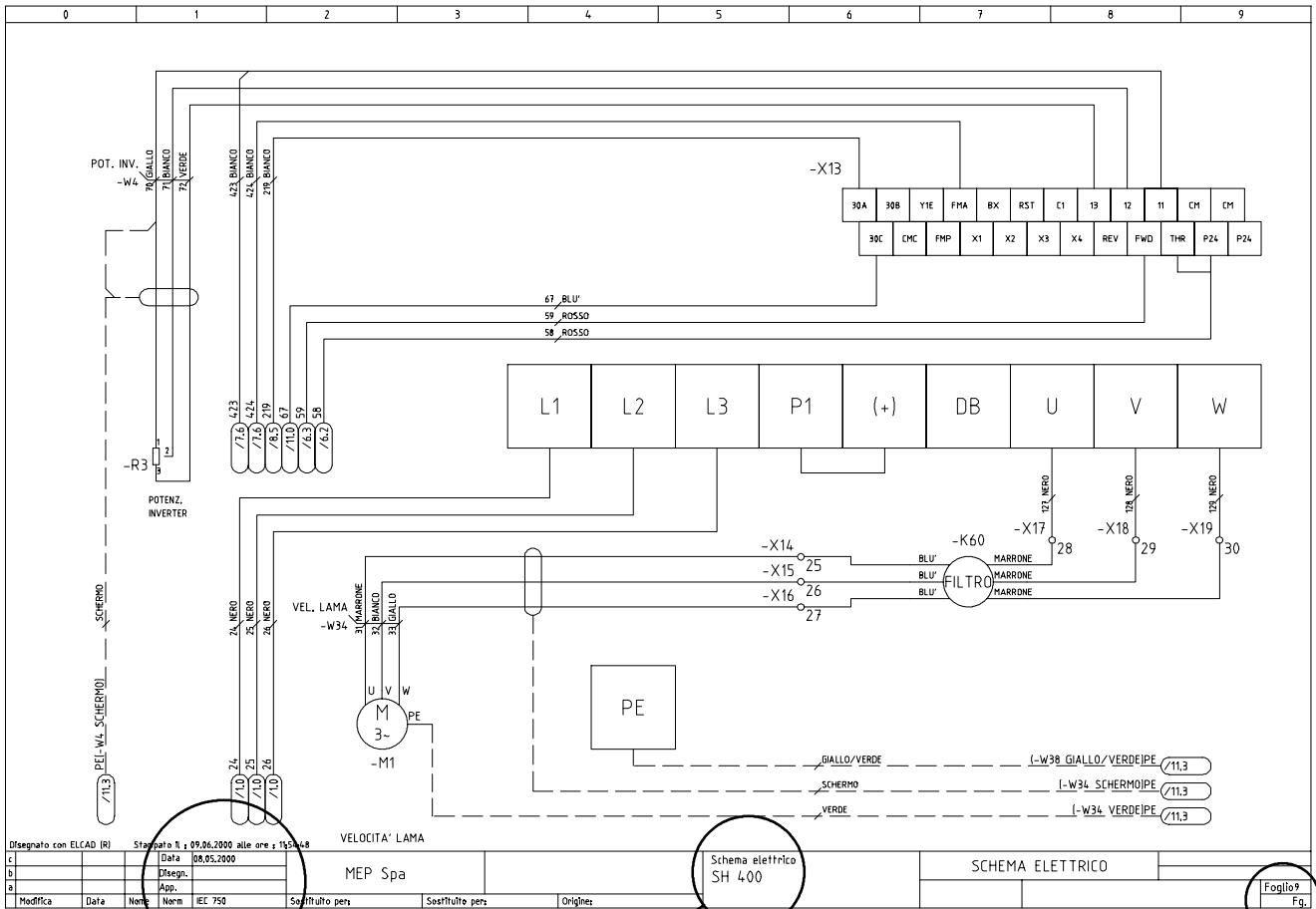


How to read the wiring diagrams

With the introduction of the new standardised wiring diagrams, the following gives an illustration of the way in which they have been drawn up.

Each sheet of the project contains a box which gives the following information:

The numbers indicate the columns into which the entire drawing is divided



Schema elettrico SH 400

Indications of the model of machine

Data	08.05.2000
Disegn.	MARIO ROSSI
App.	
Norm	IEC 750

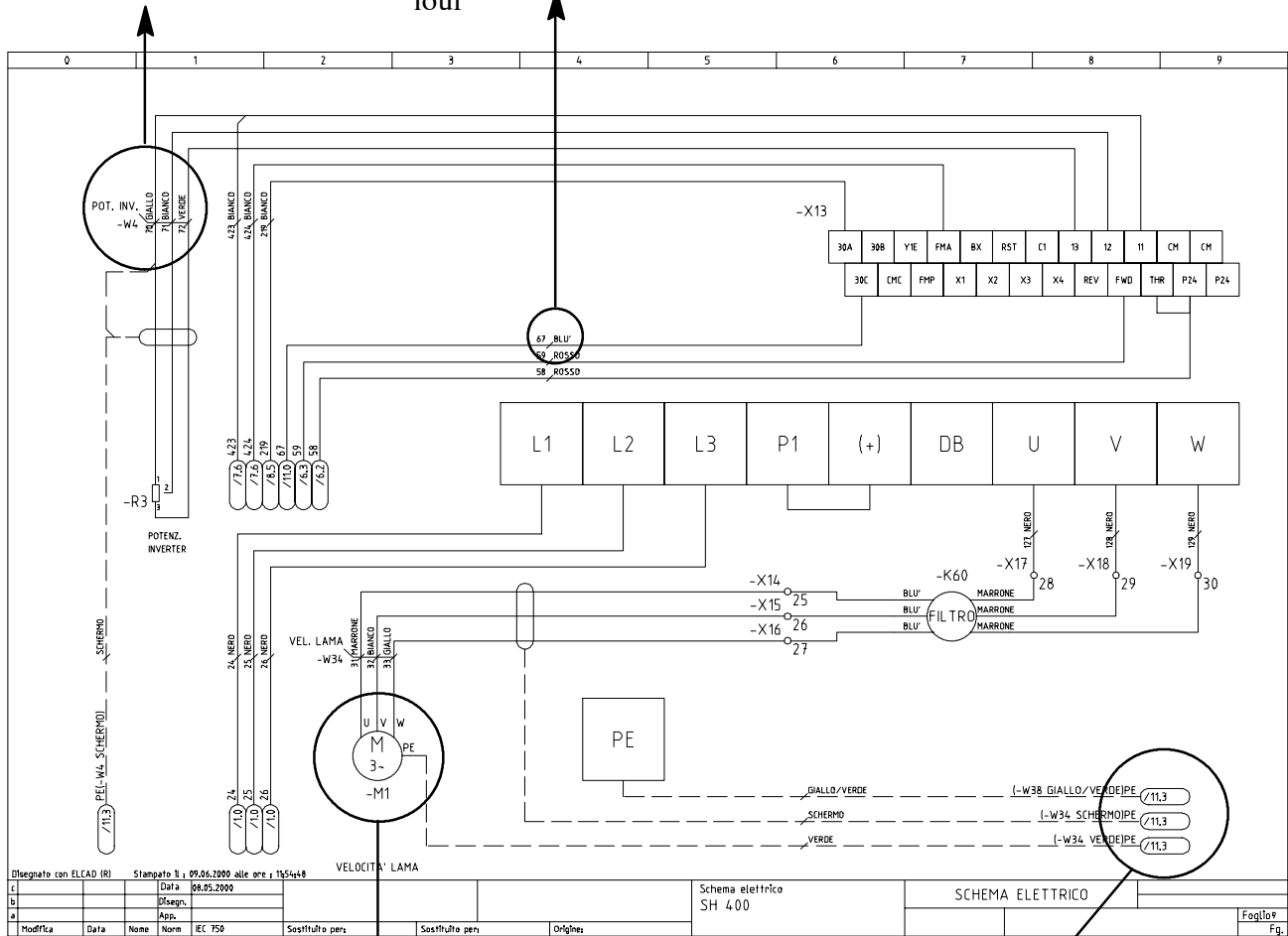
Indications of the date production started
 Identification of the designer
 Identification of the Reference Standard

Foglio 9
 Fg. Indication of the page number

Each component in the wiring diagram is identified by a unique alphanumeric identification code, in compliance with regulations:

The wire is identified by the code –W4

This symbol identifies the wire with its relative number and colour



The motor is identified by the code –M1

These symbols, known as potentials, are used to provide page references: the first number indicates the page to be referred to, the second number, after the dot, identifies the column on that page; example /11.8 indicates that the wire continues on page no. 11 in column 8

The pages following the wiring diagrams contain the following lists:

- components list (list of all components) and terminals list (list of all the terminals) with the following information:
 - ✓ in-house article code;
 - ✓ identification code;
 - ✓ reference, no. of the page and column on which it can be found;
 - ✓ description;
 - ✓ manufacturer.

ART. COD.	ID	PRES. REF	DESCRIPTION	MANUFACTURER
022.2151	-B1	/5.2	STRAIN GAUGE	DELTATEC

2. wires list (list of all wires) with the following information:

- ✓ in-house article code;
- ✓ identification code;
- ✓ description;
- ✓ section of wire (mm²);
- ✓ colour of wire;
- ✓ start: indicates the component (identification code and contact number) at which the wire starts;
- ✓ end: indicates the component (identification code and contact number) at which the wire ends; e.g.

CODE	CABLE	DESCRIPTION	SECTION	NO.	COLOUR	START		END	
022.0141	-W7	RESET+EMER-GENZA	0.50	317	BIANCO	-S3	4	-K10	14

In this example, wire no. 317 white, identified as -W7, starts from contact no. 4 on component -S3, and ends at contact no. 14 on component -K10.
Enclosed below is Appendix D2 to European Standard EN 60204-1

D2 - Letter codes used to designate the type of component

LETTER	TYPE OF COMPONENT	EXAMPLES	IDENTIFICATION OF THE APPLIANCE
A	Complex units	Laser Maser Regulator	A
B	Transducers converting a non electrical signal to an electrical signal and vice versa	Transistor amplifier IC amplifier Magnetic amplifier Valve amplifier Printed circuit board Drawer Rack	AD AJ AM AV AP AT AR
C	Capacitors		C
D	Binary operators, timing devices, storage devices	Digital integrated circuits and devices: Delay line Bistable element Monostable element Recorder Magnetic memory Tape or disk recorder	D
E	Various materials	Devices not specified in this table	E
F	Protective Devices	Lightning protectors Arrestors	F
		Instant action current threshold protector Delayed action current threshold protector Instant and delayed action current threshold protector Fuse Voltage threshold protector	FA FR FS FU FV

LETTER	TYPE OF COMPONENT	EXAMPLES	IDENTIFICATION OF THE APPLIANCE
G	Generators, feeders	Rotating generators Crystal oscillators	G
		Accumulator battery Rotating or static frequency converter Power feeder	GB GF GS
H	Signaling Devices	Buzzer	HA
		Optical signal, indicator light device	HL
J			
K	Relays, Contactors	Instant all or nothing relays or instant contactors	KA
		Bistable relays or interdependent contactors	KL
		(All or nothing contactors with mechanical contact or permanent magnet etc.)	KM
		Contactors	KP
		Polarised relays	KR
Reed relays	KT		
All or nothing timed relays (timers)			
L	Inductors, reactors	Inductor Stop coil Reactor	L
M	Motors		M
N	Analogue integrated circuits	Operational amplifiers Hybrid analog/digital appliances	N
P	Measurement equipment, test devices	Indicator, recorder and integrator measurement devices Signal generators	P
Q	Power circuit switching appliances	Automatic switch	QF
		Engine saver switch	QM
		Knife switch	QS
R	Resistors	Fixed or variable resistor (rheostat)	R
S	Command or control devices	Selector or switch	SA
		Button (including electronic proximity switch)	SB
		Numerical all or nothing sensors (single step) of mechanical and electronic type:	SL
		– Liquid level sensor	SP
		– Pressure sensor	
		Position sensor (including proximity)	SQ
		– Rotation sensor	SR
– Temperature probe	ST		

LETTER	TYPE OF COMPONENT	EXAMPLES	IDENTIFICATION OF THE APPLIANCE
T	Transformers	Current transformer Control circuit supply transformer Power transformer Magnetic stabiliser Voltage transformer	TA TC TM TS TV
U	Modulators, converters	Discriminator Demodulator Frequency converter Coder Converter Inverter Telegraphic repeater	U
V	Electronic pipes, semiconductors	Electronic pipe Gas discharge pipe Diode Transistor Thyristor	V
W	Transmission lines, wave guides, antennas	Conductor Cable Bar Wave guide Wave guide directional coupler Dipole Parabolic antenna	W
X	Terminals, sockets, plugs	Connector bar Test plug Plug Socket Terminal connector band	XB XJ XP XS XT
Y	Electrically operated mechanical appliances	Electromagnet Electromagnetic brake Electromagnetic clutch Magnetic table spindle Electromagnetic valve	YA YB YC YH YV
Z	Transformers, impedance adapters, equalizers, band limiters	Line equalizer Compressor Crystal filter	Z



HYDMECH CANADA CORP

1079 PARKINSON ROAD
 P.O. BOX 1659
 WOODSTOCK, ON
 N4S 0A9
 CANADA
 Phone. 1-877-237-0914



ECN Number:	02468		
Project description	208V 60Hz OPTION		
Schematic #	S20A-7-208-60-1		
Manufacturer (company)	HYDMECH CANADA CORP		
Path			
Project name	S20A-7-208-60-1		
Make	S20A		
Type			
Place of installation			
Responsible for project	WA		
Part feature			
Created on	02/01/22	by (short name)	WA
Viewed on	03/15/22	by (short name)	wabdou
		Number of pages	13

208V 60Hz OPTION
S20A-7-208-60-1
ECN:02468

HYDMECH CANADA CORP
P.O. BOX 1659
WOODSTOCK, ON

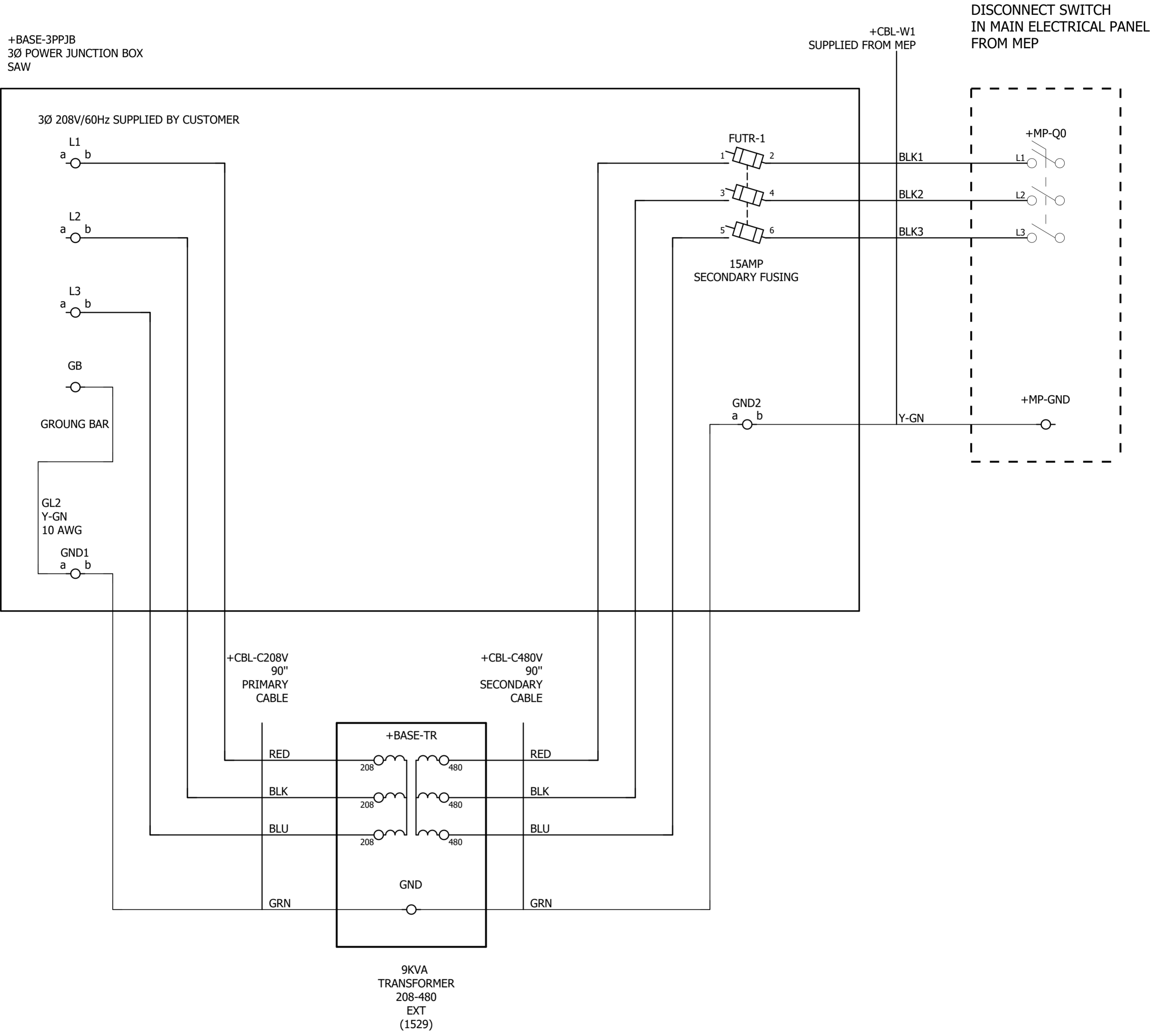


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Modification date 07/09/21
Modified by jhayre

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Parts usage indication

Part number	Qty	Designation	DT	Cable/Wire LENGH (Inch)	Order number	Function
448.9583	1	Box, Junction, 3 Phase PWR IN	+BASE-3PPJB		448.9583	3Ø POWER JUNCTION BOX
391938	1	Label Danger - Hazardous Voltage Inside	+BASE-3PPJB		391938	=
391450	1	Label, Voltage, 208V	+BASE-3PPJB		44-405	=
371205	1	Fuse Block, 3-Pole, 600V, 30A	+BASE-3PPJB-FUTR-1		USM3	15AMP
371380	3	Fuse, Time Delay, 15 Amp, 600V	+BASE-3PPJB-FUTR-1		ATDR15	=
600009241	1	Neutra/ Grounding Bar 4-14AWG,	+BASE-3PPJB-GB:GB		NA-401	GROUNG BAR
390860	1	Bolt Socket Head Cap 10-24 X 0.75	+BASE-3PPJB-GB:GB		1123146	=
372805	1	Earth terminal	+BASE-3PPJB-TB:GND2		57.510.9055.0	
372755	1	Terminal Markers, Marcom	+BASE-3PPJB-TB:GND2		9705AL/6/10/6	
372908	1	Transformer Auto 9Kva 208V - 480V	+BASE-TR			9KVA TFMR

208V 60Hz OPTION
S20A-7-208-60-1
ECN:02468

HYDMECH CANADA CORP
P.O. BOX 1659
WOODSTOCK, ON



Parts list:
Modification date 03/10/22
Modified by wabdou

Check Form DIN_TNP_30_HMG Wire LGH R2

from	Cable Wire Length x mm ² (AWG) color 	Wire des./definition	Parts From, Wire, To	to	More info Jumper Conductor Page Conductor End LENGTH (Inches)
+BASE-3PPJB-GB:GB	GL2	Y-GN 10 AWG Conductor / wire	373155	+BASE-3PPJB-TB:GND1:a	1515 T/T 18"

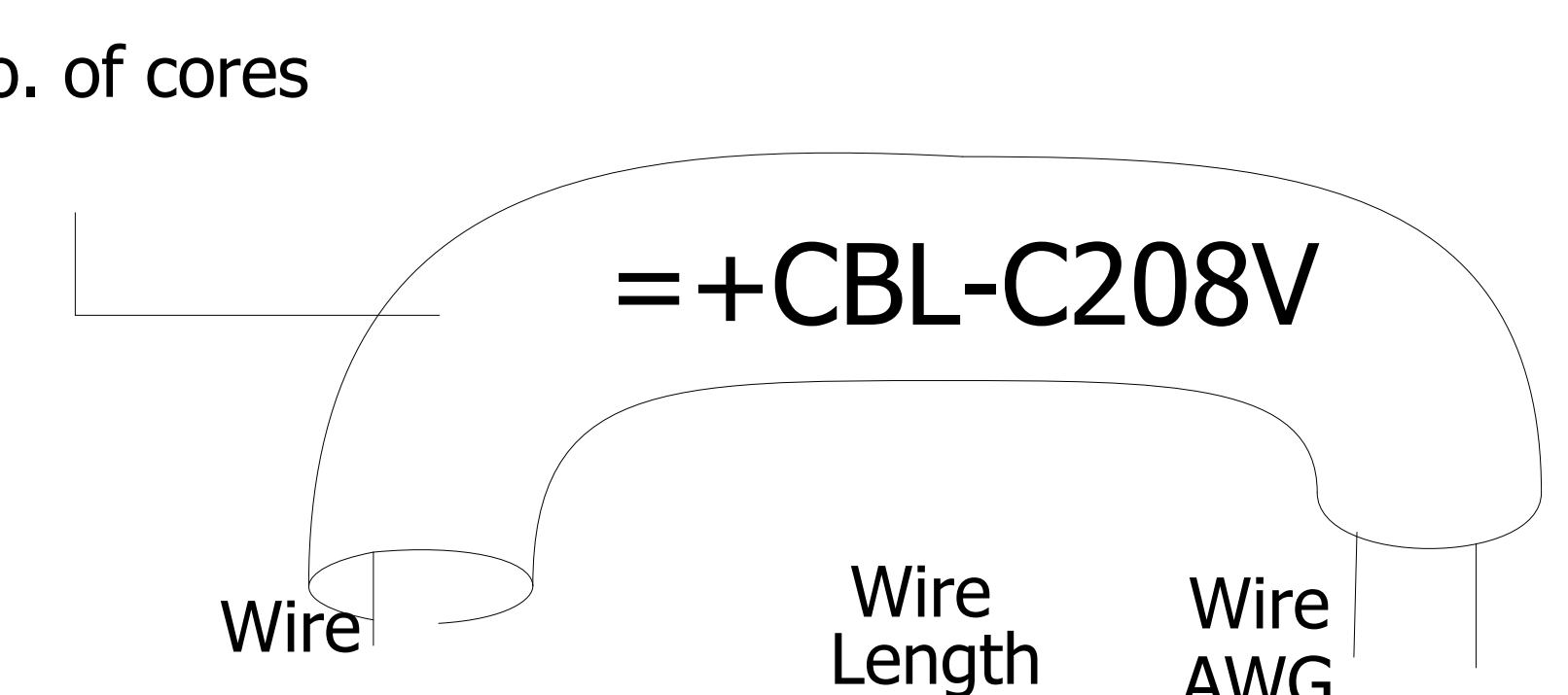
Cable Termination Sheet

ERP #	QTY	ORDER Number	DESCRIPTION
819083	1	601004	Cable, 10 Awg, 4 Con, 600V, 90°C
370490	1	S2134	Fitting, 3/4 mnpt liquid tight conn.
392987	1	911372	Nut, 3/4 in. NPT, Black
392365	2	308-LE3	Label Cord 0.75 x 1.5
371460	2	HSPO-250-6-C	Heat Shrink, Blue

ERP #	QTY	ORDER Number	DESCRIPTION

Length Remark **PRIMARY CABLE**
90"

ERP #	MP Conductor Length	MP Conductor End	Target designation from	Wire Colour	Wire #	Wire Length	Wire AWG	Wire Colour	Target design. to	Component Length	Function text
	10 AWG			GNYE				GNYE			
	10 AWG			BK 1				BK 1			
	10 AWG			BK 2				BK 2			
	10 AWG			BK 3				BK 3			
	0.00 AWG	T/T	+BASE-3PPJB-TB:L2:b	BLK		90"		BLK	+BASE-TR		
	0.00 AWG	T/T	+BASE-3PPJB-TB:L3:b	BLU		90"		BLU	+BASE-TR		
	0.00 AWG	T/R	+BASE-3PPJB-TB:GND1:b	GRN		90"		GRN	+BASE-TR:GND		
	0.00 AWG	T/T	+BASE-3PPJB-TB:L1:b	RED		90"		RED	+BASE-TR		



INSTRUCTIONS
 ADD BLUE HEATSHRINK ON WHITE CONDUCTOR

UNLESS OTHER WISE STATED, CONDUCTORS TERMINATING IN THE CONTROL PANEL ARE TO BE LABELLED THE SAME AS PER CABLE NUMBER



Cable Termination Sheet

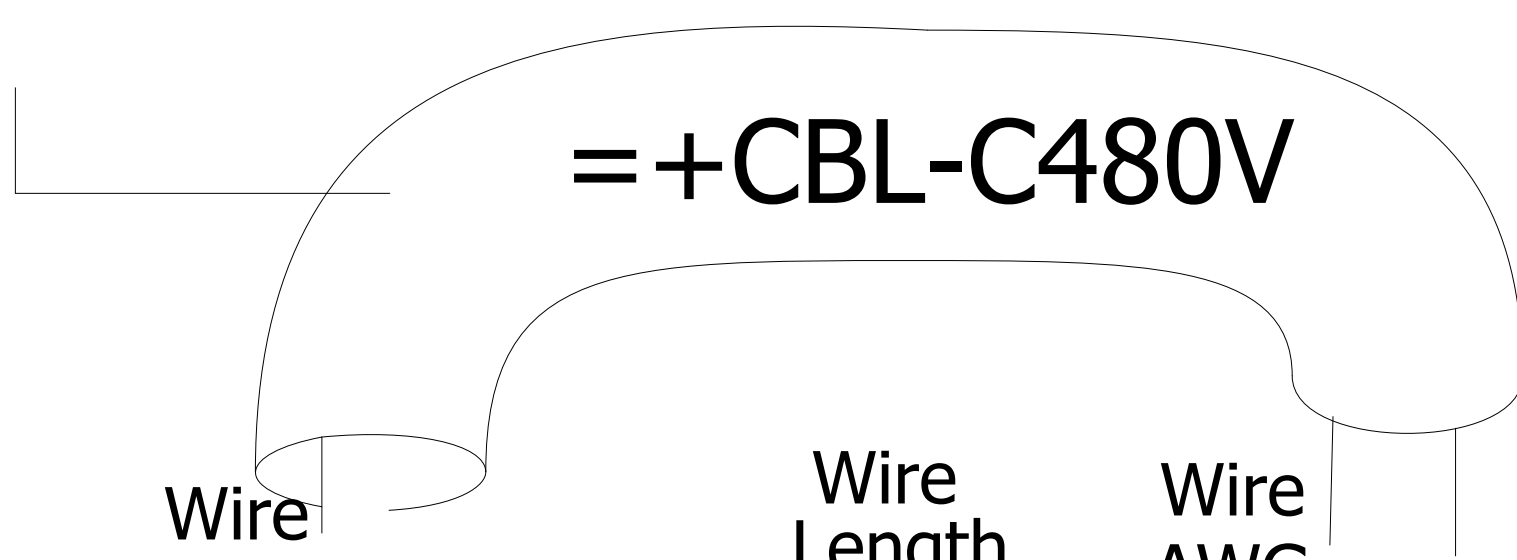
ERP #	QTY	ORDER Number	DESCRIPTION
370205	1	86984	Cable, Yellow Jacket 12-4C Sto
370490	1	S2134	Fitting, 3/4 mnpt liquid tight conn.
392987	1	911372	Nut, 3/4 in. NPT, Black
392365	2	308-LE3	Label Cord 0.75 x 1.5
371460	2	HSPO-250-6-C	Heat Shrink, Blue

ERP #	QTY	ORDER Number	DESCRIPTION

Length Remark **SECONDARY CABLE**
90"

ERP #	MP Conductor Length	MP Conductor End	Target designation from	Wire Colour	Wire #	Wire Length	Wire AWG	Wire Colour	Target design. to	Component Length	Function text
	0.00 AWG	T/T	+BASE-TR	BLK		90"		BLK	+BASE-3PPJB-FUTR-1:3		
	0.00 AWG	T/T	+BASE-TR	RED		90"		RED	+BASE-3PPJB-FUTR-1:1		
	0.00 AWG	T/T	+BASE-TR	BLU		90"		BLU	+BASE-3PPJB-FUTR-1:5		
	0.00 AWG	R/T	+BASE-TR:GND	GRN		90"		GRN	+BASE-3PPJB-TB:GND2:a		

No. of cores
4



H.Mann
Connector

INSTRUCTIONS

ADD BLUE HEATSHRINK ON WHITE CONDUCTOR

UNLESS OTHER WISE STATED, CONDUCTORS TERMINATING IN THE CONTROL PANEL ARE TO BE LABELLED THE SAME AS PER CABLE NUMBER



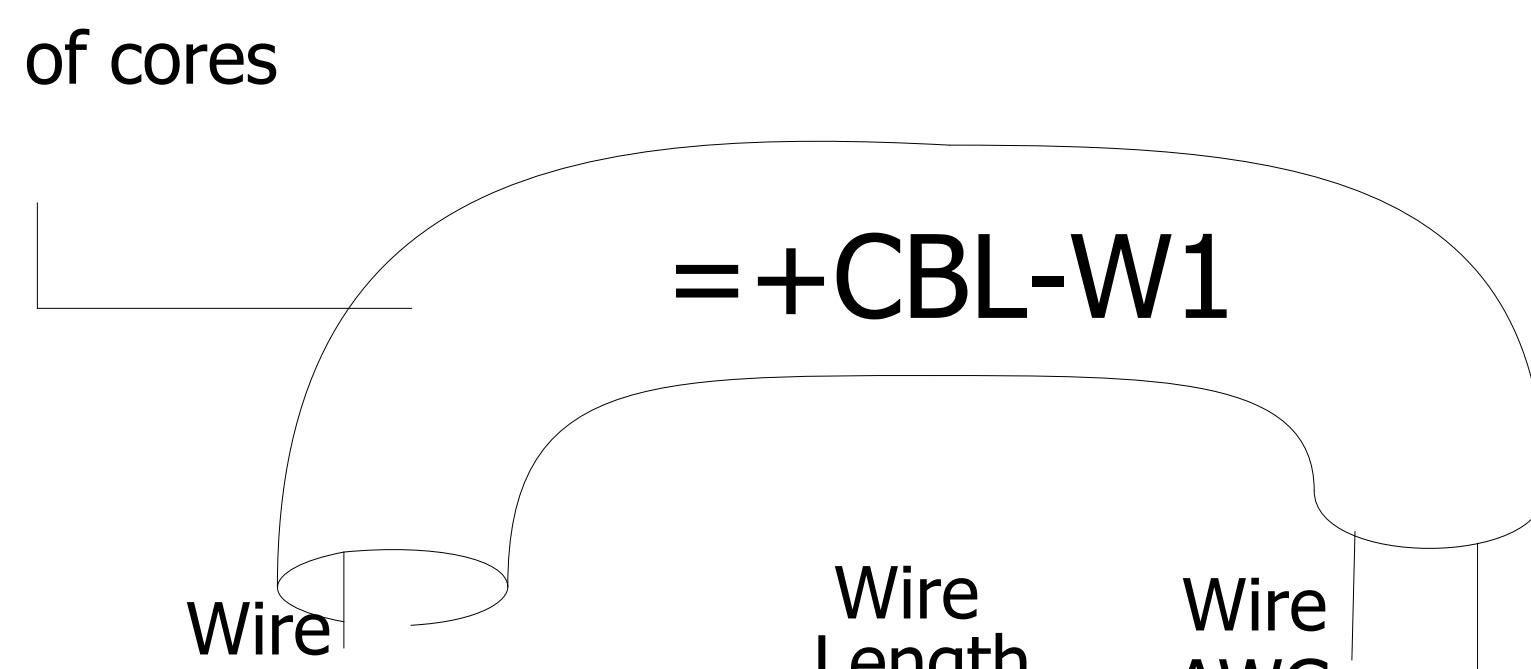
Cable Termination Sheet

ERP #	QTY	ORDER Number	DESCRIPTION

ERP #	QTY	ORDER Number	DESCRIPTION

Length Remark **SUPPLIED FROM MEP**

ERP #	MP Conductor Length	MP Conductor End	Target designation from	Wire Colour	Wire #	Wire Length	Wire AWG	Wire Colour	Target design. to	Component Length	Function text
		T/T	+MP-Q0:L1	BLK1	4			BLK1	+BASE-3PPJB-FUTR-1:2		
		T/T	+MP-Q0:L2	BLK2				BLK2	+BASE-3PPJB-FUTR-1:4		
		T/T	+MP-Q0:L3	BLK3				BLK3	+BASE-3PPJB-FUTR-1:6		
		T/T	+MP-GND	Y-GN				Y-GN	+BASE-3PPJB-TB:GND2:b		



H.Mann Connector

INSTRUCTIONS

-

UNLESS OTHER WISE STATED, CONDUCTORS TERMINATING IN THE CONTROL PANEL ARE TO BE LABELLED THE SAME AS PER CABLE NUMBER



Cable overview

DIN_KBU_35

Cable	ERP #	Length	Cond.	DESCRIPTION	COMMENTS
+CBL-C208V	819083	90"	4	Cable, 10 Awg, 4 Con, 600V, 90'C Oil Resistant	PRIMARY CABLE
+CBL-C480V	370205	90"	4	Cable, Yellow Jacket 12-4C Sto	SECONDARY CABLE
+CBL-W1			4		SUPPLIED FROM MEP

Next page
1700



Summarized parts list

F02_002_en_US-R1-HMG

SAP number	Order number	QTY/SAW (Each)	Designation	Type number	-	Total Lengh (Inches)	Supplier
448.9583	448.9583	1	Box, Junction, 3 Phase PWR IN	448.9583			MEP
370205	86984	1	Cable, Yellow Jacket 12-4C Sto	86984		90	
370490	S2134	2	Fitting, 3/4 mnpt liquid tight conn.	S2134			Graybar
371205	USM3	1	Fuse Block, 3-Pole, 600V, 30A	USM3			Guillevin International Inc.
371380	ATDR15	3	Fuse, Time Delay, 15 Amp, 600V	ATDR15			Guillevin International Inc.
371460	HSPO-250-6-C	4	Heat Shrink, Blue	HSPO-250-6-C		8	Guillevan
372755	9705AL/6/10/6	1	Terminal Markers, Marcom	9705AL/6/10/6			Wieland Electric
372805	57.510.9055.0	1	Earth terminal	WKN10 SL/U /V0			WIE
372908		1	Transformer Auto 9Kva 208V - 480V	MAT9H19			Marcus Transformer of Can.
373155	10 AWG/19 T90 G/Y	1	Wire, 10 Awg / 19, T90, Green-Yellow	10 AWG/19 T90 G/Y		18	Graybar
390860	1123146	1	Bolt Socket Head Cap 10-24 X 0.75	A1-.19 X .75			FASTEN
391450	44-405	1	Label, Voltage, 208V	44-405			
391938	391938	1	Label Danger - Hazardous Voltage Inside	391938			
392365	308-LE3	4	Label Cord 0.75 x 1.5	308-LE3			
392375	LAT-15-361-5	1	Label,Self Laminating Vinyl, 0.5"x0.75"	LAT-15-361-5			Graybar
392987	911372	2	Nut, 3/4 in. NPT, Black	911372			Graybar
819083	601004	1	Cable, 10 Awg, 4 Con, 600V, 90°C	ÖLFLEX® 190		90	Guillevin International Inc.
600009241	NA-401	1	Neutra/ Grounding Bar 4-14AWG,	NA-401			Guillevin International Inc.

Next page





HYDMECH CANADA CORP

1079 PARKINSON ROAD
 P.O. BOX 1659
 WOODSTOCK, ON
 N4S 0A9
 CANADA
 Phone. 1-877-237-0914



ECN Number:	02468		
Project description	240V 60Hz OPTION		
Schematic #	S20A-7-240-60-1		
Manufacturer (company)	HYDMECH CANADA CORP		
Path			
Project name	S20A-7-240-60-1		
Make	S20A		
Type			
Place of installation			
Responsible for project	WA		
Part feature			
Created on	02/02/22	by (short name)	WA
Viewed on	03/15/22	by (short name)	wabdou
		Number of pages	13



240V 60Hz OPTION
S20A-7-240-60-1
ECN:02468

HYDMECH CANADA CORP
P.O. BOX 1659
WOODSTOCK, ON

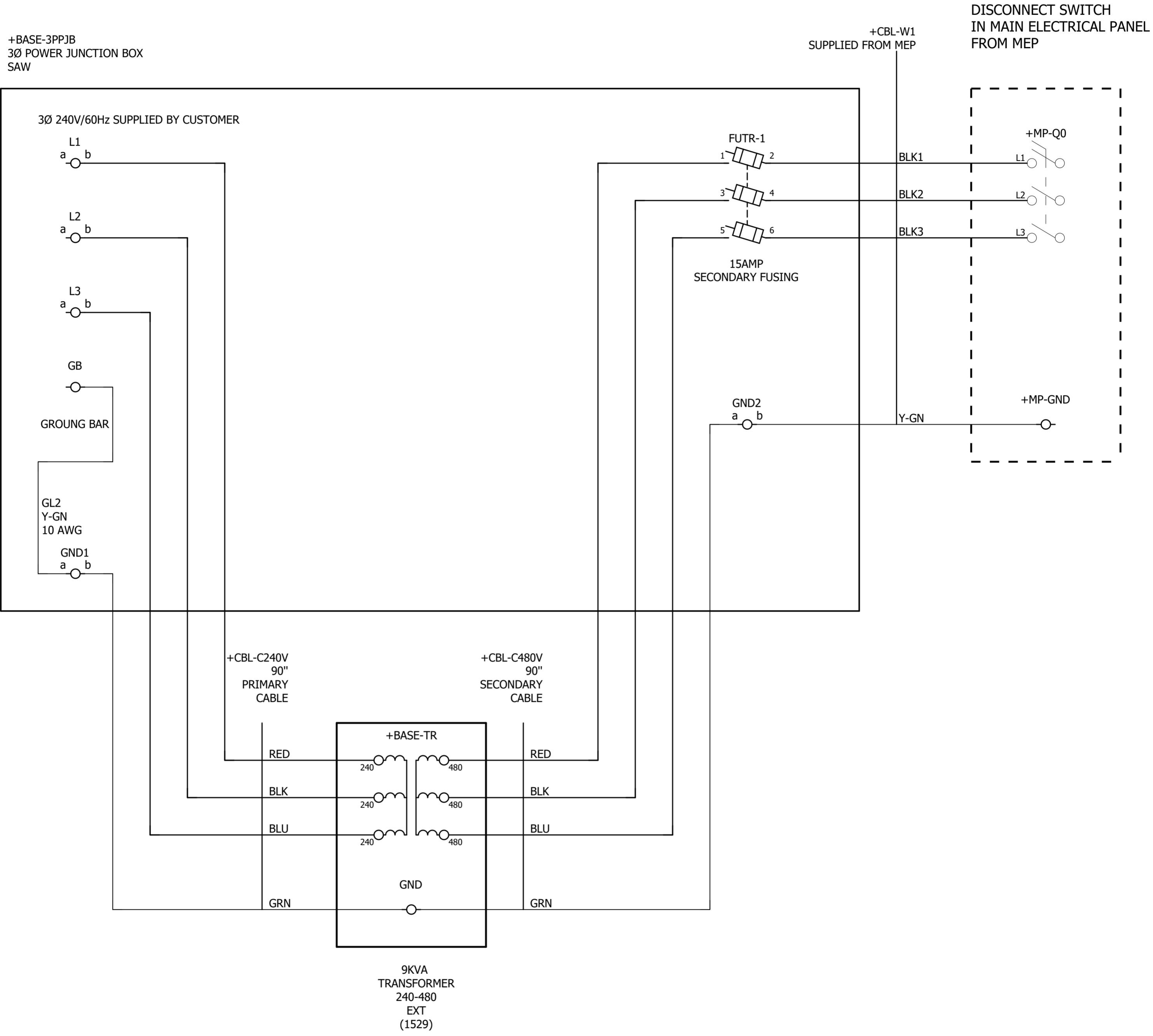


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Modification date 07/09/21
Modified by jhayre

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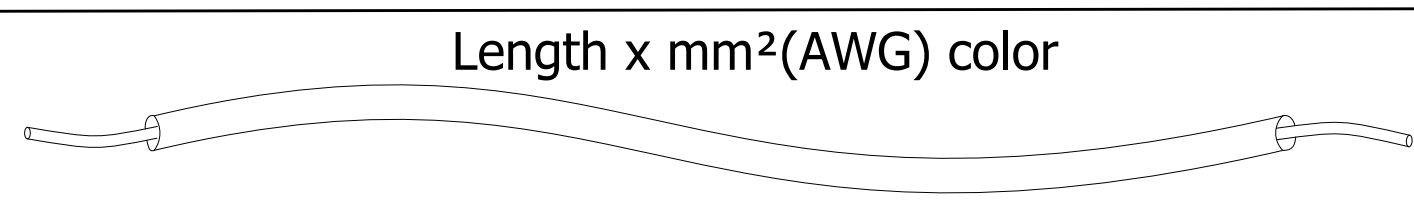
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from

to

Cable	Wire	Wire des./definition	Parts From, Wire, To
	GL2	10 AWG Y-GN Conductor / wire	373155



More info				
Jumper	Conducto	Page	Conductor End	LENGTH (Inches)
		1515	T/T	18"



from	Cable	Wire	Wire des./definition	Parts From, Wire, To	to	More info.			Page	Conductor End	LENGTH (Inches)
			Length x mm ² (AWG) color			Jumper	Conductor				
+MP-Q0:L1	+CBL-W1		BLK1 Conductor / wire		+BASE-3PPJB-FUTR-1:2			1509	T/T		
+BASE-3PPJB-FUTR-1:1	+CBL-C480V		RED 0.00 AWG Conductor / wire		+BASE-TR 9KVA TRANSFORMER 240-480			1509	T/T	90"	
+BASE-3PPJB-TB:L1:b	+CBL-C240V		RED 0.00 AWG Conductor / wire		+BASE-TR 9KVA TRANSFORMER 240-480			1509	T/T	90"	
+MP-Q0:L2	+CBL-W1		BLK2 Conductor / wire		+BASE-3PPJB-FUTR-1:4			1509	T/T		
+BASE-3PPJB-FUTR-1:3	+CBL-C480V		BLK 0.00 AWG Conductor / wire		+BASE-TR 9KVA TRANSFORMER 240-480			1509	T/T	90"	
+MP-Q0:L3	+CBL-W1		BLK3 Conductor / wire		+BASE-3PPJB-FUTR-1:6			1509	T/T		
+BASE-3PPJB-FUTR-1:5	+CBL-C480V		BLU 0.00 AWG Conductor / wire		+BASE-TR 9KVA TRANSFORMER 240-480			1509	T/T	90"	
+BASE-3PPJB-TB:L2:b	+CBL-C240V		BLK 0.00 AWG Conductor / wire		+BASE-TR 9KVA TRANSFORMER 240-480			1511	T/T	90"	
+BASE-3PPJB-TB:L3:b	+CBL-C240V		BLU 0.00 AWG Conductor / wire		+BASE-TR 9KVA TRANSFORMER 240-480			1513	T/T	90"	
+MP-GND	+CBL-W1		Y-GN Conductor / wire		+BASE-3PPJB-TB:GND2:b			1516	T/T		
+BASE-3PPJB-TB:GND2:a	+CBL-C480V		GRN 0.00 AWG Conductor / wire		+BASE-TR:GND			1516	R/T	90"	
+BASE-3PPJB-TB:GND1:b	+CBL-C240V		GRN 0.00 AWG Conductor / wire		+BASE-TR:GND			1520	T/R	90"	



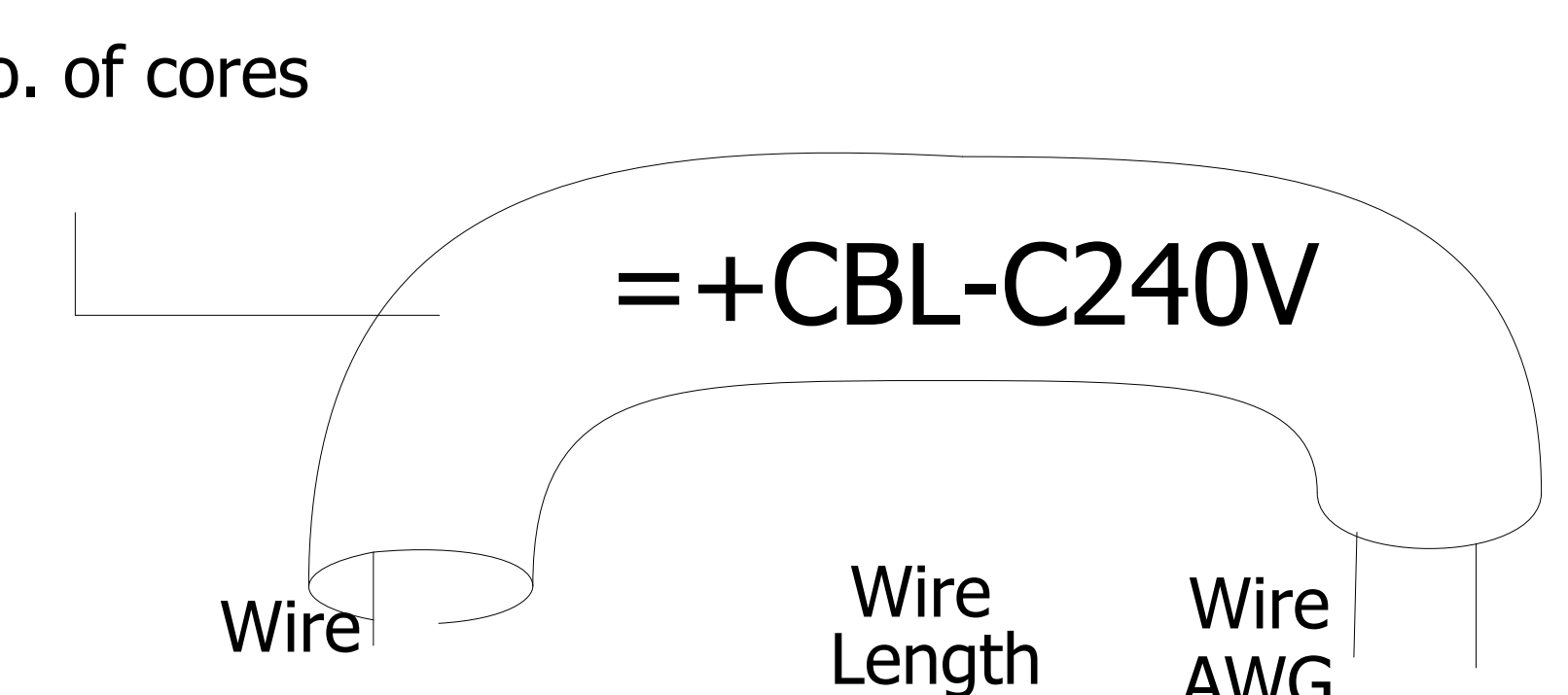
Cable Termination Sheet

ERP #	QTY	ORDER Number	DESCRIPTION
819083	1	601004	Cable, 10 Awg, 4 Con, 600V, 90°C
370490	1	S2134	Fitting, 3/4 mnpt liquid tight conn.
392987	1	911372	Nut, 3/4 in. NPT, Black
392365	2	308-LE3	Label Cord 0.75 x 1.5
371460	2	HSPO-250-6-C	Heat Shrink, Blue

ERP #	QTY	ORDER Number	DESCRIPTION

Length Remark **PRIMARY CABLE**
90"

ERP #	MP Conductor Length	MP Conductor End	Target designation from	Wire Colour	Wire #	Wire Length	Wire AWG	Wire Colour	Target design. to	Component Length	Function text
	10 AWG			GNYE				GNYE			
	10 AWG			BK 1				BK 1			
	10 AWG			BK 2				BK 2			
	10 AWG			BK 3				BK 3			
	0.00 AWG	T/T	+BASE-3PPJB-TB:L2:b	BLK		90"		BLK	+BASE-TR		
	0.00 AWG	T/T	+BASE-3PPJB-TB:L3:b	BLU		90"		BLU	+BASE-TR		
	0.00 AWG	T/R	+BASE-3PPJB-TB:GND1:b	GRN		90"		GRN	+BASE-TR:GND		
	0.00 AWG	T/T	+BASE-3PPJB-TB:L1:b	RED		90"		RED	+BASE-TR		



INSTRUCTIONS
ADD BLUE HEATSHRINK ON WHITE CONDUCTOR

UNLESS OTHER WISE STATED, CONDUCTORS TERMINATING IN THE CONTROL PANEL ARE TO BE LABELLED THE SAME AS PER CABLE NUMBER



H.Mann
 Connector

Cable Termination Sheet

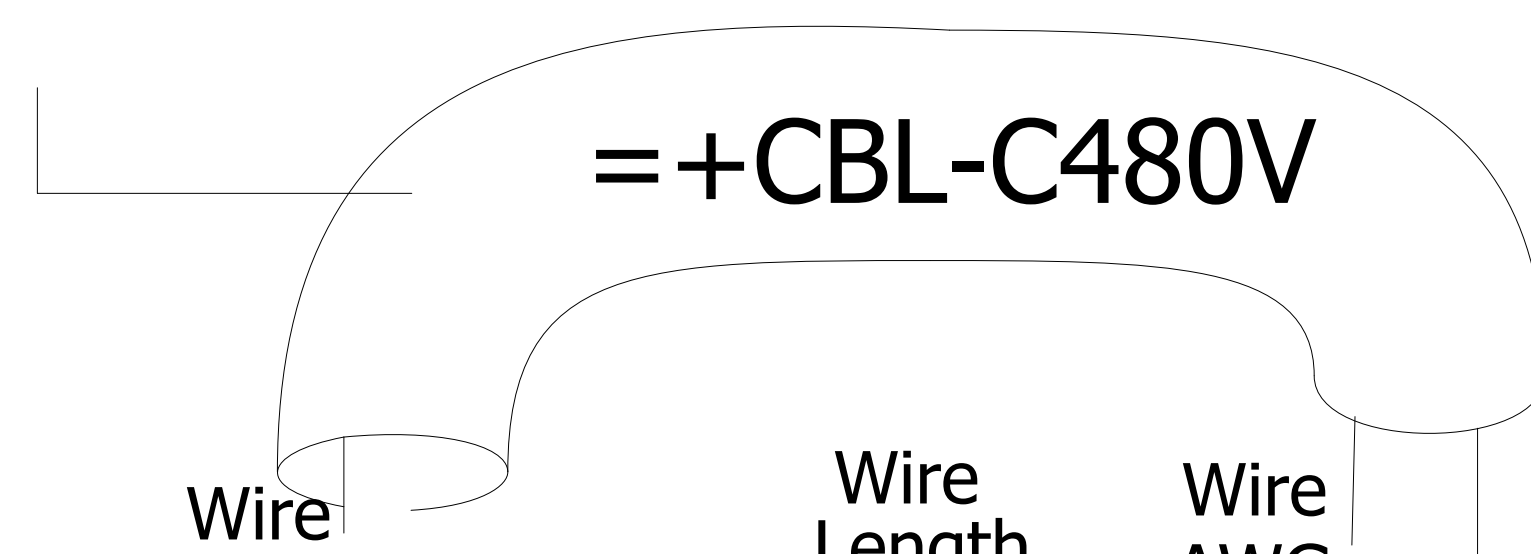
ERP #	QTY	ORDER Number	DESCRIPTION
370205	1	86984	Cable, Yellow Jacket 12-4C Sto
370490	1	S2134	Fitting, 3/4 mnpt liquid tight conn.
392987	1	911372	Nut, 3/4 in. NPT, Black
392365	2	308-LE3	Label Cord 0.75 x 1.5
371460	2	HSPO-250-6-C	Heat Shrink, Blue

ERP #	QTY	ORDER Number	DESCRIPTION

Length Remark **SECONDARY CABLE**
90"

ERP #	MP Conductor Length	MP Conductor End	Target designation from	Wire Colour	Wire #	Wire Length	Wire AWG	Wire Colour	Target design. to	Component Length	Function text
	0.00 AWG	T/T	+BASE-TR	BLK		90"		BLK	+BASE-3PPJB-FUTR-1:3		
	0.00 AWG	T/T	+BASE-TR	RED		90"		RED	+BASE-3PPJB-FUTR-1:1		
	0.00 AWG	T/T	+BASE-TR	BLU		90"		BLU	+BASE-3PPJB-FUTR-1:5		
	0.00 AWG	R/T	+BASE-TR:GND	GRN		90"		GRN	+BASE-3PPJB-TB:GND2:a		

No. of cores
4



H.Mann Connector

INSTRUCTIONS

ADD BLUE HEATSHRINK ON WHITE CONDUCTOR

UNLESS OTHER WISE STATED, CONDUCTORS TERMINATING IN THE CONTROL PANEL ARE TO BE LABELLED THE SAME AS PER CABLE NUMBER



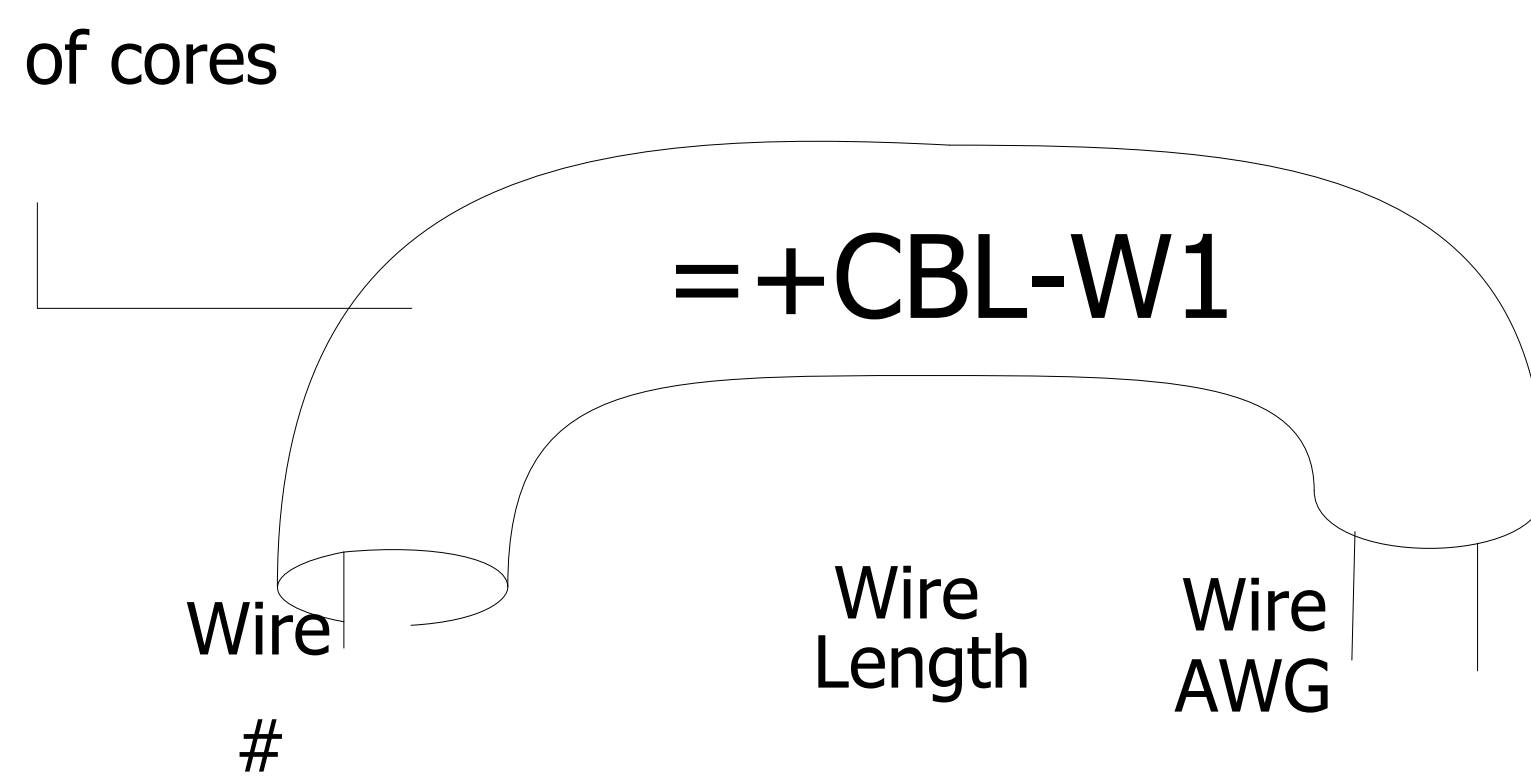
Cable Termination Sheet

ERP #	QTY	ORDER Number	DESCRIPTION

ERP #	QTY	ORDER Number	DESCRIPTION

Length Remark **SUPPLIED FROM MEP**

ERP #	MP Conductor Length	MP Conductor End	Target designation from	Wire Colour	Wire #	Wire Length	Wire AWG	Wire Colour	Target design. to	Component Length	Function text
		T/T	+MP-Q0:L1	BLK1	4			BLK1	+BASE-3PPJB-FUTR-1:2		
		T/T	+MP-Q0:L2	BLK2				BLK2	+BASE-3PPJB-FUTR-1:4		
		T/T	+MP-Q0:L3	BLK3				BLK3	+BASE-3PPJB-FUTR-1:6		
		T/T	+MP-GND	Y-GN				Y-GN	+BASE-3PPJB-TB:GND2:b		



INSTRUCTIONS
-

UNLESS OTHER WISE STATED, CONDUCTORS TERMINATING IN THE CONTROL PANEL ARE TO BE LABELLED THE SAME AS PER CABLE NUMBER



H.Mann Connector

Cable overview

DIN_KBU_35

Cable	ERP #	Length	Cond.	DESCRIPTION	COMMENTS
+CBL-C240V	819083	90"	4	Cable, 10 Awg, 4 Con, 600V, 90'C Oil Resistant	PRIMARY CABLE
+CBL-C480V	370205	90"	4	Cable, Yellow Jacket 12-4C Sto	SECONDARY CABLE
+CBL-W1			4		SUPPLIED FROM MEP

Next page
1700



Summarized parts list

F02_002_en_US-R1-HMG

SAP number	Order number	QTY/SAW (Each)	Designation	Type number	-	Total Lengh (Inches)	Supplier
448.9583	448.9583	1	Box, Junction, 3 Phase PWR IN	448.9583			MEP
370205	86984	1	Cable, Yellow Jacket 12-4C Sto	86984		90	
370490	S2134	2	Fitting, 3/4 mnpt liquid tight conn.	S2134			Graybar
371205	USM3	1	Fuse Block, 3-Pole, 600V, 30A	USM3			Guillevin International Inc.
371380	ATDR15	3	Fuse, Time Delay, 15 Amp, 600V	ATDR15			Guillevin International Inc.
371460	HSPO-250-6-C	4	Heat Shrink, Blue	HSPO-250-6-C		8	Guillevan
372755	9705AL/6/10/6	1	Terminal Markers, Marcom	9705AL/6/10/6			Wieland Electric
372805	57.510.9055.0	1	Earth terminal	WKN10 SL/U /V0			WIE
372978	MAT9B3	1	Transformer, Auto, 9KVA, 480V / 240V, 60Hz	MAT9B3			Marcus Transformer of Can.
373155	10 AWG/19 T90 G/Y	1	Wire, 10 Awg / 19, T90, Green-Yellow	10 AWG/19 T90 G/Y		18	Graybar
390860	1123146	1	Bolt Socket Head Cap 10-24 X 0.75	A1-.19 X .75			FASTEN
391460	44-310	1	Label, Voltage, 240V	44-310			
391938	391938	1	Label Danger - Hazardous Voltage Inside	391938			
392365	308-LE3	4	Label Cord 0.75 x 1.5	308-LE3			
392375	LAT-15-361-5	1	Label,Self Laminating Vinyl, 0.5"x0.75"	LAT-15-361-5			Graybar
392987	911372	2	Nut, 3/4 in. NPT, Black	911372			Graybar
819083	601004	1	Cable, 10 Awg, 4 Con, 600V, 90°C	ÖLFLEX® 190		90	Guillevin International Inc.
600009241	NA-401	1	Neutra/ Grounding Bar 4-14AWG,	NA-401			Guillevin International Inc.

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HYDMECH CANADA CORP

1079 PARKINSON ROAD
 P.O. BOX 1659
 WOODSTOCK, ON
 N4S 0A9
 CANADA
 Phone. 1-877-237-0914



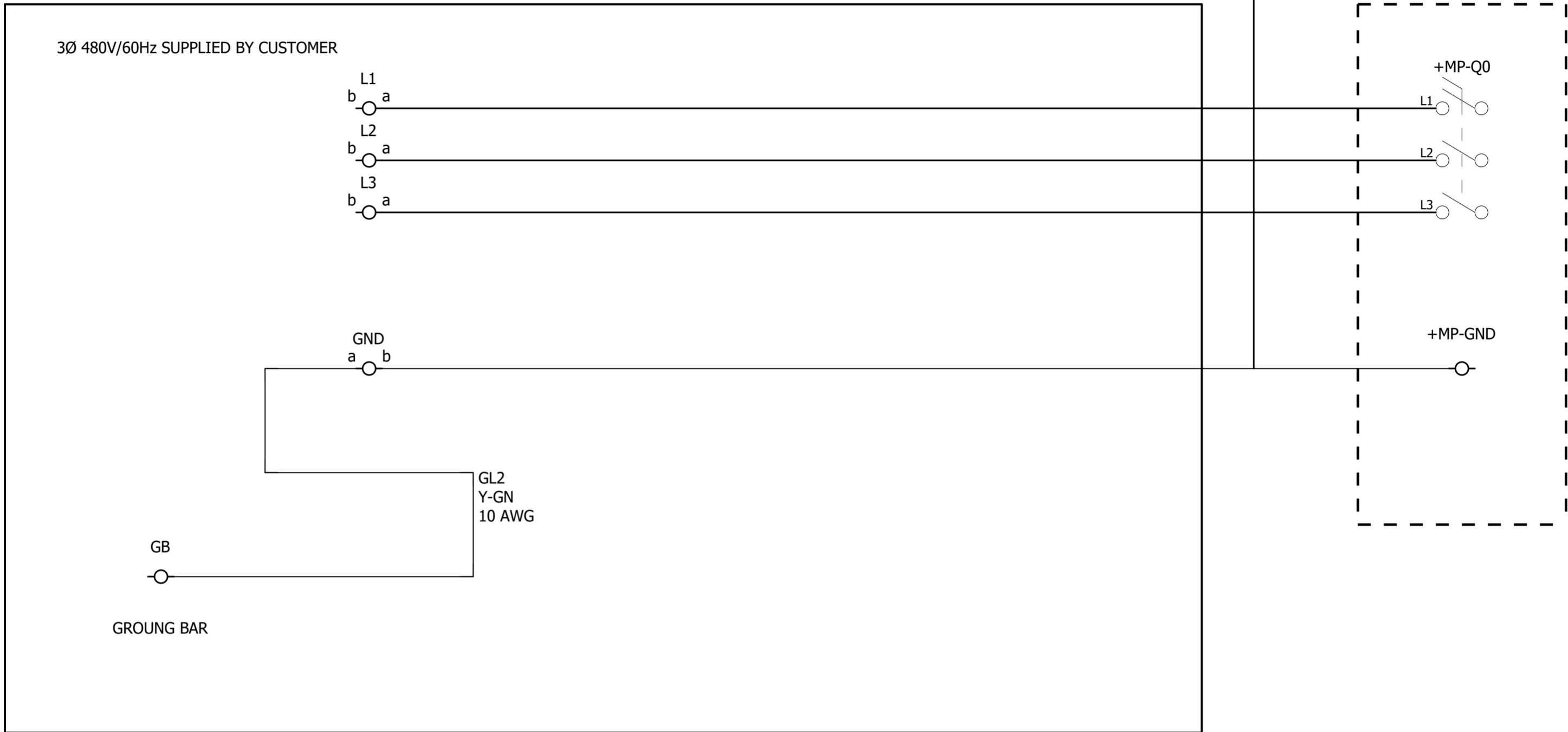
ECN Number:	02468
Project description	S-Series CSA kit 480V option
Drawing#	60009445
Manufacturer (company)	HYDMECH CANADA CORP
EPLAN project name	60009445
Saw	S23A
3 Ø Voltage/Hz	480V/60Hz
Control voltage	NA
Option	3 Ø4 80v OPTIONS
Special	NA
Responsible for project	WA
Modified	04/28/22
by (short name)	wabdou
Number of pages	7

Project: S-Series CSA kit 480V option	Dwg#: 60009445 3Ø/Hz: 480V/60Hz Control: NA	Saw: S23A	HYDMECH CANADA CORP P.O. BOX 1659 WOODSTOCK, ON CANADA		Title Page
ECN: 02468	OLD#: V18A120-7-480-60-1				Modification date: 02/18/22 Modified by: jhayre
					Plot Fm: Frame_generator_HMG Rev C Form F26_001_en_US - HMG-R6
					Page 1

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+BASE-3PPJB
3Ø POWER JUNCTION BOX
SAW

+CBL-W1
DISCONNECT SWITCH
IN MAIN ELECTRICAL PANEL
FROM MEP




Summarized parts list

F02_002_en_US-R1-HMG

SAP number	Order number	QTY/SAW (Each)	Designation	Type number	-	Total Lengh (Inches)	Supplier
373155	10 AWG/19 T90 G/Y	1	Wire, 10 Awg / 19, T90, Green-Yellow	10 AWG/19 T90 G/Y		8	Graybar
390860	1123146	1	Bolt Socket Head Cap 10-24 X 0.75	A1-.19 X .75			FASTEN
392375	LAT-15-361-5	1	Label,Self Laminating Vinyl, 0.5"x0.75"	LAT-15-361-5			Graybar
600009241	NA-401	1	Neutra/ Grounding Bar 4-14AWG,	NA-401			Guillevin International Inc.

Next page

Project: S-Series CSA kit 480V option ECN: 02468	Dwg#: 60009445 3Ø/Hz: 480V/60Hz Control: NA	Saw: S23A	HYDMECH CANADA CORP P.O. BOX 1659 WOODSTOCK, ON CANADA		Summarized parts list : 373155 - 60009241	
		OLD#: V18A120-7-480-60-1			Modification date: 04/27/22 Modified by: wabdou	Plot Fm: Form F02_002_en_US-R1-HMG



HYDMECH CANADA CORP

1079 PARKINSON ROAD
 P.O. BOX 1659
 WOODSTOCK, ON
 N4S 0A9
 CANADA
 Phone. 1-877-237-0914



ECN Number:	02468		
Project description	575V 60Hz OPTION		
Schematic #	S20A-7-575-60-1		
Manufacturer (company)	HYDMECH CANADA CORP		
Path			
Project name	S20A-7-575-60-1		
Make	S20A		
Type			
Place of installation			
Responsible for project	WA		
Part feature			
Created on	02/03/22	by (short name)	WA
Viewed on	03/10/22	by (short name)	wabdou
		Number of pages	13



575V 60Hz OPTION
S20A-7-575-60-1
ECN:02468

HYDMECH CANADA CORP
P.O. BOX 1659
WOODSTOCK, ON



Blank

Modification date 07/09/21
Modified by jhayre

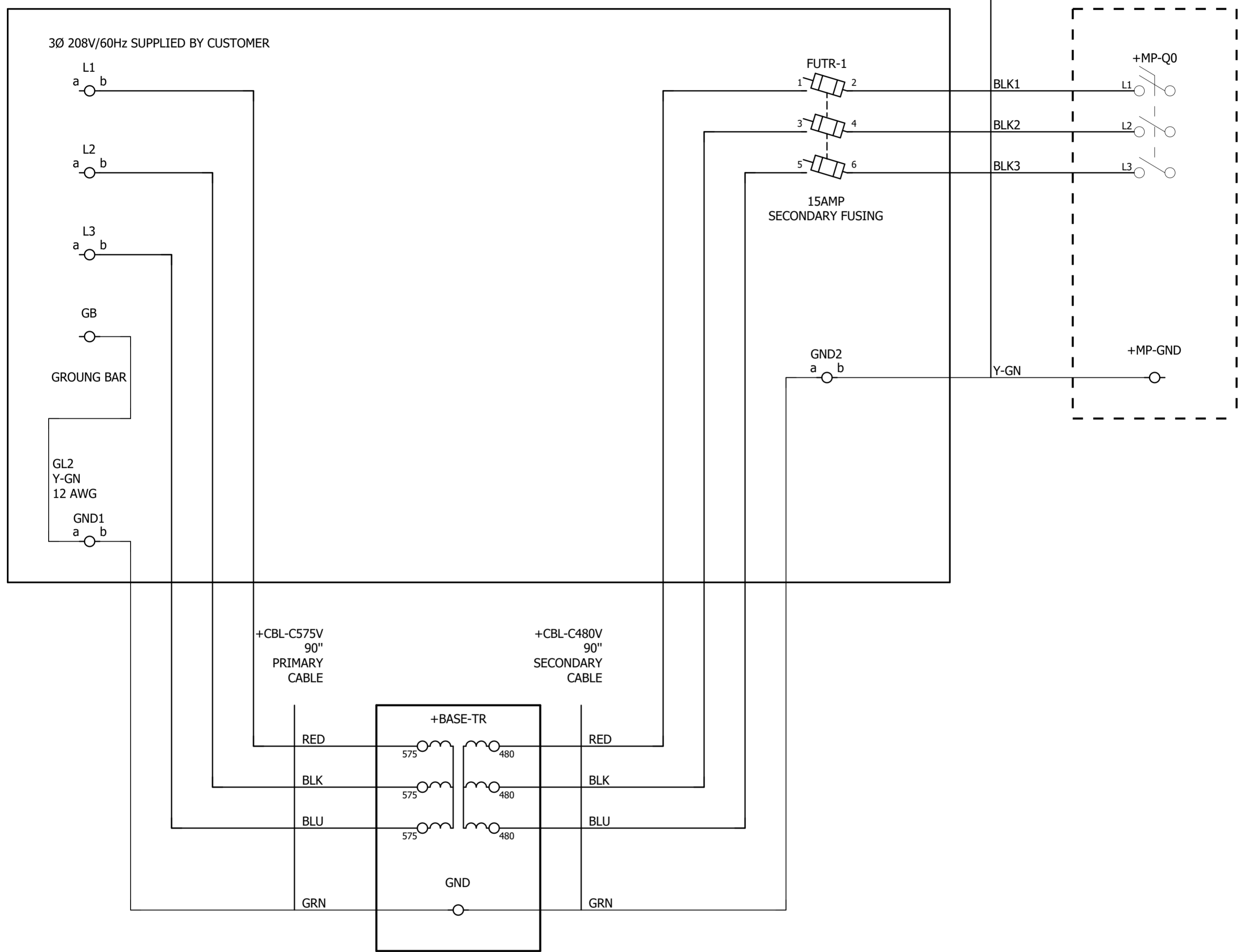
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Form

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+BASE-3PPJB
3Ø POWER JUNCTION BOX
SAW

+CBL-W1
SUPPLIED FROM MEP

DISCONNECT SWITCH
IN MAIN ELECTRICAL PANEL
FROM MEP



9KVA
TRANSFORMER
575-480
EXT
(1529)



Parts usage indication

Part number	Qty	Designation	DT	Cable/Wire LENGTH (Inch)	Order number	Function
392375	1	Label, Self Laminating Vinyl, 0.5"x0.75"			LAT-15-361-5	
373160	1	Wire, 12 Awg / 19, T90, Green-Yellow		18"	12 AWG/19 T90 G/Y	

575V 60Hz OPTION
S20A-7-575-60-1
ECN: 02468

HYDMECH CANADA CORP
P.O. BOX 1659
WOODSTOCK, ON



Parts list:

Modification date 03/10/22
Modified by wabdou

Check Form DIN_TNP_30_HMG Wire LGH R2

Parts usage indication

Part number	Qty	Designation	DT	Cable/Wire LENGH (Inch)	Order number	Function
370205	1	Cable, Yellow Jacket 12-4C Sto	+CBL-C480V	90"	86984	SECONDARY
370490	1	Fitting, 3/4 mnpt liquid tight conn.	+CBL-C480V		S2134	=
392987	1	Nut, 3/4 in. NPT, Black	+CBL-C480V		911372	=
392365	2	Label Cord 0.75 x 1.5	+CBL-C480V		308-LE3	=
371460	2	Heat Shrink, Blue	+CBL-C480V	4"	HSPO-250-6-C	=
370205	1	Cable, Yellow Jacket 12-4C Sto	+CBL-C575V	90"	86984	PRIMARY
370490	1	Fitting, 3/4 mnpt liquid tight conn.	+CBL-C575V		S2134	=
392987	1	Nut, 3/4 in. NPT, Black	+CBL-C575V		911372	=
392365	2	Label Cord 0.75 x 1.5	+CBL-C575V		308-LE3	=
371460	2	Heat Shrink, Blue	+CBL-C575V	4"	HSPO-250-6-C	=

575V 60Hz OPTION
S20A-7-575-60-1
ECN:02468

HYDMECH CANADA CORP
P.O. BOX 1659
WOODSTOCK, ON



Parts list:
Modification date 02/14/22
Modified by wabdou

Check.
Form DIN_TNP_30_HMG Wire LGH R2

from	Cable	Wire	Wire des./definition		Parts From, Wire, To	to	More info.				
			Length x mm ² (AWG) color	Y-GN 12 AWG Conductor / wire			373160	Jumper	Conductor	Page	Conductor End
+BASE-3PPJB-GB:GB		GL2				+BASE-3PPJB-TB:GND1:a			1515	T/T	18"

575V 60Hz OPTION
S20A-7-575-60-1
ECN:02468

HYDMECH CANADA CORP
P.O. BOX 1659
WOODSTOCK, ON



Wire list:
Modification date 03/10/22
Modified by wabdou
Check.
Form DIN_VRL_70_5_Inch_P8 R3

from	Length x mm ² (AWG) color			Parts From, Wire, To	to	More info				
	Cable	Wire	Wire des./definition			Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
+MP-Q0:L1	+CBL-W1		BLK1 Conductor / wire		+BASE-3PPJB-FUTR-1:2			1509	T/T	
+BASE-3PPJB-FUTR-1:1	+CBL-C480V	0.00 AWG	RED Conductor / wire		+BASE-TR 9KVA TRANSFORMER 575-480			1509	T/T	90"
+BASE-3PPJB-TB:L1:b	+CBL-C575V	0.00 AWG	RED Conductor / wire		+BASE-TR 9KVA TRANSFORMER 575-480			1509	T/T	90"
+MP-Q0:L2	+CBL-W1		BLK2 Conductor / wire		+BASE-3PPJB-FUTR-1:4			1509	T/T	
+BASE-3PPJB-FUTR-1:3	+CBL-C480V	0.00 AWG	BLK Conductor / wire		+BASE-TR 9KVA TRANSFORMER 575-480			1509	T/T	90"
+MP-Q0:L3	+CBL-W1		BLK3 Conductor / wire		+BASE-3PPJB-FUTR-1:6			1509	T/T	
+BASE-3PPJB-FUTR-1:5	+CBL-C480V	0.00 AWG	BLU Conductor / wire		+BASE-TR 9KVA TRANSFORMER 575-480			1509	T/T	90"
+BASE-3PPJB-TB:L2:b	+CBL-C575V	0.00 AWG	BLK Conductor / wire		+BASE-TR 9KVA TRANSFORMER 575-480			1511	T/T	90"
+BASE-3PPJB-TB:L3:b	+CBL-C575V	0.00 AWG	BLU Conductor / wire		+BASE-TR 9KVA TRANSFORMER 575-480			1513	T/T	90"
+MP-GND	+CBL-W1		Y-GN Conductor / wire		+BASE-3PPJB-TB:GND2:b			1516	T/T	
+BASE-3PPJB-TB:GND2:a	+CBL-C480V	0.00 AWG	GRN Conductor / wire		+BASE-TR:GND			1516	R/T	90"
+BASE-3PPJB-TB:GND1:b	+CBL-C575V	0.00 AWG	GRN Conductor / wire		+BASE-TR:GND			1520	T/R	90"

575V 60Hz OPTION
S20A-7-575-60-1
ECN:02468

HYDMECH CANADA CORP
P.O. BOX 1659
WOODSTOCK, ON



Wire list:	Modification date 02/11/22 Modified by wabdou	Check. Form DIN_VRL_70_5_Inch_P8 R3	Page 706
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Cable Termination Sheet

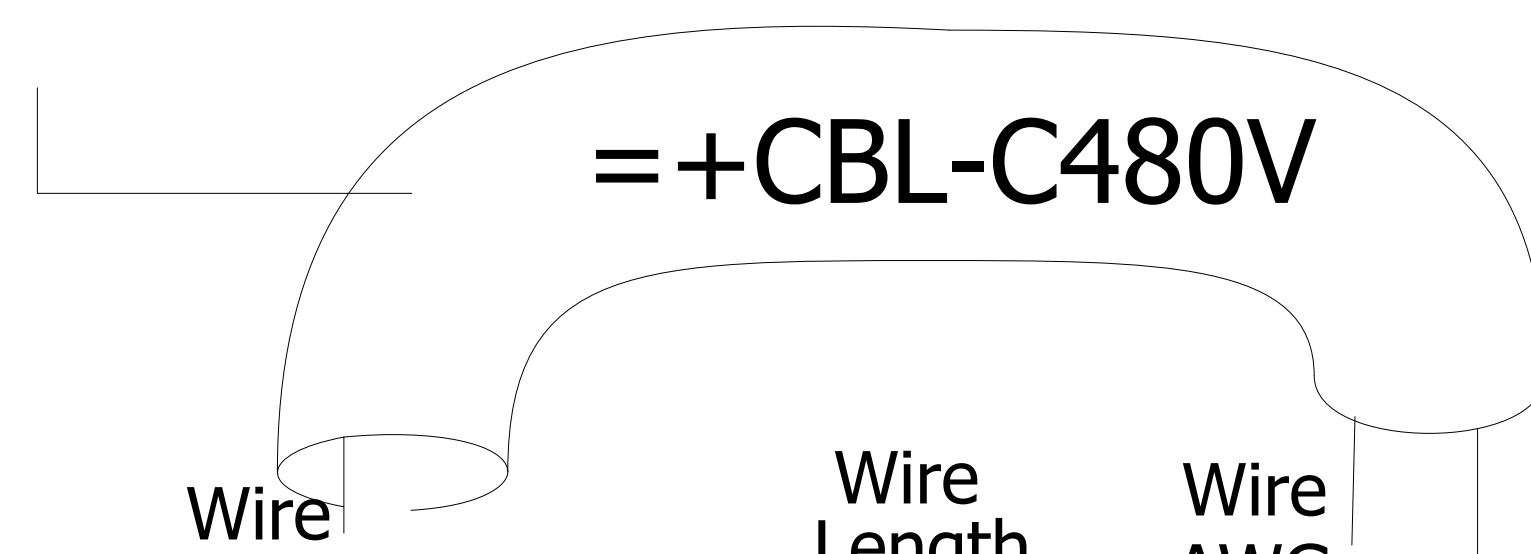
ERP #	QTY	ORDER Number	DESCRIPTION
370205	1	86984	Cable, Yellow Jacket 12-4C Sto
370490	1	S2134	Fitting, 3/4 mnpt liquid tight conn.
392987	1	911372	Nut, 3/4 in. NPT, Black
392365	2	308-LE3	Label Cord 0.75 x 1.5
371460	2	HSPO-250-6-C	Heat Shrink, Blue

ERP #	QTY	ORDER Number	DESCRIPTION

Length Remark **SECONDARY CABLE**
90"

ERP #	MP Conductor Length	MP Conductor End	Target designation from	Wire Colour	Wire #	Wire Length	Wire AWG	Wire Colour	Target design. to	Component Length	Function text
	0.00 AWG	T/T	+BASE-TR	BLK		90"		BLK	+BASE-3PPJB-FUTR-1:3		
	0.00 AWG	T/T	+BASE-TR	RED		90"		RED	+BASE-3PPJB-FUTR-1:1		
	0.00 AWG	T/T	+BASE-TR	BLU		90"		BLU	+BASE-3PPJB-FUTR-1:5		
	0.00 AWG	R/T	+BASE-TR:GND	GRN		90"		GRN	+BASE-3PPJB-TB:GND2:a		

No. of cores
4



H.Mann Connector

INSTRUCTIONS

ADD BLUE HEATSHRINK ON WHITE CONDUCTO

UNLESS OTHER WISE STATED, CONDUCTORS TERMINATING IN THE CONTROL PANEL ARE TO BE LABELLED THE SAME AS PER CABLE NUMBER



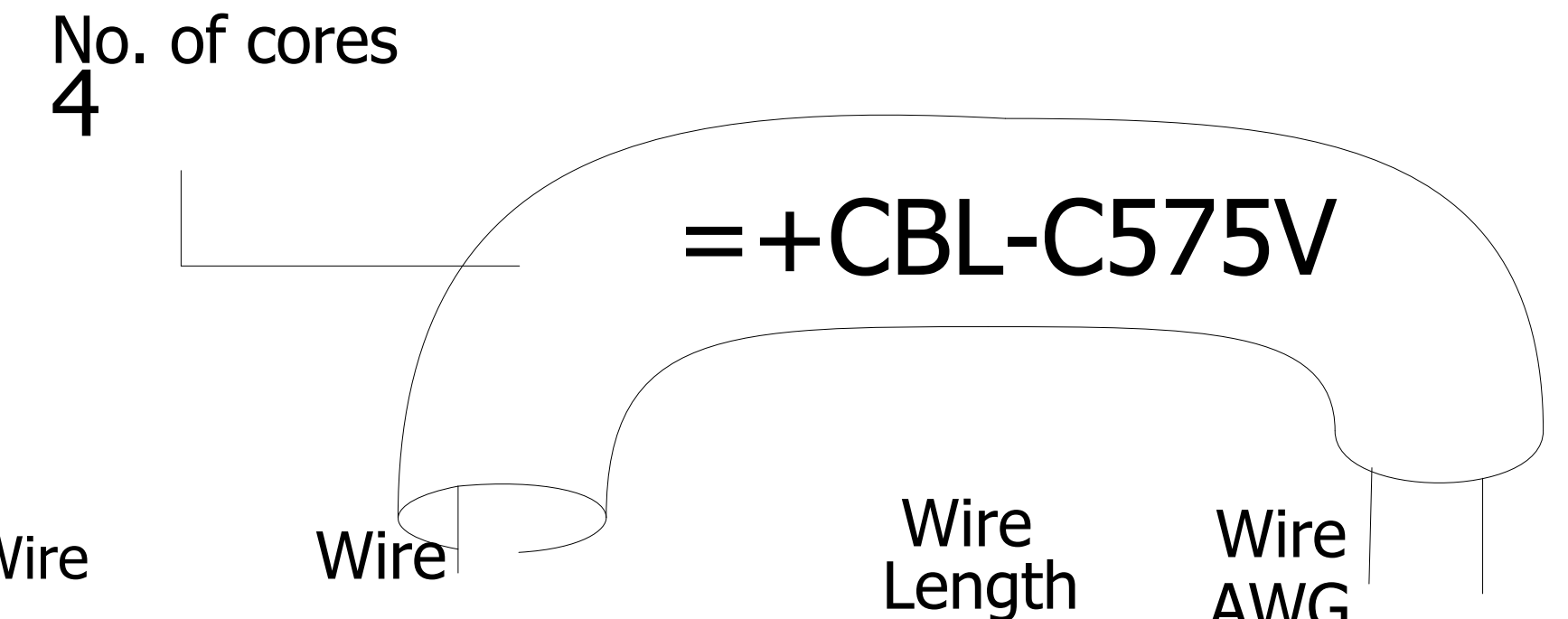
Cable Termination Sheet

ERP #	QTY	ORDER Number	DESCRIPTION
370205	1	86984	Cable, Yellow Jacket 12-4C Sto
370490	1	S2134	Fitting, 3/4 mnpt liquid tight conn.
392987	1	911372	Nut, 3/4 in. NPT, Black
392365	2	308-LE3	Label Cord 0.75 x 1.5
371460	2	HSPO-250-6-C	Heat Shrink, Blue

ERP #	QTY	ORDER Number	DESCRIPTION

Length Remark **PRIMARY CABLE**
90"

ERP #	MP Conductor Length	MP Conductor End	Target designation from	Wire Colour	Wire #	Wire Length	Wire AWG	Wire Colour	Target design. to	Component Length	Function text
	0.00 AWG	T/T	+BASE-3PPJB-TB:L2:b	BLK		90"		BLK	+BASE-TR		
	0.00 AWG	T/T	+BASE-3PPJB-TB:L1:b	RED		90"		RED	+BASE-TR		
	0.00 AWG	T/T	+BASE-3PPJB-TB:L3:b	BLU		90"		BLU	+BASE-TR		
	0.00 AWG	T/R	+BASE-3PPJB-TB:GND1:b	GRN		90"		GRN	+BASE-TR:GND		



H.Mann Connector

INSTRUCTIONS
 ADD BLUE HEATSHRINK ON WHITE CONDUCTO

UNLESS OTHER WISE STATED, CONDUCTORS TERMINATING IN THE CONTROL PANEL ARE TO BE LABELLED THE SAME AS PER CABLE NUMBER

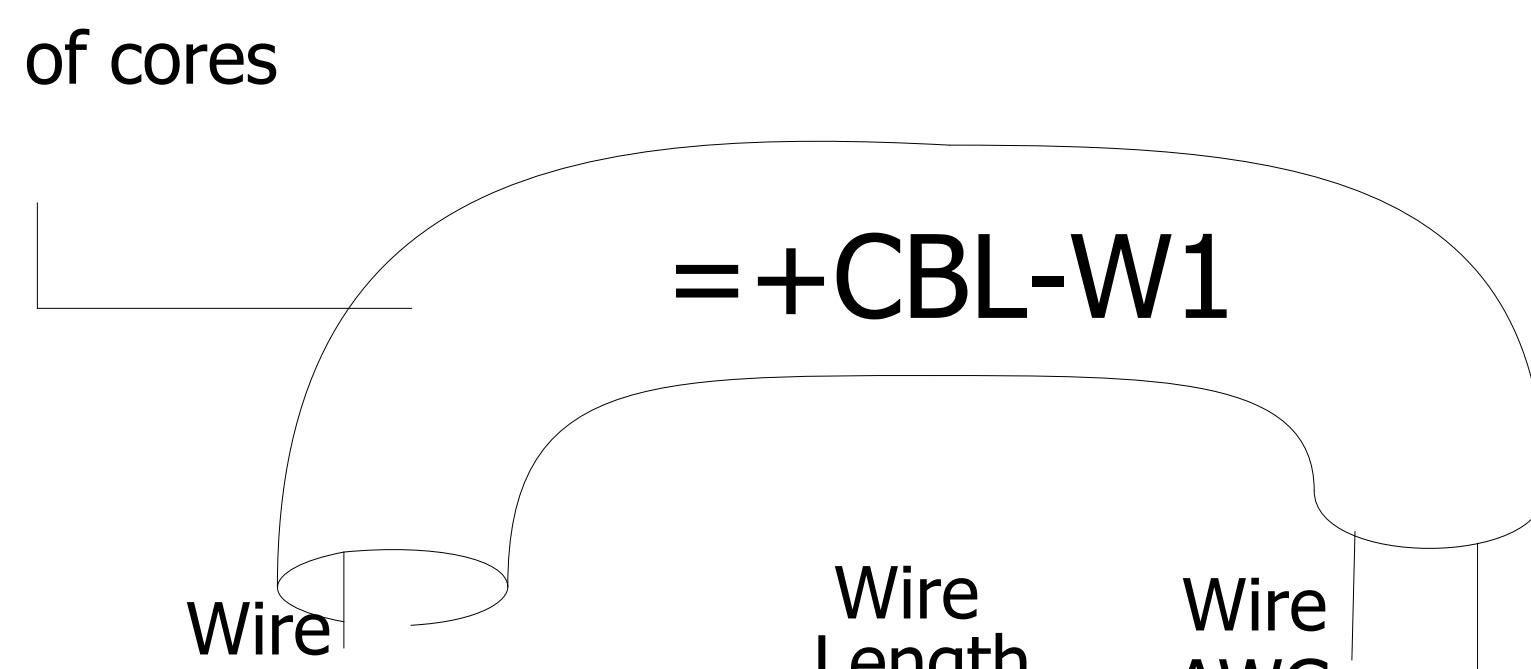
Cable Termination Sheet

ERP #	QTY	ORDER Number	DESCRIPTION

ERP #	QTY	ORDER Number	DESCRIPTION

Length Remark **SUPPLIED FROM MEP**

ERP #	MP Conductor Length	MP Conductor End	Target designation from	Wire Colour	Wire #	Wire Length	Wire AWG	Wire Colour	Target design. to	Component Length	Function text
		T/T	+MP-Q0:L1	BLK1	4			BLK1	+BASE-3PPJB-FUTR-1:2		
		T/T	+MP-Q0:L2	BLK2				BLK2	+BASE-3PPJB-FUTR-1:4		
		T/T	+MP-Q0:L3	BLK3				BLK3	+BASE-3PPJB-FUTR-1:6		
		T/T	+MP-GND	Y-GN				Y-GN	+BASE-3PPJB-TB:GND2:b		



H.Mann Connector

INSTRUCTIONS

UNLESS OTHER WISE STATED, CONDUCTORS TERMINATING IN THE CONTROL PANEL ARE TO BE LABELLED THE SAME AS PER CABLE NUMBER



Cable overview

DIN_KBU_35

Cable	ERP #	Length	Cond.	DESCRIPTION	COMMENTS
+CBL-C480V	370205	90"	4	Cable, Yellow Jacket 12-4C Sto	SECONDARY CABLE
+CBL-C575V	370205	90"	4	Cable, Yellow Jacket 12-4C Sto	PRIMARY CABLE
+CBL-W1			4		SUPPLIED FROM MEP

Next page
1700



Summarized parts list

F02_002_en_US-R1-HMG

SAP number	Order number	QTY/SAW (Each)	Designation	Type number	-	Total Lenth (Inches)	Supplier
448.9583	448.9583	1	Box, Junction, 3 Phase PWR IN	448.9583			MEP
370205	86984	2	Cable, Yellow Jacket 12-4C Sto	86984		180	
370490	S2134	2	Fitting, 3/4 mnpt liquid tight conn.	S2134			Graybar
371205	USM3	1	Fuse Block, 3-Pole, 600V, 30A	USM3			Guillevin International Inc.
371380	ATDR15	3	Fuse, Time Delay, 15 Amp, 600V	ATDR15			Guillevin International Inc.
371460	HSPO-250-6-C	4	Heat Shrink, Blue	HSPO-250-6-C		8	Guillevan
372755	9705AL/6/10/6	1	Terminal Markers, Marcom	9705AL/6/10/6			Wieland Electric
372805	57.510.9055.0	1	Earth terminal	WKN10 SL/U /V0			WIE
372986		1	Transformer, Auto, 9KVA, 600V / 480V,	MAT9A19			Marcus
373160	12 AWG/19 T90 G/Y	1	Wire, 12 Awg / 19, T90, Green-Yellow	12 AWG/19 T90 G/Y		18	Guillevin International Inc.
390860	1123146	1	Bolt Socket Head Cap 10-24 X 0.75	A1-.19 X .75			FASTEN
391486	391486	1	Label, Voltage, 575V	391486			JMSPRI
391938	391938	1	Label Danger - Hazardous Voltage Inside	391938			
392365	308-LE3	4	Label Cord 0.75 x 1.5	308-LE3			
392375	LAT-15-361-5	1	Label,Self Laminating Vinyl, 0.5"x0.75"	LAT-15-361-5			Graybar
392987	911372	2	Nut, 3/4 in. NPT, Black	911372			Graybar
600009241	NA-401	1	Neutra/ Grounding Bar 4-14AWG,	NA-401			Guillevin International Inc.

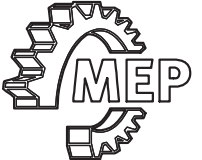
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LISTA FOGLI \ INDEX

Foglio Sheet	Descrizione Description	Revisione \ Revision									Foglio Sheet	Descrizione Description	Revisione \ Revision									
		0	1	2	3	4	5	6	7	8			9	0	1	2	3	4	5	6	7	8
1	INDICE CONTENUTI Content Index										14	UNITA' CENTRALE MEP50V1 Central Unit MEP50V1										
2	INDICE CONTENUTI Content Index										15	INGRESSI DIGITALI MEP50 (10- 17) Digital Inputs MEP50										
3	LEGENDA SIMBOLI Symbol Key										16	INGRESSI DIGITALI MEP50 (18- 115) Digital Inputs MEP50										
4	LEGENDA SIMBOLI Symbol Key										17	INGRESSI DIGITALI MEP50 (116- 123) Digital Inputs MEP50										
5	ALIMENTAZIONE GENERALE 480V General Power Supply 480V										18	USCITE DIGITALI MEP50 Digital Output MEP50										
6	ALIMENTAZIONE MOTORI 480V Motor Power Supply 480V										19	USCITE DIGITALI MEP50 Digital Output MEP50										
7	ALIMENTAZIONE MOTORI 480V Motor Power Supply 480V										20	INGRESSI ANALOGICI MEP50 Analog Input MEP50										
8	ALIMENTAZIONE TRASFORMATORI Transformer Power Supply										21	INGRESSI ANALOGICI MEP50 Analog Input MEP50										
9	ALIMENTAZIONE MOTORE STEPPER Stepper Motor Power Supply										22	USCITE STEPPER MEP50 Stepper Output MEP50										
10	ALIMENTAZIONE AUSILIARI Auxiliary Circuit Power Supply										23	USCITA ANALOGICA E SERIALE MEP50 Analog Output and Serial MEP50										
11	RELE SICUREZZA EMERGENZA Emergency safety relay										24	ALIMENTAZIONE E ENCODER PANNELLO Power Supplay and Panel Encoder										
12	AUSILIARI INVERTER Inverter Auxiliary Circuits										25	OPTIONAL Optional										
13	AUSILIARI MOTORE STEPPER Stepper Motor Auxiliary Circuits										26	MORSETTIERA QUADRO Panel Terminal Board										

Note :





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R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD SPAC		Commissa/Order p.n..732.9139.1		Segue/Follow 2
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg	Denominazione/Title INDICE CONTENUTI	Esecutore/Executer Mep SpA		Ultimo/Last 217
R0.0.	First draft	20/10/2017		Data 10/03/2022	<i>Content Index</i>			
REV.	MODIFICA	DATA	FIRME					

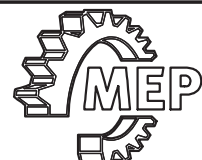

Sim.\Sym.	File	Descrizione\Description
	H5	Lampada <i>Lamp</i>
	H11	LED <i>Led</i>
	M2	Motore asincrono trifase <i>Three-phase inductor motor</i>
	M9	Motore corrente alternata monofase <i>Single-phase inductor motor</i>
	Q1360	Int. automatico magnetotermico sezionatore tripolare <i>Three-phase automatic switch</i>
	R1	Resistore <i>Resistor</i>
	R6	Potenzometro <i>Potentiometer</i>
	R60	Potenzometro <i>Potentiometer</i>
	S2	Comando a Pulsante NO <i>Push button NO</i>
	S4C	Pulsante di emergenza NC <i>Emergency push button NC</i>
	S5	Comando rotativo a due posizioni NO <i>Rotary selector two position</i>

Sim.\Sym.	File	Descrizione\Description
	S7	Comando a pedale NO <i>Control pedal NO</i>
	S13C	Fine corsa comandato a camma libero NC <i>Limit switch free NC</i>
	S14C	Fine corsa comandato a camma azionato NC <i>Limit switch actuated NC</i>
	S15C	Comandato dal livello di un fluido (livellostato) NC <i>Water gauge NC</i>
	T2	Trasformatore per ausiliari con schermo <i>Trasformer for auxiliary white shield</i>
	Y1	Elettrovalvola (A) <i>Solenoid valve (A)</i>
	Y1A	Elettrovalvola (B) <i>Solenoid valve (B)</i>
	KA1	Bobina rele' Aux <i>Auxiliary relay coil</i>
	KM1	Bobina contattore <i>Contactore coil</i>
	BLK11	Trasformatore per ausiliari con schermo <i>Trasformer for auxiliary white shield</i>
	BLK12	Inverter (potenza) <i>Inverter (power)</i>

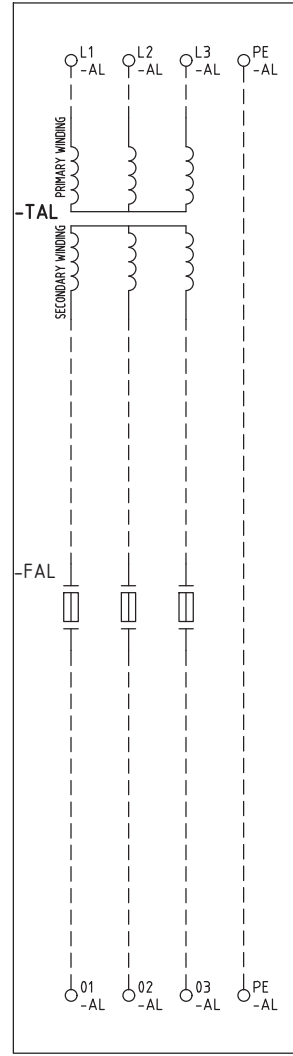
Sim.\Sym.	File	Descrizione\Description
	BLK13	Azionamento (potenza) <i>Drive (power)</i>
	BLK14	Inverter (ausiliari) <i>Inverter (auxiliary)</i>
	BLK15	Azionamento (ausiliari) <i>Drive (auxiliary)</i>
	BLK21	Motore passo-passo <i>Stepper motor</i>
	BLK41	Raccordo SX <i>Connector SX</i>
	BLK42	Raccordo DX <i>Connector DX</i>
	BLK43	Tubo corrugato <i>Corrugated pipe</i>
	BLK44	Riduzione PG <i>PG adapter</i>
	BLK51	Dado PG <i>PG nut</i>
	BLK56	Terminale a puntale <i>Terminal</i>
	BLK57	Filo unipolare <i>Wire</i>

				Dis. N.	S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1	Ordine/Requisition	S 20A		Foglio/Page	3
				CAD	SPAC			Commissa/Order	p.n..732.9139.1		Segue/Follow	4
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	File	S20A\1.dwg	Denominazione/Title		LEGENDA SIMBOLI			Ultimo/Last	217
R.2.0	Changed Console/keybord on Control Panel	31/08/2020	Solfanelli	Data	10/03/2022	Symbol Key		Esecutore/Executer	Mep SpA			
R0.0.	First draft	20/10/2017										
REV.	MODIFICA	DATA	FIRME									

Sim.\Sym.	File	Descrizione\Description	Sim.\Sym.	File	Descrizione\Description	Sim.\Sym.	File	Descrizione\Description
	BLK58	Fascette plastiche di fissaggio <i>Plastic clamp</i>						
	BLK60	Terminale a occhio <i>Terminal</i>						
	BLK66	Sacchetto portafusibile <i>Bag fuse</i>						
	SPX08E	Dispositivo di prossimita' induttivo D.C. NO <i>Sensor of proximity fed DC NO</i>						

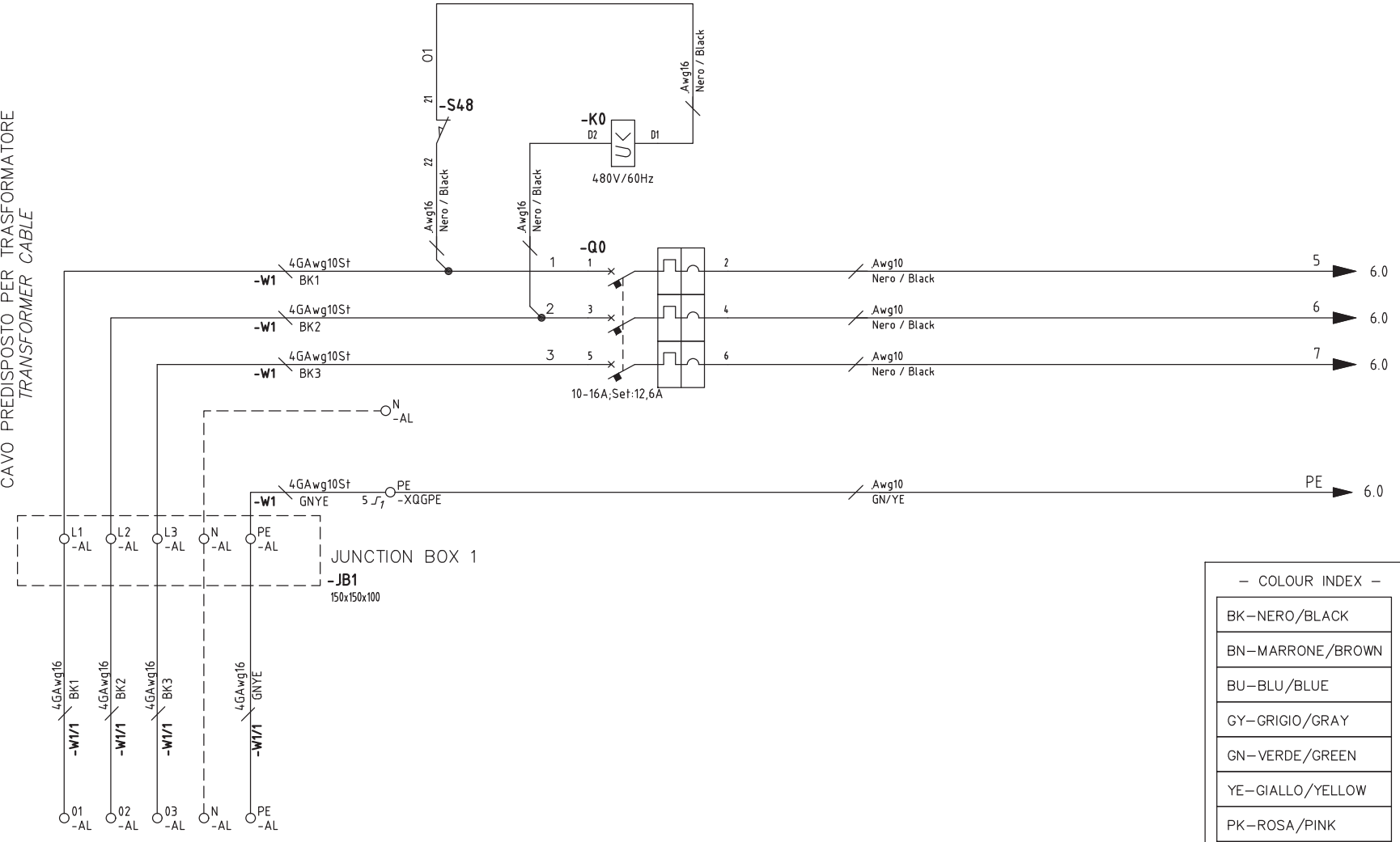
				Dis. N. S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1		Ordine/Requisition S 20A		Foglio/Page 4
				CAD 			Commissa/Order p.n..732.9139.1	Segue/Follow 5		
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	File	S20A\1.dwg	Denominazione/Title LEGENDA SIMBOLI		Esecutore/Executer Mep SpA		Ultimo/Last 217
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli	Data	10/03/2022	<i>Symbol Key</i>				
R0.0.	First draft	20/10/2017								
REV.	MODIFICA	DATA	FIRME							

TRASFORMER SIDE
LATO TRASFORMATORE



JUNCTION BOX SIDE
LATO JUNCTION BOX

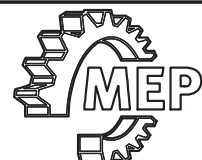
CAVO PREDISPOSTO PER TRASFORMATORE
TRANSFORMER CABLE

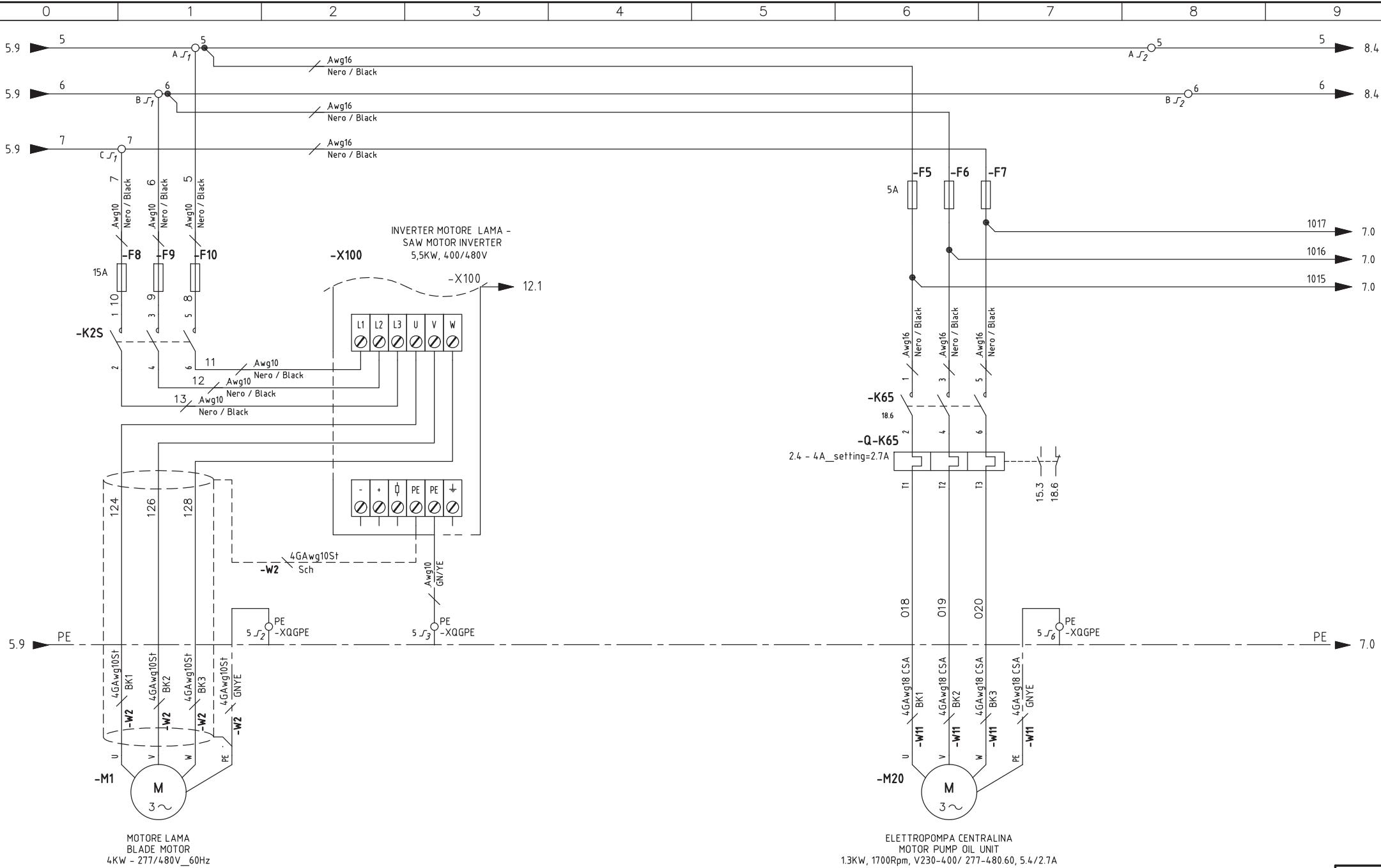


ALIMENTAZIONE 480Vac 60Hz
POTENZA INSTALLATA 6,8KW
POWER SUPPLY 480V AC 60Hz
INSTALLED POWER 6,8KW

— COLOUR INDEX —

BK	NERO/BLACK
BN	MARRONE/BROWN
BU	BLU/BLUE
GY	GRIGIO/GRAY
GN	VERDE/GREEN
YE	GIALLO/YELLOW
PK	ROSA/PINK
QG	ARANCIO/ORANGE
RD	ROSSO/RED
VT	VIOLA/VIOLET
WH	BIANCO/WHITE

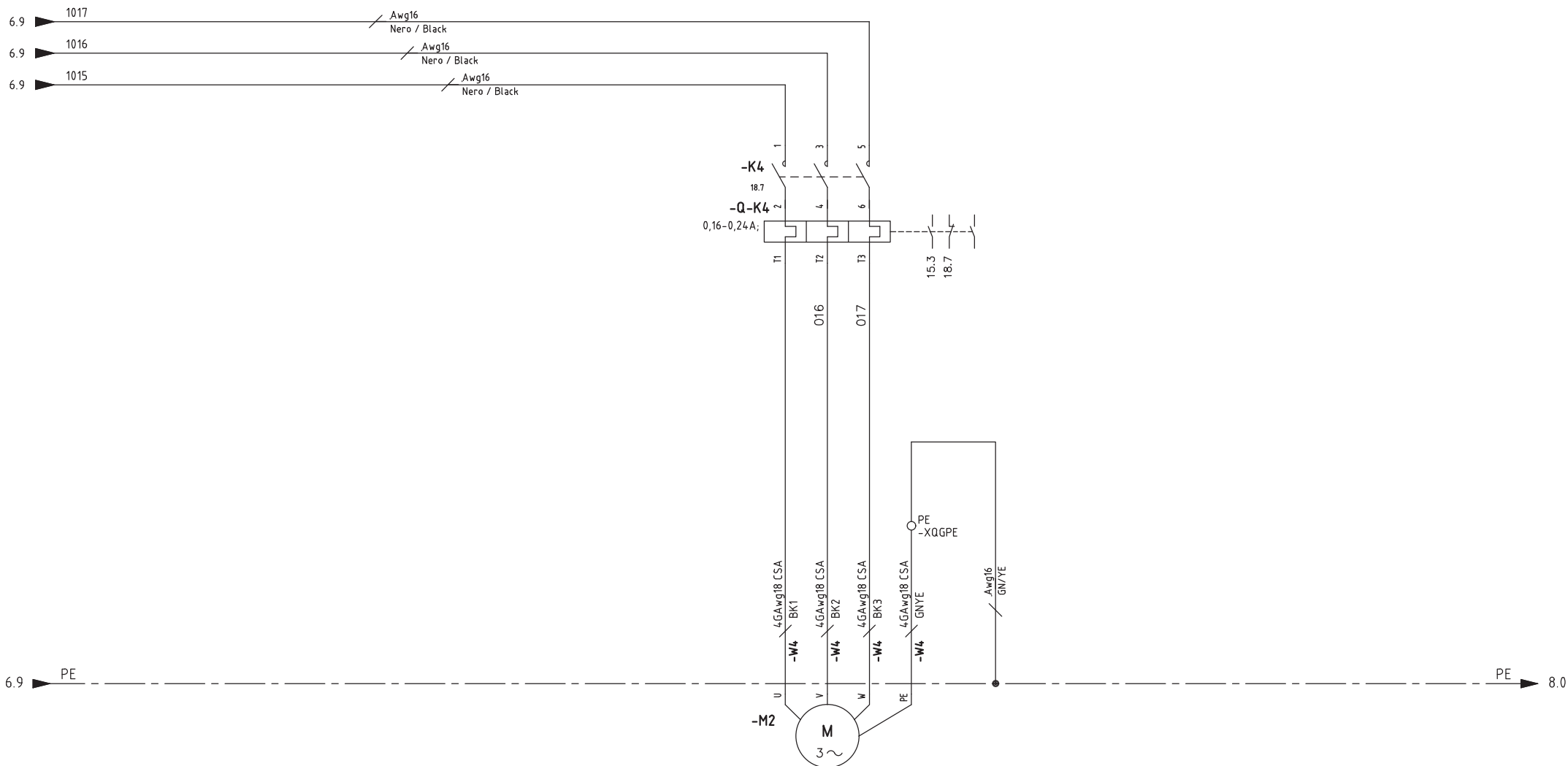
				Dis. N.	S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1	Ordine/Requisition	S 20A		Foglio/Page	5
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD	SPAC			Commissa/Order	p.n..732.9139.1		Segue/Follow	6
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli	File	S20A\1.dwg	Denominazione/Title	ALIMENTAZIONE GENERALE 480V	Esecutore/Executer	Mep SpA		Ultimo/Last	217
R0.0.	First draft	20/10/2017		Data	10/03/2022		General Power Supply 480V					
REV.	MODIFICA	DATA	FIRME									



MOTORE LAMA
BLADE MOTOR
4KW - 277/480V_60Hz

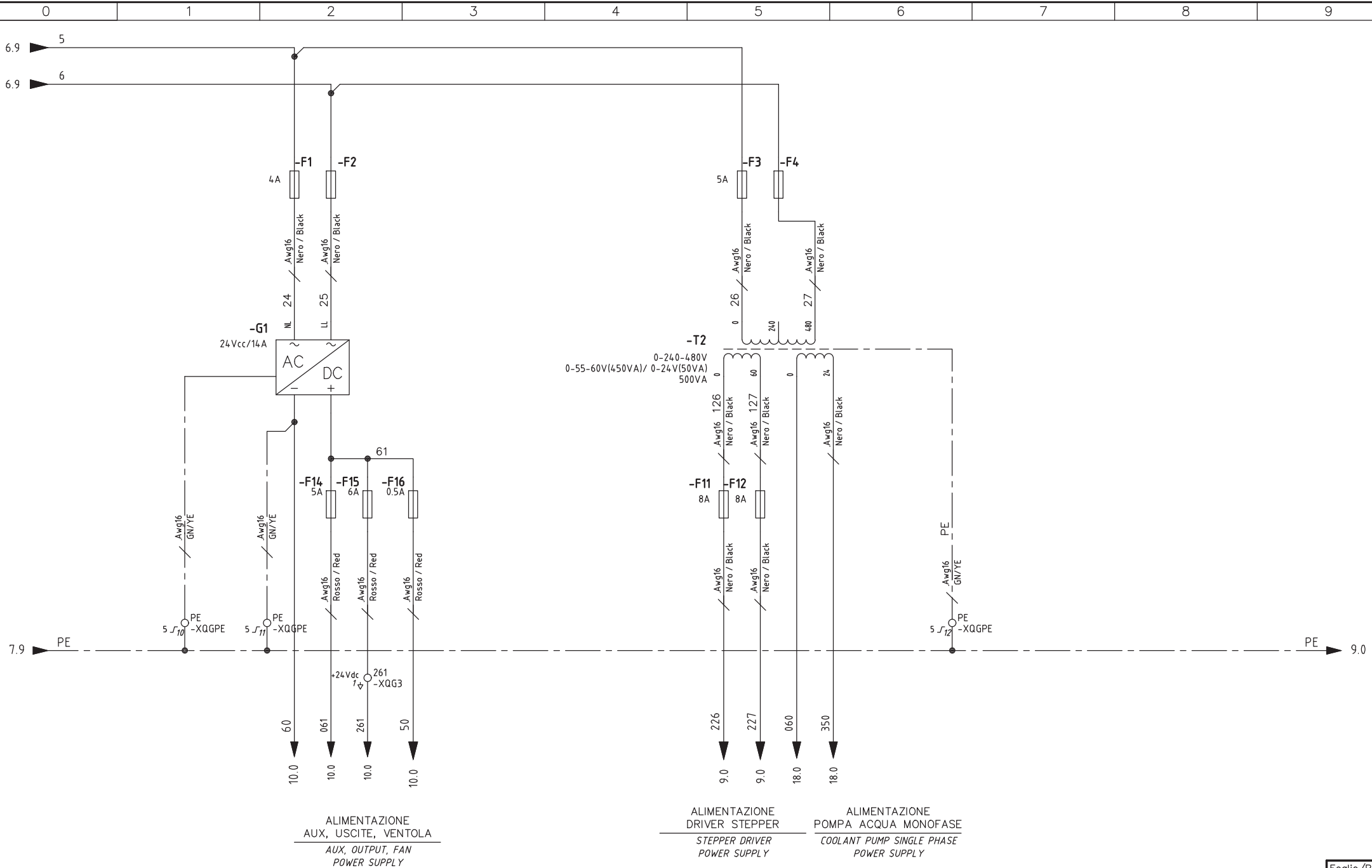
ELETTROPOMPA CENTRALINA
MOTOR PUMP OIL UNIT
1.3KW, 1700Rpm, V230-400/ 277-480.60, 5.4/2.7A

				Dis. N.	S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1	Ordine/Requisition	S 20A		Foglio/Page	6
				CAD	SPAC	Denominazione/Title	ALIMENTAZIONE MOTORI 480V	Commissa/Order	p.n..732.9139.1		Segue/Follow	7
R.3.0				Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli		Esecutore/Executer	Mep SpA		Ultimo/Last	217
R.2.0				Changed Console/keybord on Control Panel	31/08/2020	Solfanelli						
R0.0.				First draft	20/10/2017							
REV.	MODIFICA			DATA	FIRME	Date	10/03/2022	Motor Power Supply 480V				



ELETTROPOMPA LIQUIDO REFRIGERANTE
 COOLANT PUMP
 0.15KW, 2800rpm, 480V 60Hz

				Dis. N.	S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1	Ordine/Requisition	S 20A		Foglio/Page	7
				CAD	SPAC	Denominazione/Title	ALIMENTAZIONE MOTORI 480V	Commissa/Order	p.n..732.9139.1		Segue/Follow	8
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	File	S20A\1.dwg			Esecutore/Executer	Mep SpA		Ultimo/Last	217
R.2.0	Changed Consolle/keyboard on Control Panel	31/08/2020	Solfanelli	Data	10/03/2022							
R0.0.	First draft	20/10/2017										
REV.	MODIFICA	DATA	FIRME									

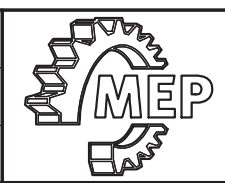


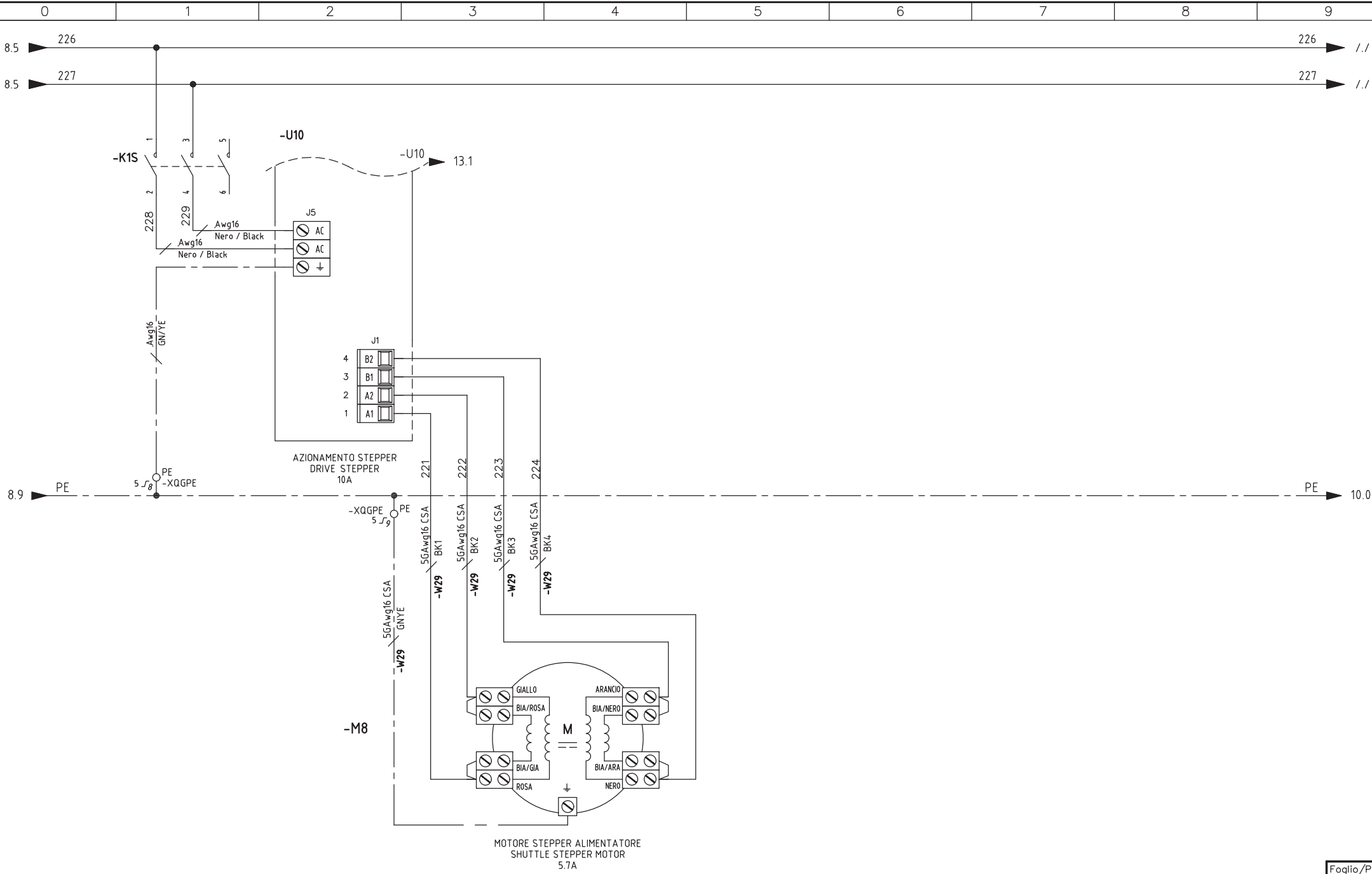
REV.	MODIFICA	DATA	FIRME
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli
R.2.0	Changed Console/keybord on Control Panel	31/08/2020	Solfanelli
R0.0.	First draft	20/10/2017	

Dis. N.	S20A_48060CSA/1022
CAD	SPAC
File	S20A\1.dwg
Data	10/03/2022

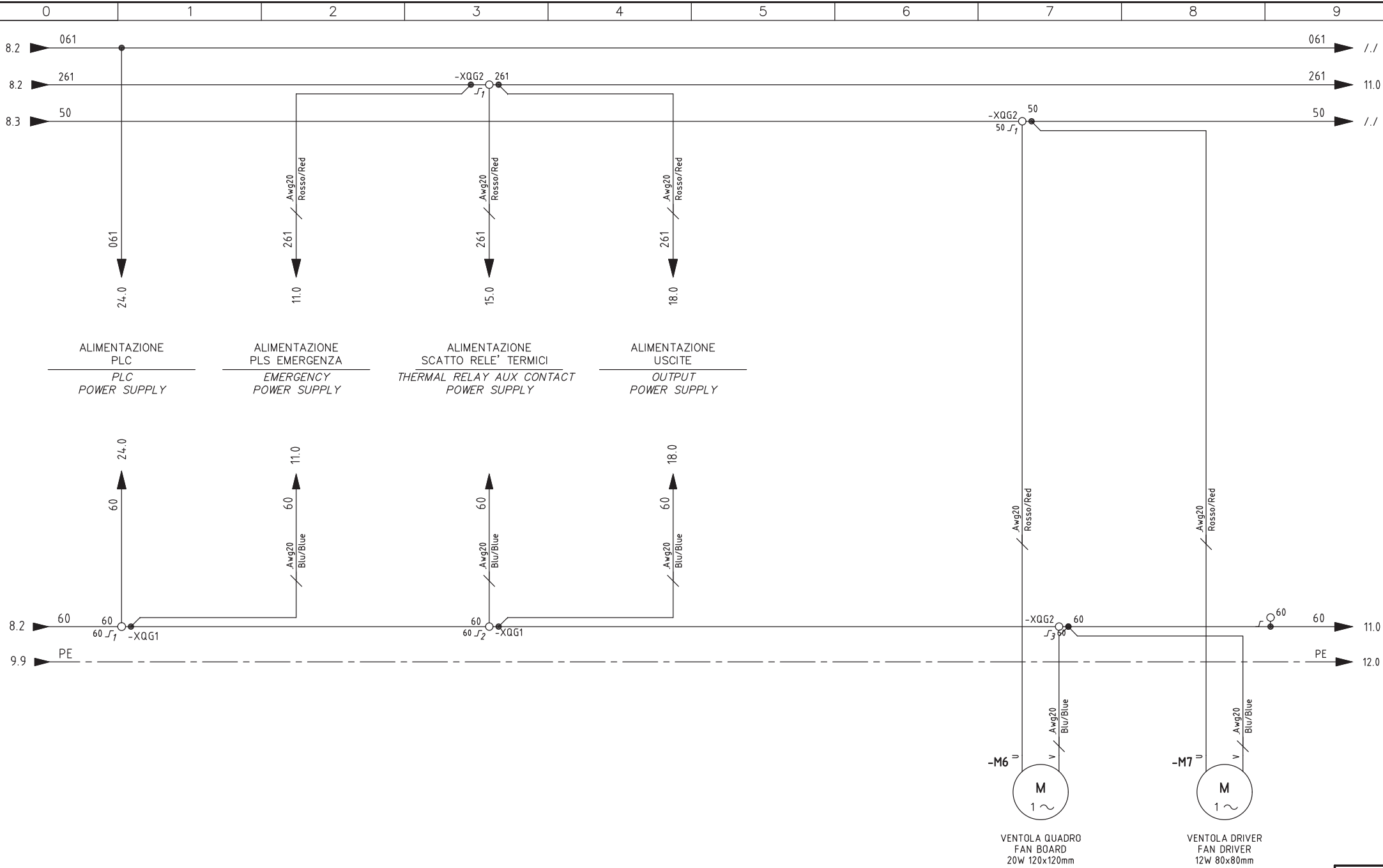
Impianto/Plant	S20 A_480/60Hz MEP50 V1
Denominazione/Title	ALIMENTAZIONE TRASFORMATORI Transformer Power Supply

Ordine/Requisition	S 20A
Commissa/Order	p.n..732.9139.1
Esecutore/Executer	Mep SpA





				Dis. N.	S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1	Ordine/Requisition	S 20A		Foglio/Page	9
				CAD	SPAC	Denominazione/Title	ALIMENTAZIONE MOTORE STEPPER	Commissa/Order	p.n..732.9139.1		Segue/Follow	10
R.3.0				Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli		Esecutore/Executer	Mep SpA		Ultimo/Last	217
R.2.0				Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli						
R0.0.				First draft	20/10/2017							
REV.	MODIFICA	DATA	FIRME	Data	10/03/2022		<i>Stepper Motor Power Supply</i>					

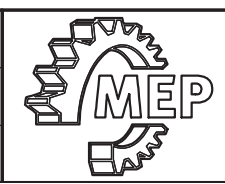


REV.	MODIFICA	DATA	FIRME
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli
R0.0.	First draft	20/10/2017	

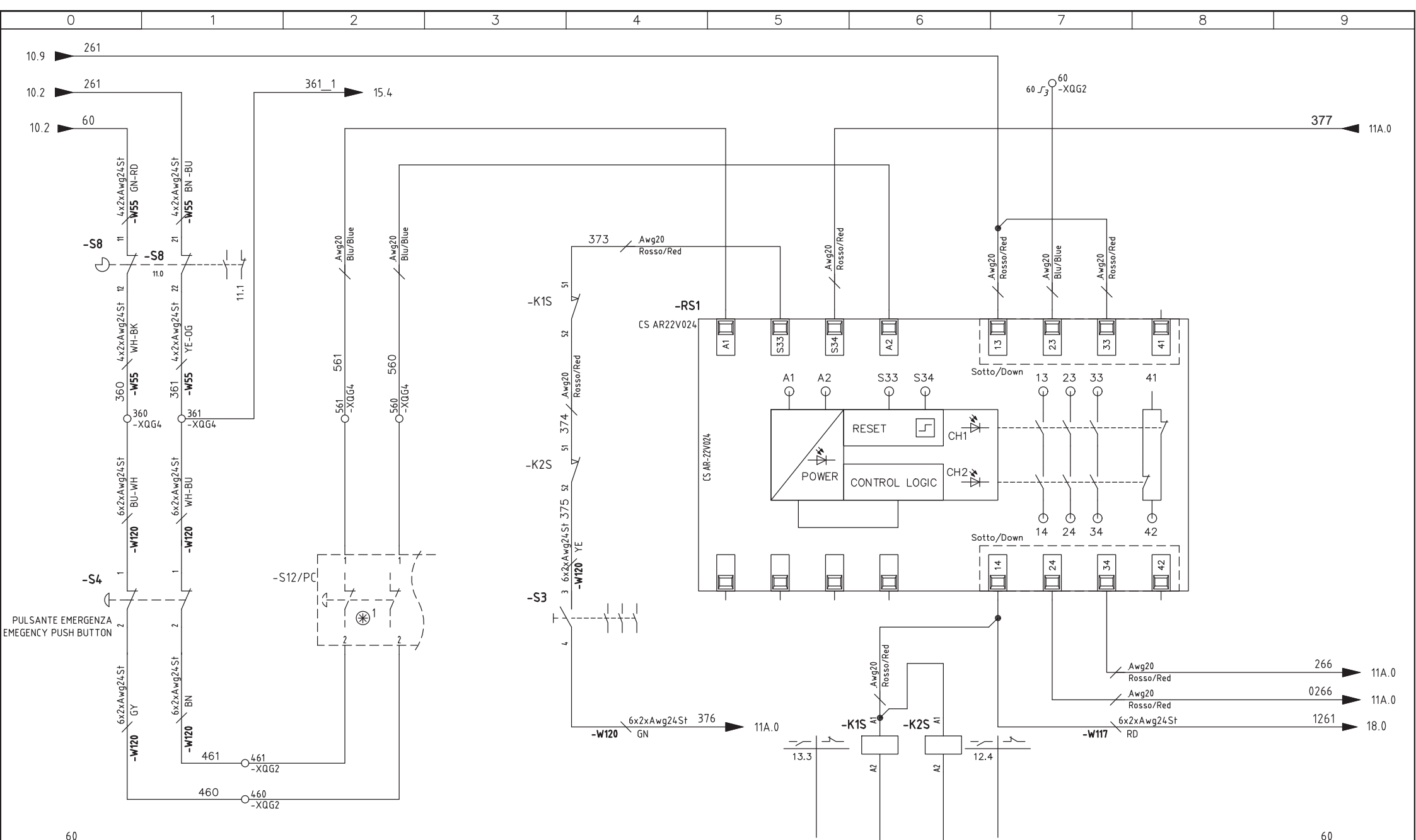
Dis. N.	S20A_48060CSA/1022
CAD	SPAC
File	S20A\1.dwg
Data	10/03/2022

Impianto/Plant	S20 A_480/60Hz MEP50 V1
Denominazione/Title	ALIMENTAZIONE AUSILIARI Auxiliary Circuit Power Supply

Ordine/Requisition	S 20A
Commessa/Order	p.n..732.9139.1
Esecutore/Executer	Mep SpA



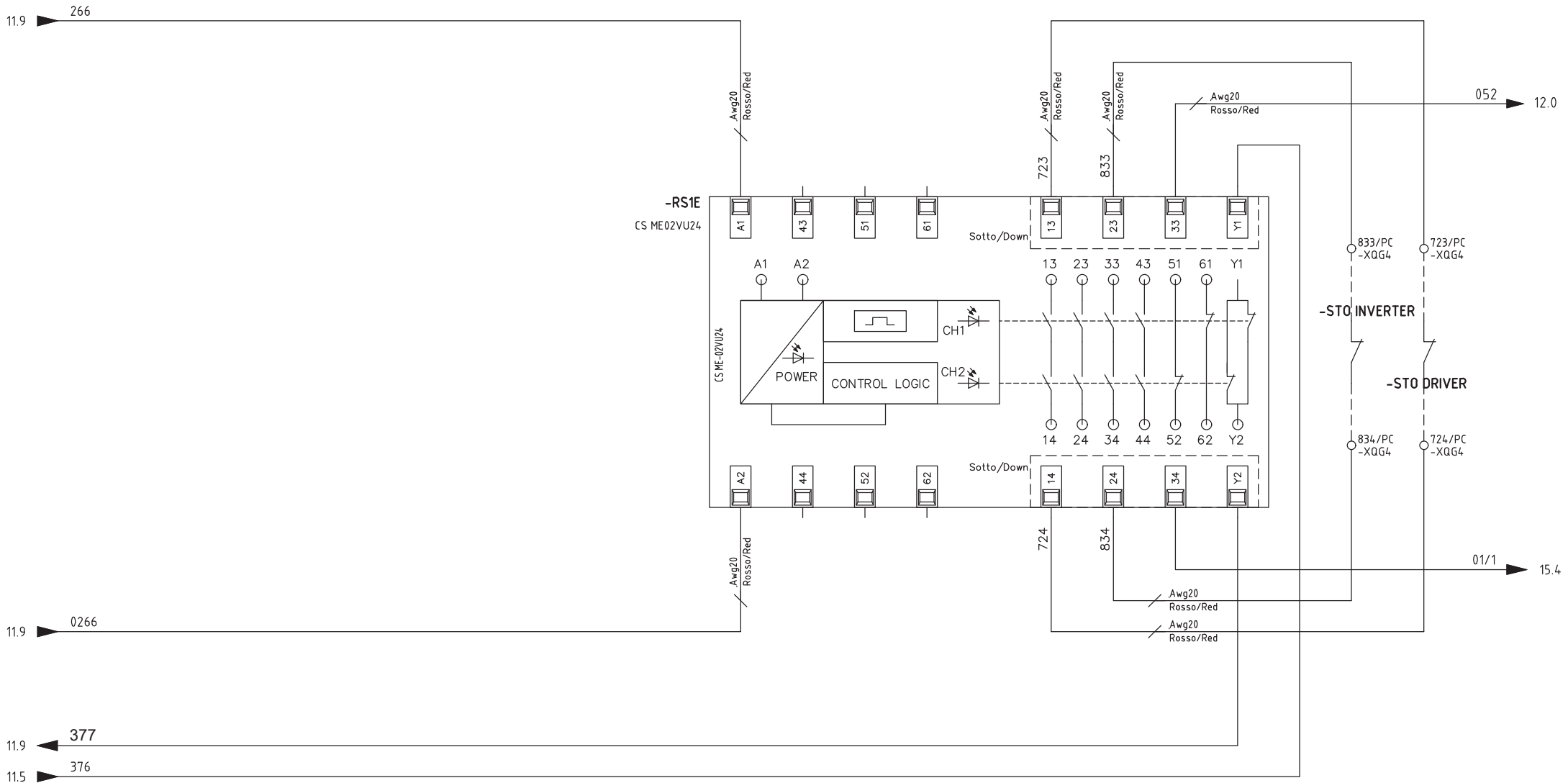
Foglio/Page	10
Segue/Follow	11
Ultimo/Last	217



⊗ 1 COLLEGARE I MORSETTI SE NON SONO PRESENTI RULLIERE IN ALIMENTAZIONE
WITHOUT POWERED CONVEYOUR IN CONTACT CONNECT TERMINALS

⊗ 2 COLLEGARE I MORSETTI SE NON E' PRESENTE LA PEDALIERA
WITHOUT REMOTE START IN CONTACT CONNECT TERMINALS

				Dis. N.	S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1	Ordine/Requisition	S 20A		Foglio/Page	11
				CAD	SPAC	Denominazione/Title	RELE SICUREZZA EMERGENZA (RS1)	Commissa/Order	p.n..732.9139.1		Segue/Follow	11A
				File	S20A\1.dwg		Emergency safety relay (RS1)	Esecutore/Executer	Mep SpA		Ultimo/Last	217
				Data	10/03/2022							
REV.	MODIFICA	DATA	FIRME									
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli									
R.2.0	Changed Consolle/keybord on Control Panel	31/08/2020	Solfanelli									
R0.0.	First draft	20/10/2017										

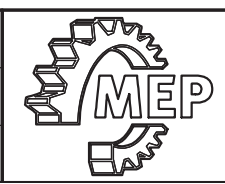


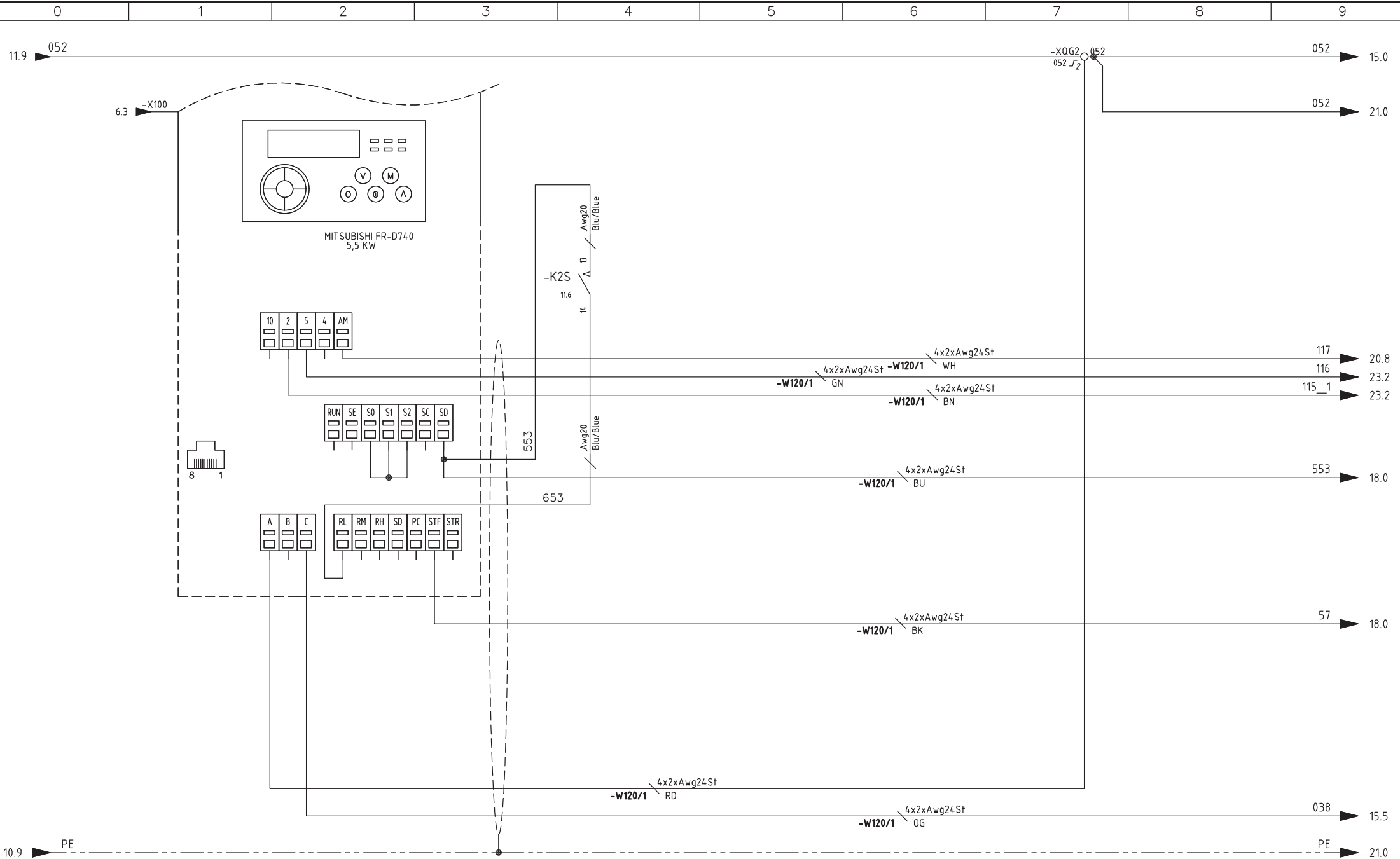
REV.	MODIFICA	DATA	FIRME
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli
R0.0.	First draft	20/10/2017	

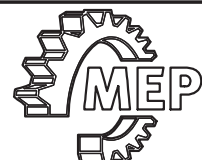
Dis. N.	S20A_48060CSA/1022
CAD	SPAC
File	S20A\1.dwg
Data	10/03/2022

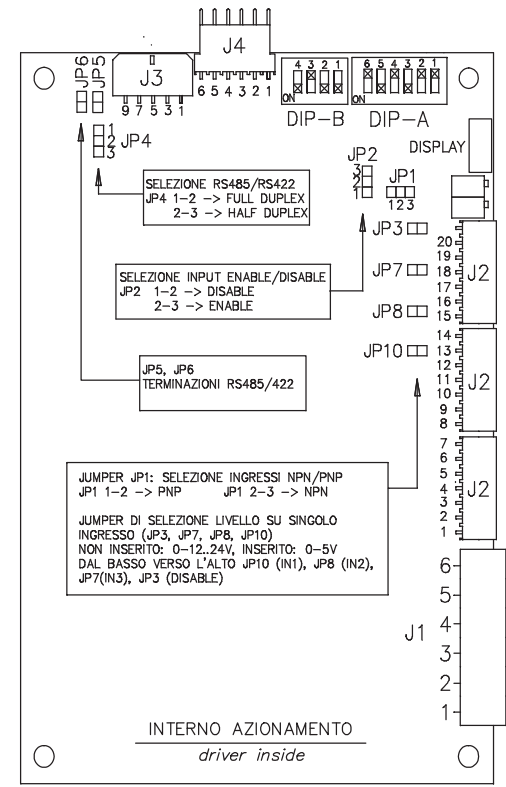
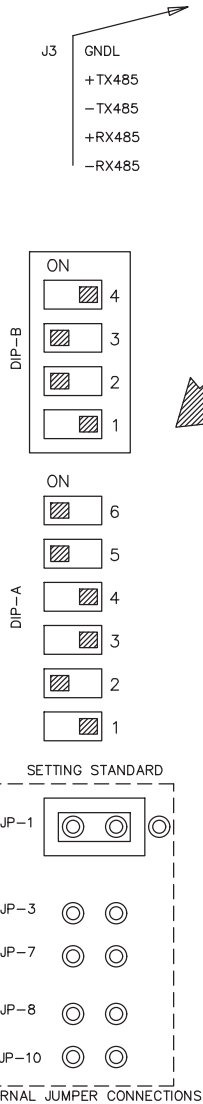
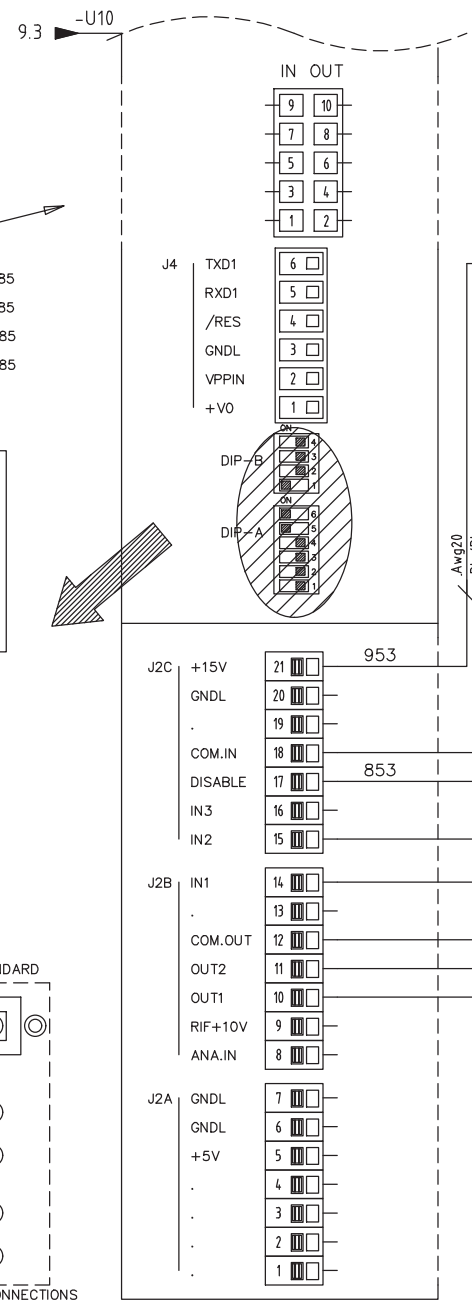
Impianto/Plant	S20 A_480/60Hz MEP50 V1
Denominazione/Title	ESPANSIONE MODULO SICUREZZA (RS1E) Expansion safety module (RS1E)

Ordine/Requisition	S 20A
Commessa/Order	p.n..732.9139.1
Esecutore/Executer	Mep SpA





				Dis. N.	S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1	Ordine/Requisition	S 20A		Foglio/Page	12
				CAD	SPAC	Denominazione/Title	AUSILIARI INVERTER	Commissa/Order	p.n..732.9139.1		Segue/Follow	13
				File	S20A\1.dwg			Esecutore/Executer	Mep SpA		Ultimo/Last	217
				Data	10/03/2022		<i>Inverter Auxiliary Circuits</i>					
REV.	MODIFICA	DATA	FIRME									
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli									
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli									
R0.0.	First draft	20/10/2017										



Terminals for connection whit external powered conveyor

NOTES:

Jumpers JP8 and JP10 included for INP1 and INP2 TTL --JP9 on Mep50V1 motherboard not included.

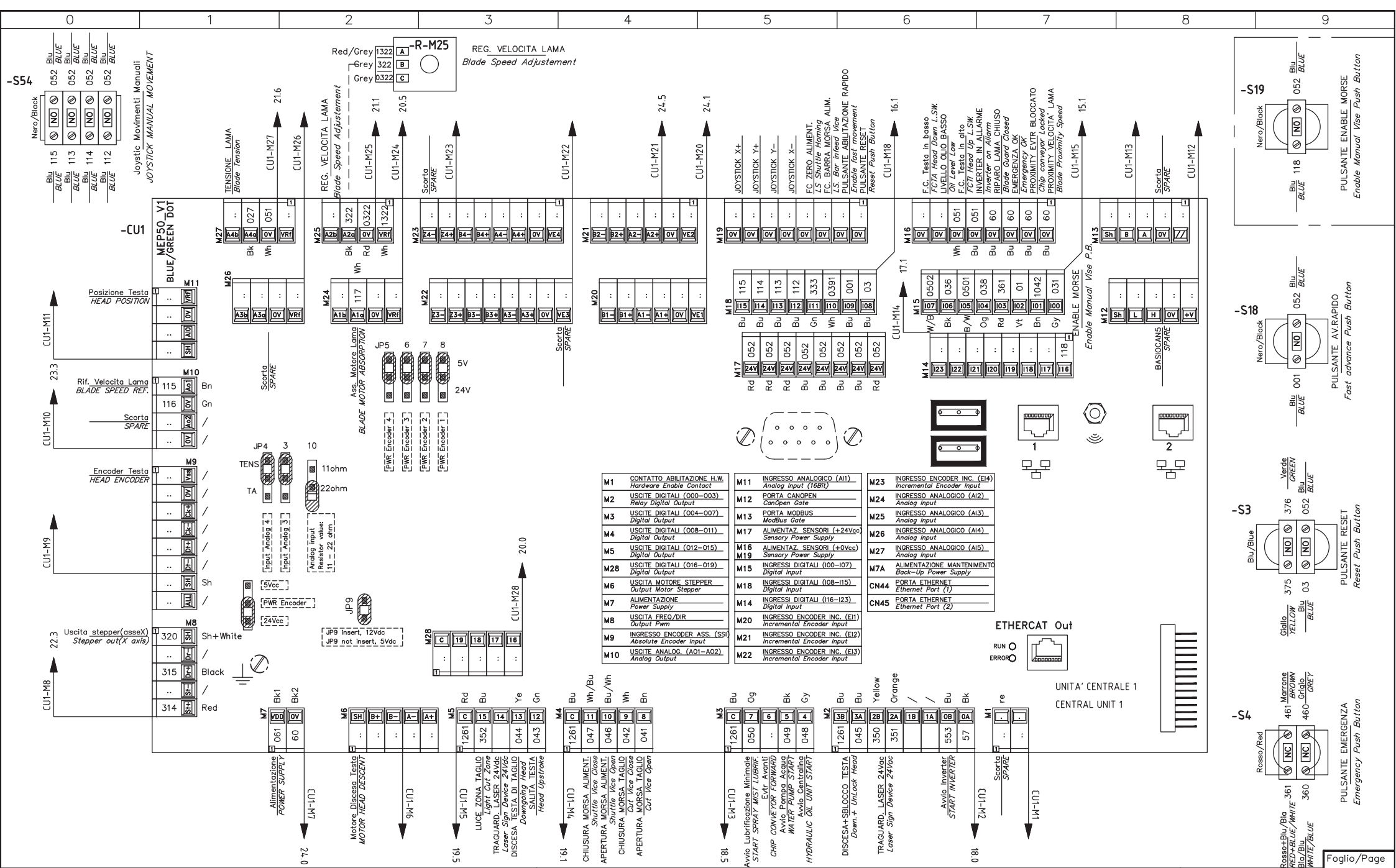
Jumpers JP8 and JP10 not included for INP1 and INP2 at 12V --JP9 on Mep50V1 motherboard included.

DIPB1 = OFF for normal mode.

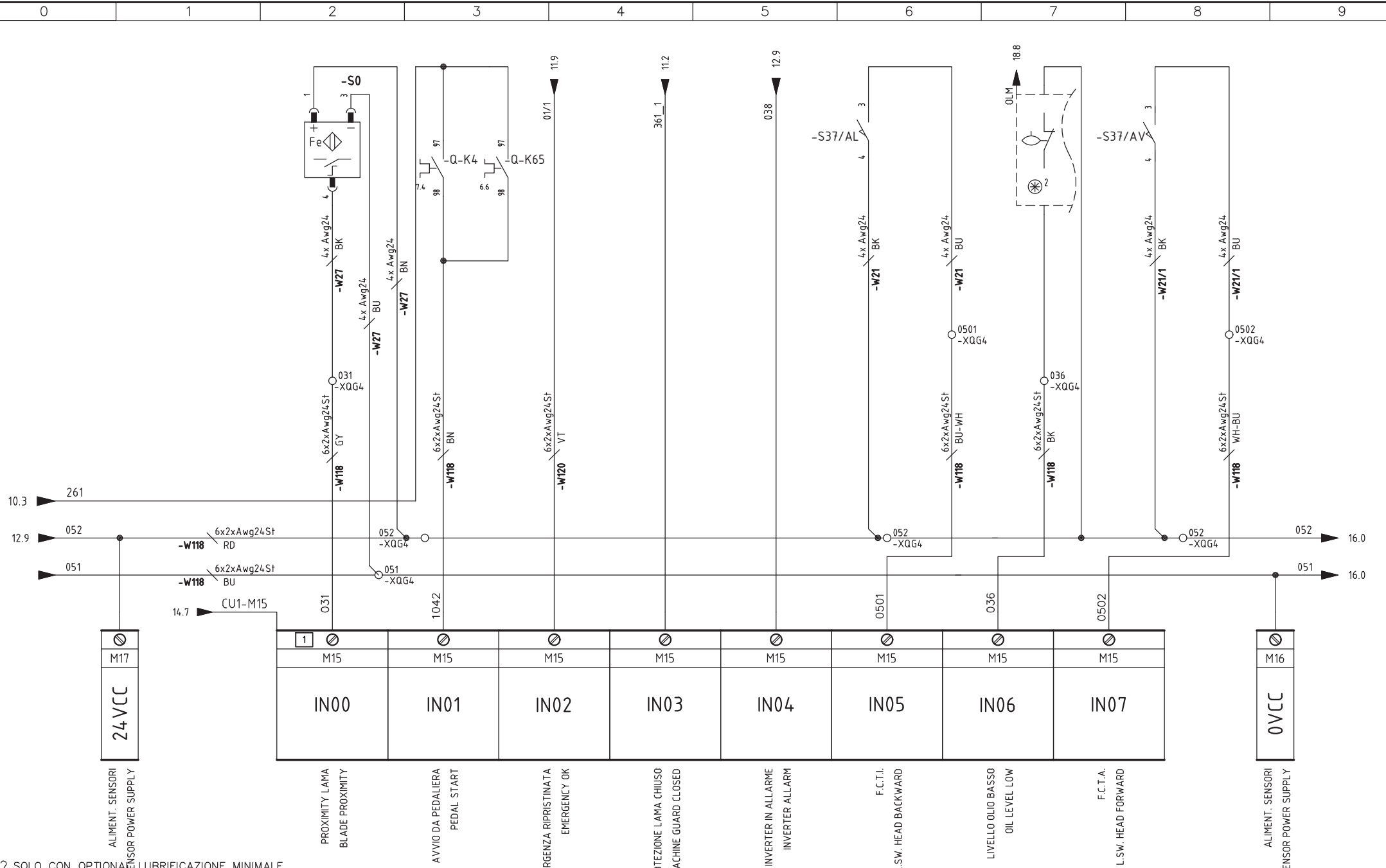
DIPB1 = ON for current regulation trough RV6 --> 1,2,3....b for 12A output current.

DIPB2 e 3 = ON for 400steps/round resolution.

				Dis. N.	S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1	Ordine/Requisition	S 20A		Foglio/Page	13
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD	SPAC	Denominazione/Title	AUSILIARI MOTORE STEPPER Stepper Motor Auxiliary Circuits	Commissa/Order	p.n..732.9139.1		Segue/Follow	14
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli	File	S20A\1.dwg			Esecutore/Executer	Mep SpA		Ultimo/Last	217
R.0.0	First draft	20/10/2017		Data	10/03/2022							
REV.	MODIFICA	DATA	FIRME									



REV.	MODIFICA	DATA	FIRME	Dis. N. S20A_48060CSA/1022	Impianto/Plant S20 A_480/60Hz MEP50 V1	Ordine/Requisition S 20A		Foglio/Page 14
R.3.0	Change safety relay module (RS1+RS1E) -sheet 11,11A	10/03/2022	Solfanelli	CAD SPAC	Denominazione/Titolo UNITA' CENTRALE MEP50V1	Compresso/Order p.n..732.9139.1		Segue/Follow 15
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg		Esecutore/Executer Mep SpA		Ultimo/Last 217
R.0.0	First draft	20/10/2017		Data 10/03/2022	Central Unit MEP50V1			



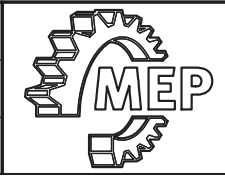
⊗ SOLO CON OPTIONAL LUBRIFICAZIONE MINIMALE
 Only With Spray Mist Lubrification Optional

REV.	MODIFICA	DATA	FIRME
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli
R.2.0	Changed Console/keybord on Control Panel	31/08/2020	Solfanelli
R0.0.	First draft	20/10/2017	

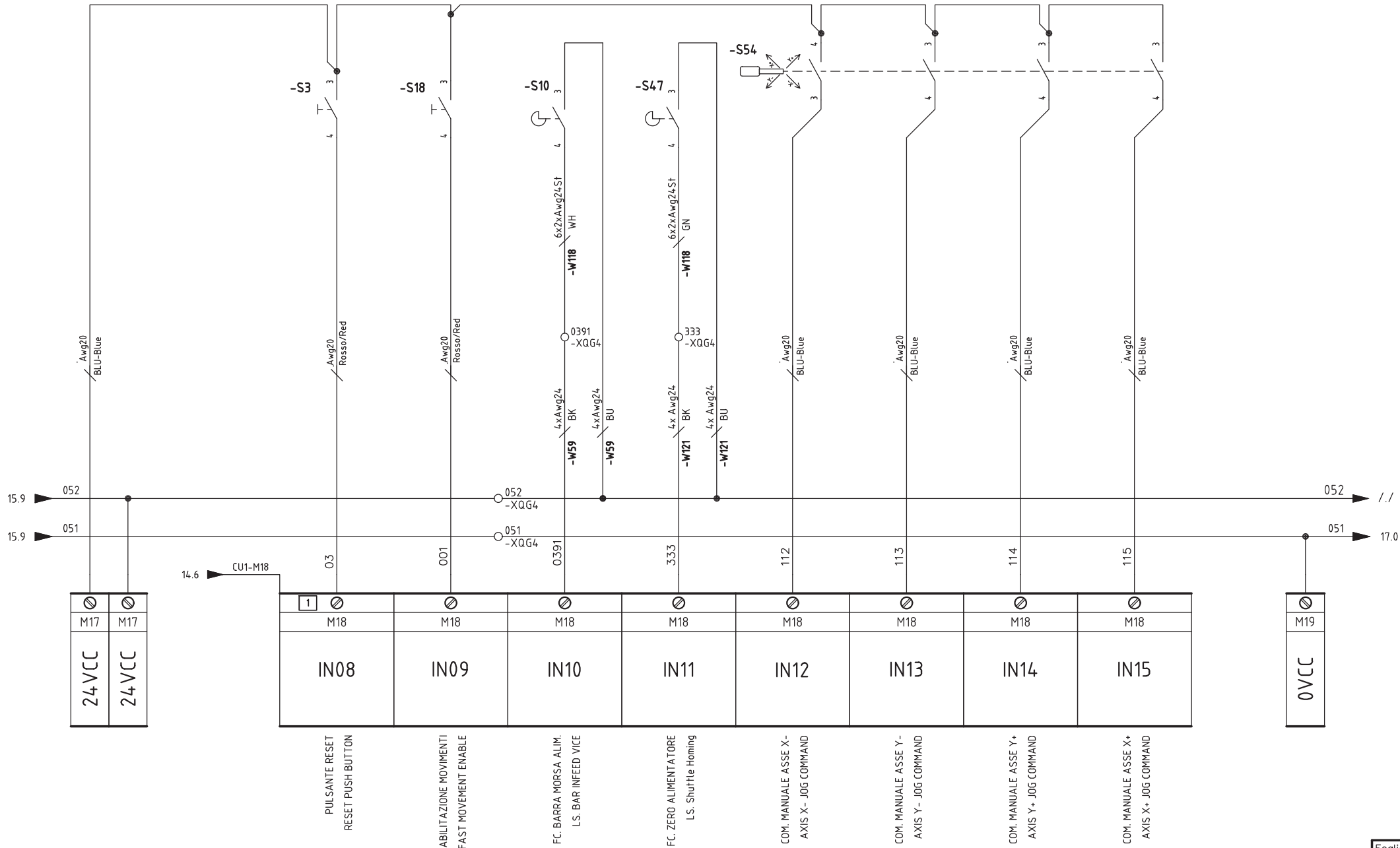
Dis. N.	S20A_48060CSA/1022
CAD	SPAC
File	S20A\1.dwg
Data	10/03/2022

Impianto/Plant	S20 A_480/60Hz MEP50 V1
Denominazione/Title	INGRESSI DIGITALI MEP50 (I0 - I7) Digital Inputs MEP50

Ordine/Requisition	S 20A
Commissa/Order	p.n..732.9139.1
Esecutore/Executer	Mep SpA



Foglio/Page	15
Segue/Follow	16
Ultimo/Last	217

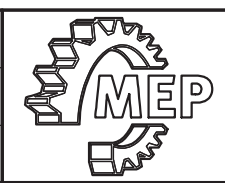


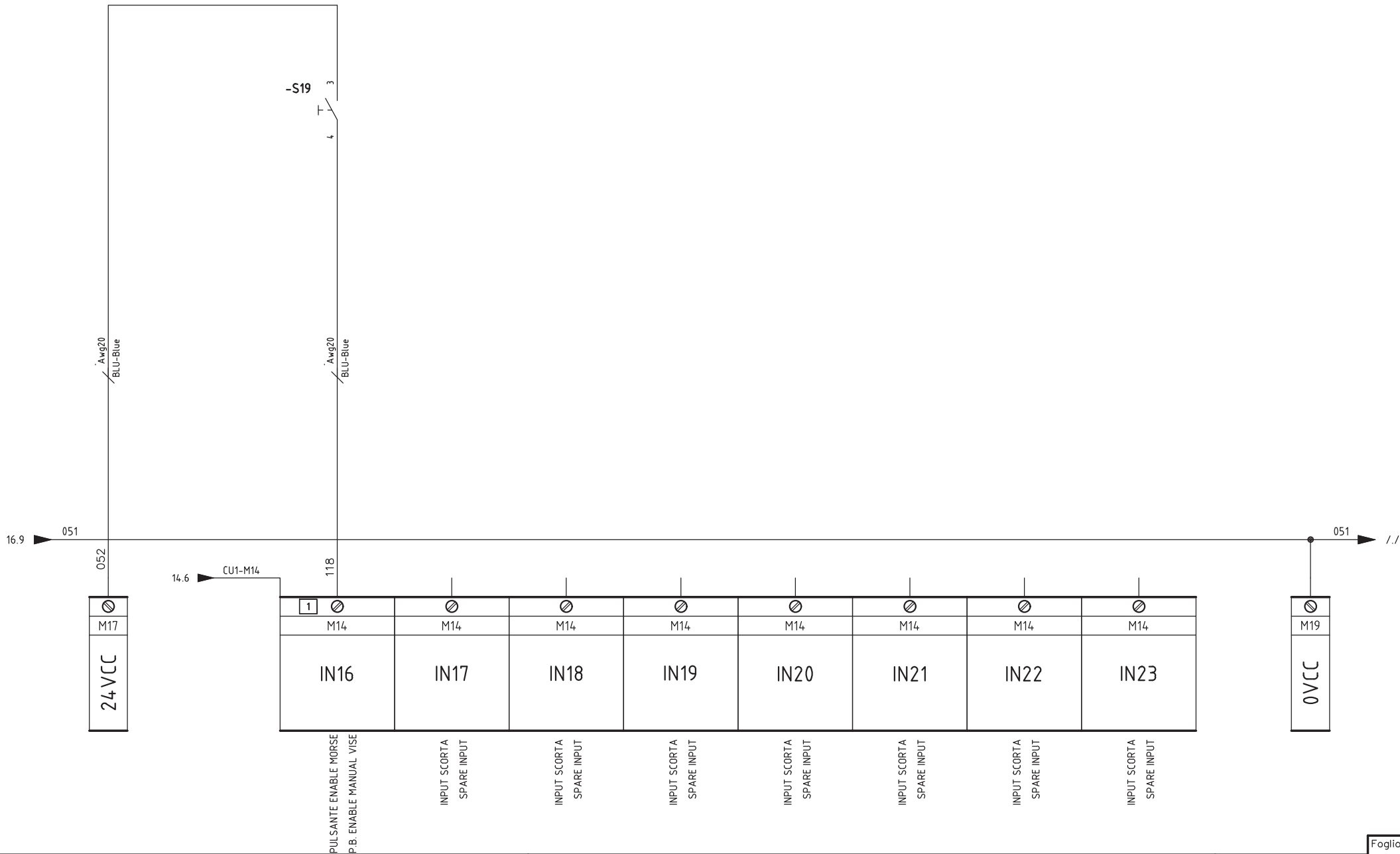
REV.	MODIFICA	DATA	FIRME
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli
R0.0.	First draft	20/10/2017	

Dis. N.	S20A_48060CSA/1022
CAD	SPAC
File	S20A\1.dwg
Data	10/03/2022

Impianto/Plant	S20 A_480/60Hz MEP50 V1
Denominazione/Title	INGRESSI DIGITALI MEP50 (I8- I15) Digital Inputs MEP50

Ordine/Requisition	S 20A
Commessa/Order	p.n..732.9139.1
Esecutore/Executer	Mep SpA



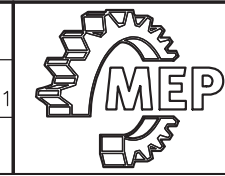


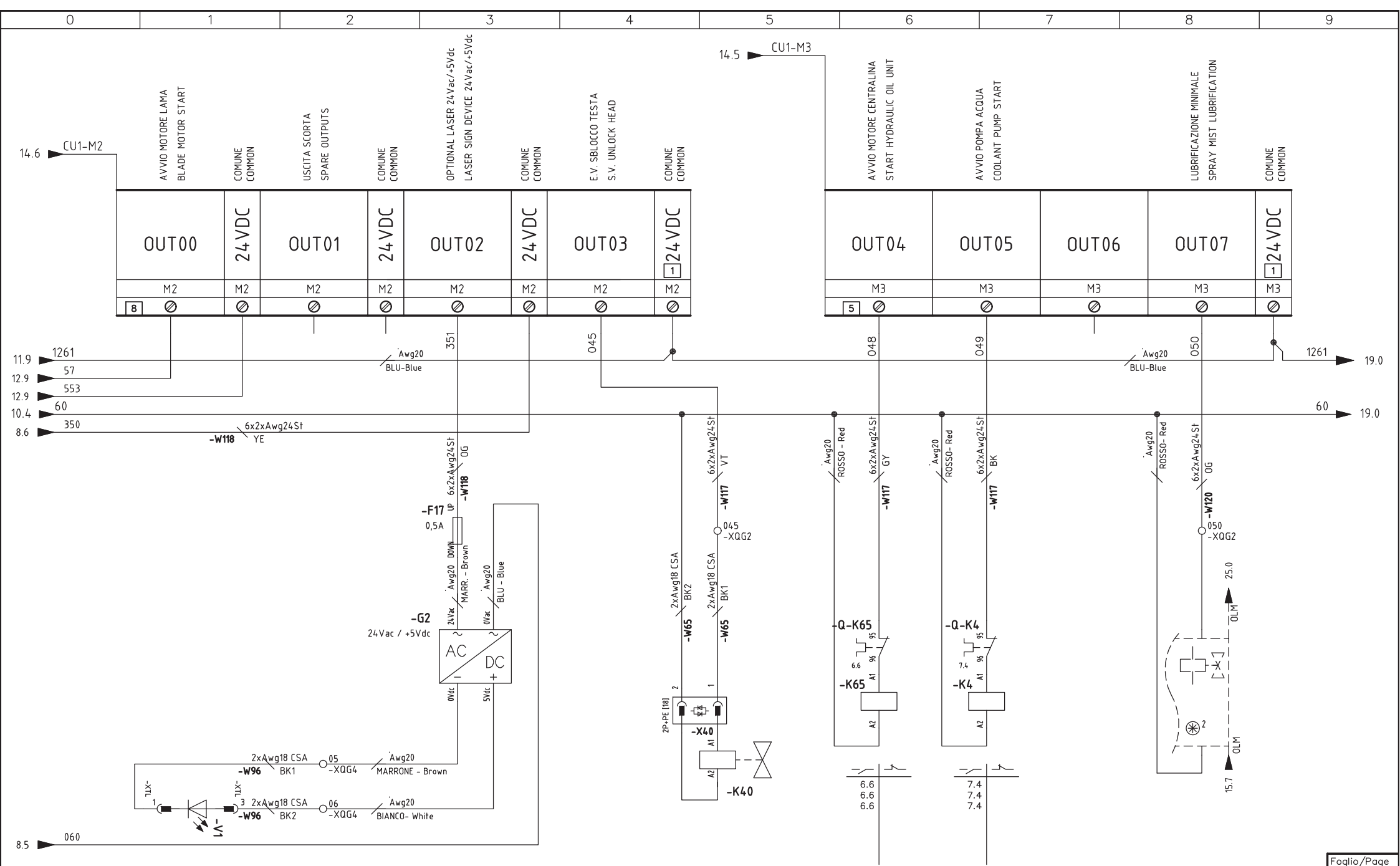
REV.	MODIFICA	DATA	FIRME
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli
R0.0.	First draft	20/10/2017	

Dis. N.	S20A_48060CSA/1022
CAD	SPAC
File	S20A\1.dwg
Data	10/03/2022

Impianto/Plant	S20 A_480/60Hz MEP50 V1
Denominazione/Title	INGRESSI DIGITALI MEP50 (I16- I23) Digital Inputs MEP50

Ordine/Requisition	S 20A
Commissa/Order	p.n..732.9139.1
Esecutore/Executer	Mep SpA



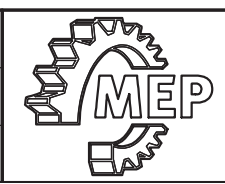


REV.	MODIFICA	DATA	FIRME
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli
R.2.0	Changed Console/keybord on Control Panel	31/08/2020	Solfanelli
R0.0.	First draft	20/10/2017	

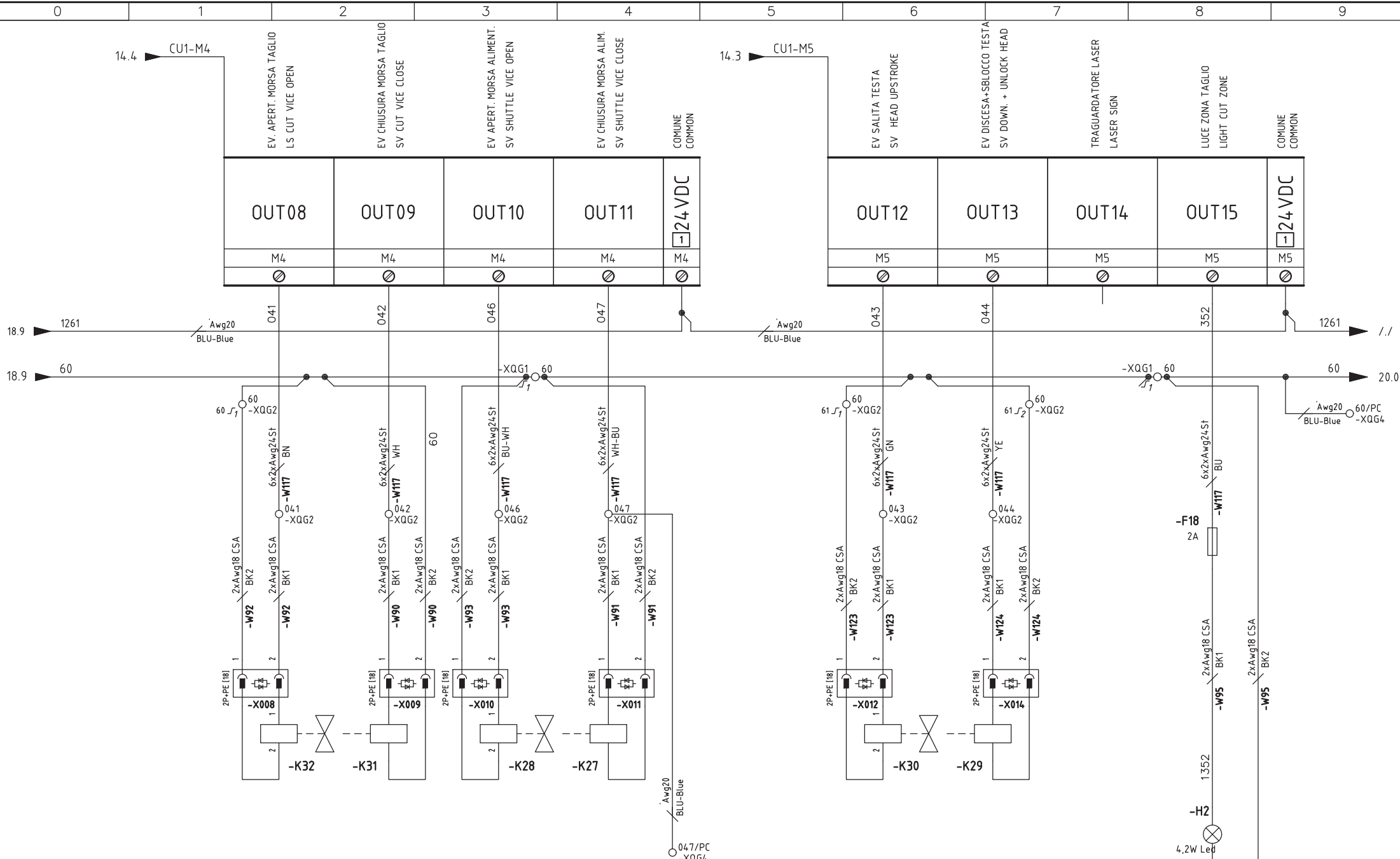
Dis. N.	S20A_48060CSA/1022
CAD	SPAC
File	S20A\1.dwg
Data	10/03/2022

Impianto/Plant	S20 A_480/60Hz MEP50 V1
Denominazione/Title	USCITE DIGITALI MEP50 Digital Output MEP50

Ordine/Requisition	S 20A
Commissa/Order	p.n..732.9139.1
Esecutore/Executer	Mep SpA



Foglio/Page	18
Segue/Follow	19
Ultimo/Last	217

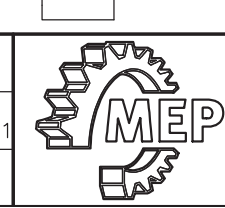


REV.	MODIFICA	DATA	FIRME
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli
R0.0.	First draft	20/10/2017	

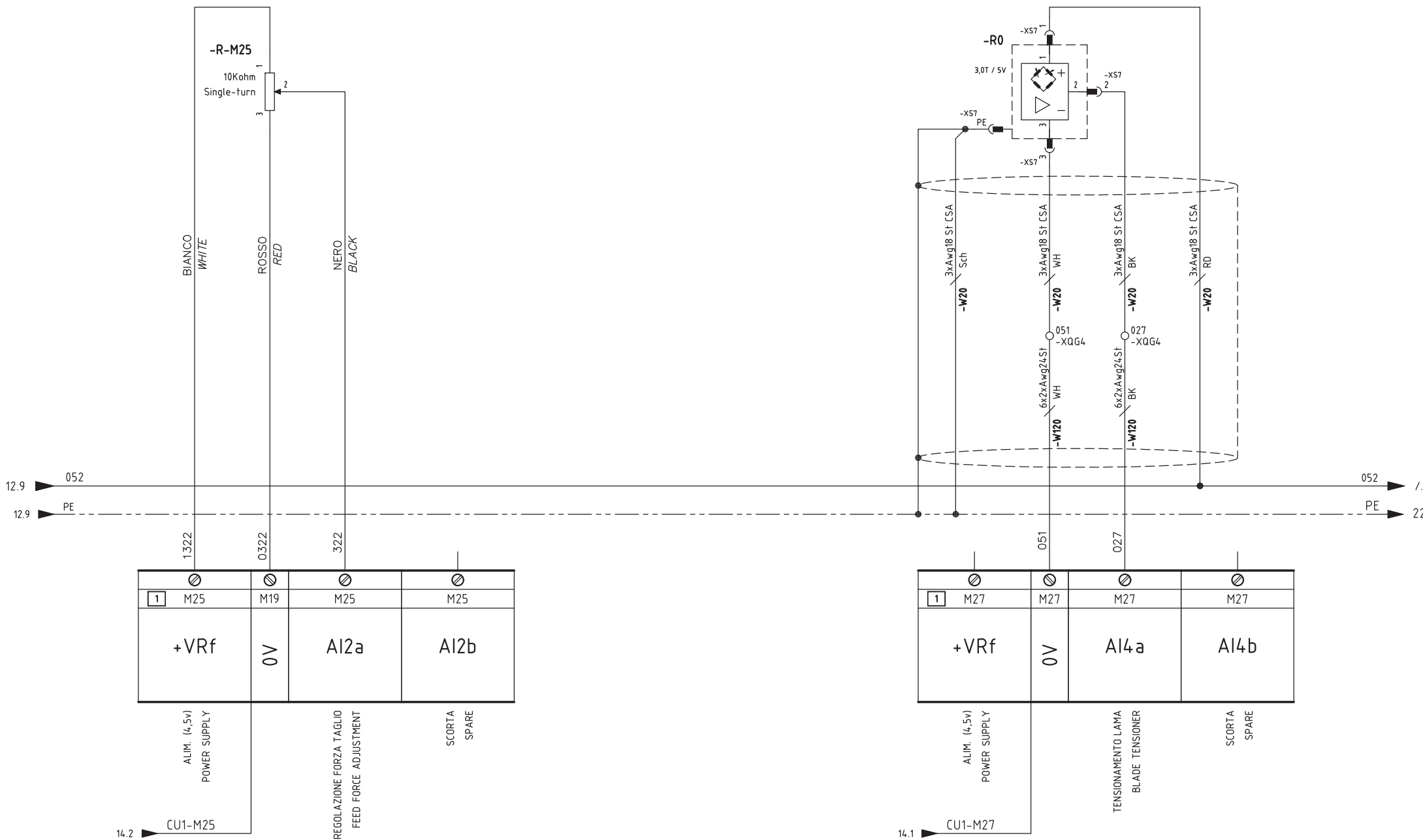
Dis. N.	S20A_48060CSA/1022
CAD	SPAC
File	S20A\1.dwg
Data	10/03/2022

Impianto/Plant	S20 A_480/60Hz MEP50 V1
Denominazione/Title	USCITE DIGITALI MEP50 Digital Output MEP50

Ordine/Requisition	S 20A
Commissa/Order	p.n..732.9139.1
Esecutore/Executer	Mep SpA



Foglio/Page	19
Segue/Follow	20
Ultimo/Last	217

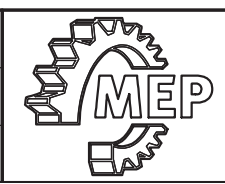


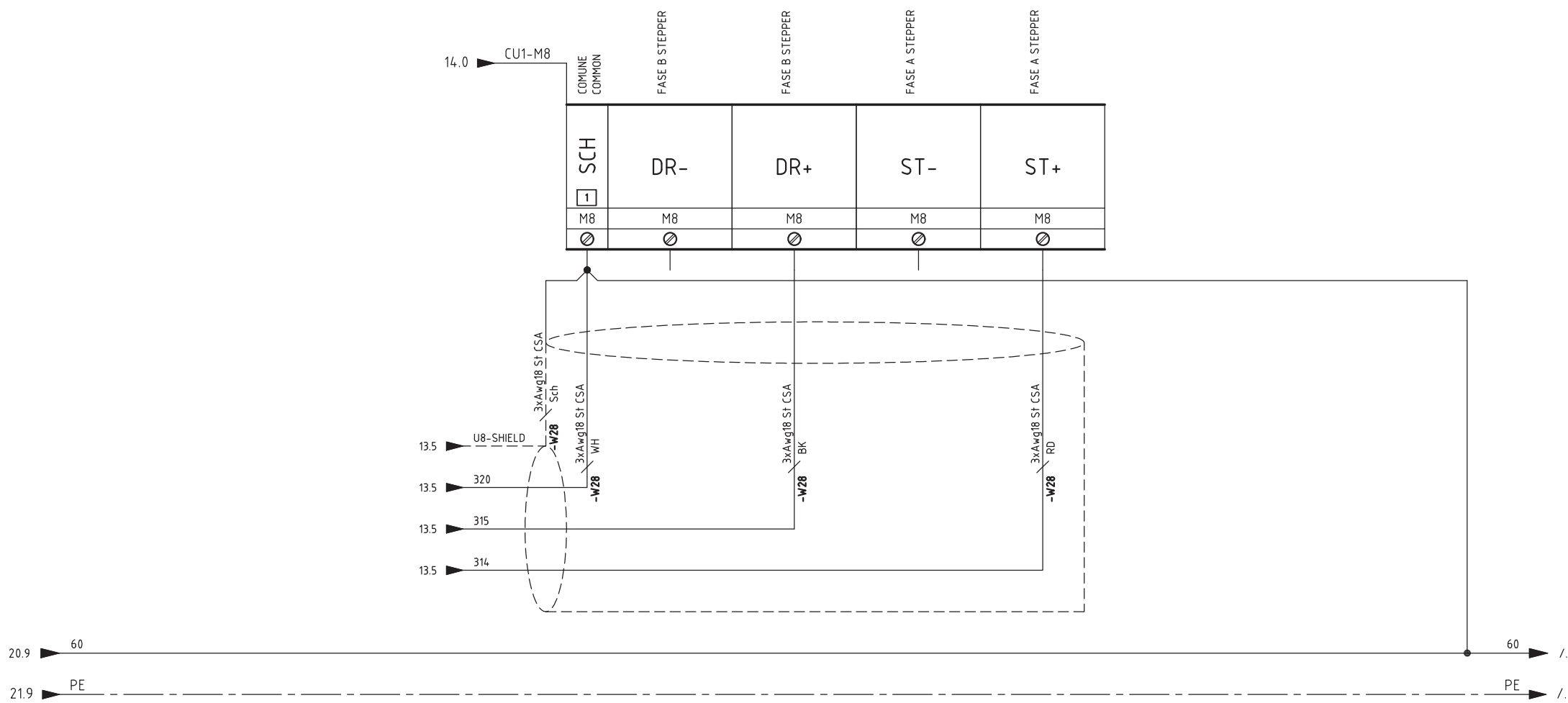
REV.	MODIFICA	DATA	FIRME
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli
R0.0.	First draft	20/10/2017	

Dis. N.	S20A_48060CSA/1022
CAD	SPAC
File	S20A\1.dwg
Data	10/03/2022

Impianto/Plant	S20 A_480/60Hz MEP50 V1
Denominazione/Title	INGRESSI ANALOGICI MEP50 Analog Input MEP50

Ordine/Requisition	S 20A
Commissa/Order	p.n..732.9139.1
Esecutore/Executer	Mep SpA



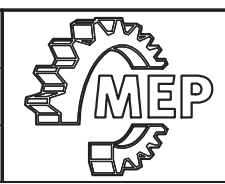


REV.	MODIFICA	DATA	FIRME
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli
R0.0.	First draft	20/10/2017	

Dis. N.	S20A_48060CSA/1022
CAD	SPAC
File	S20A\1.dwg
Data	10/03/2022

Impianto/Plant	S20 A_480/60Hz MEP50 V1
Denominazione/Title	USCITE STEPPER MEP50 Stepper Output MEP50

Ordine/Requisition	S 20A
Commissa/Order	p.n..732.9139.1
Esecutore/Executer	Mep SpA



14.0 CU1-M10

REFERIMENTO VELOCITA LAMA
BLADE SPEED REFERENCE

COMUNE USCITA ANALOGICA
COMMON ANALOG OUTPUT

SCORTA
SPARE

COMUNE USCITA ANALOGICA
COMMON ANALOG OUTPUT

A01

0V

A02

0V

1 M10

M10

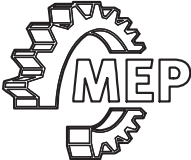
M10

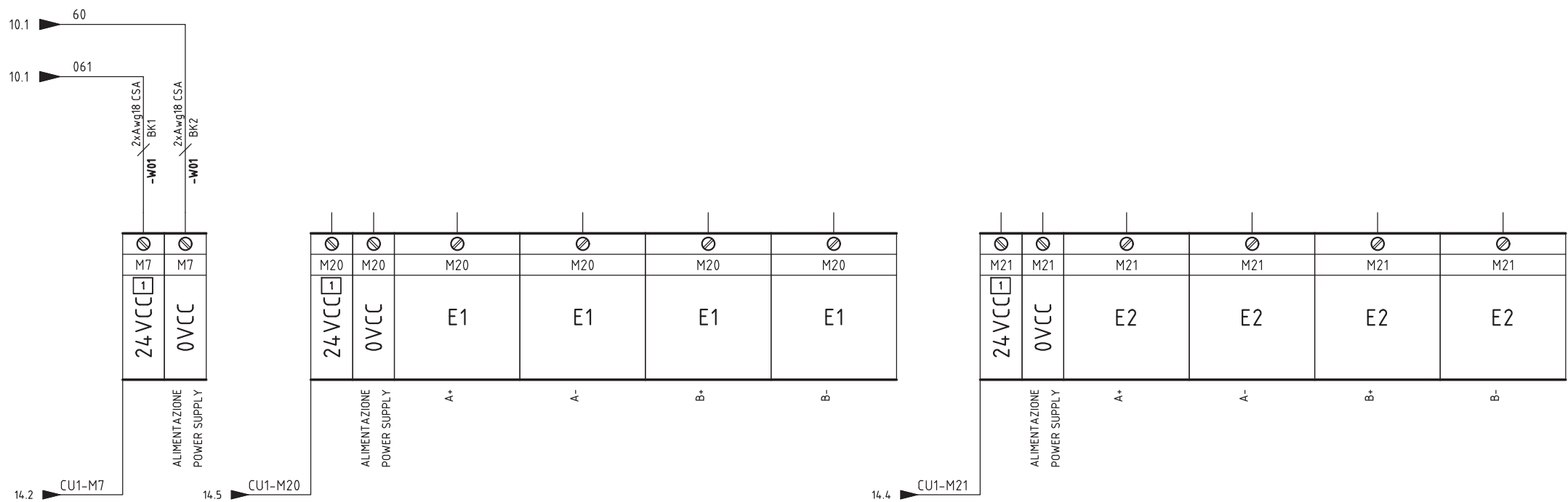
M10

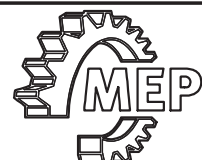
-Z1
TOROID

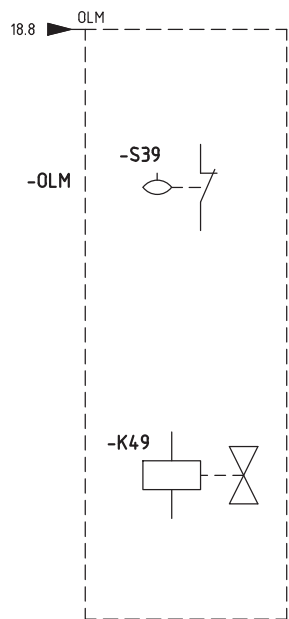
12.9 115_1

12.9 116

				Dis. N. S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1	Ordine/Requisition S 20A		Foglio/Page 23
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD SPAC			Commissa/Order p.n..732.9139.1		Segue/Follow 24
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg	Denominazione/Title	USCITA ANALOGICA E SERIALE MEP50	Esecutore/Executer Mep SpA		Ultimo/Last 217
R0.0.	First draft	20/10/2017		Data 10/03/2022		Analog Output and Serial MEP50			
REV.	MODIFICA	DATA	FIRME						



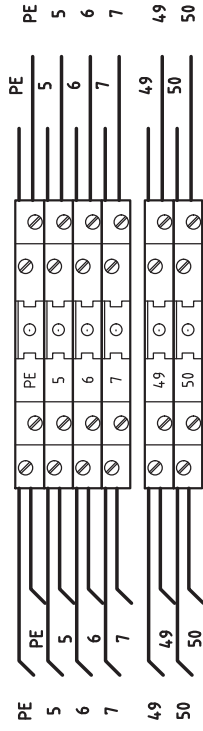
				Dis. N.	S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1		Ordine/Requisition	S 20A			Foglio/Page	24
				CAD	SPAC	File	S20A\1.dwg	Denominazione/Title	Commissa/Order		p.n..732.9139.1		Segue/Follow	25
				Data	10/03/2022	ALIMENTAZIONE E ENCODER PANNELLO		Esecutore/Executer		Mep SpA			Ultimo/Last	217
REV.	MODIFICA			DATA	FIRME	Power Supplay and Panel Encoder								



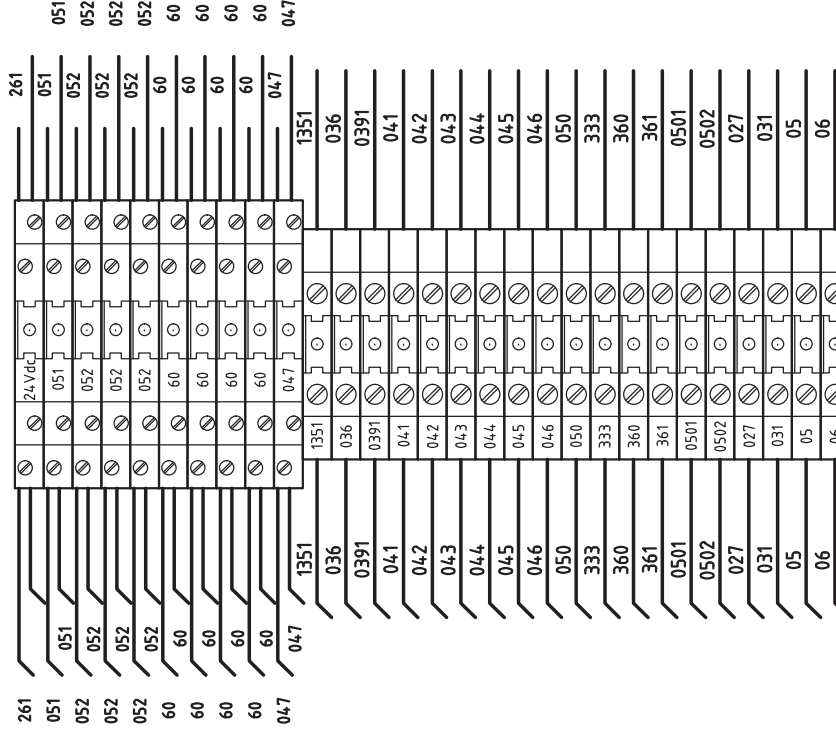
OPTIONAL LUBRIFICAZIONE MINIMALE
 OPTIONAL MICRO-LUBRIFICATION

				Dis. N. S20A_48060CSA/1022	Impianto/Plant	Ordine/Requisition S 20A		Foglio/Page 25
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD SPAC	S20 A_480/60Hz MEP50 V1	Commissa/Order p.n..732.9139.1		Segue/Follow 26
R.2.0	Changed Console/keybord on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg	Denominazione/Title OPTIONAL	Esecutore/Executer Mep SpA		Ultimo/Last 217
R0.0.	First draft	20/10/2017		Data 10/03/2022	<i>Optional</i>			
REV.	MODIFICA	DATA	FIRME					

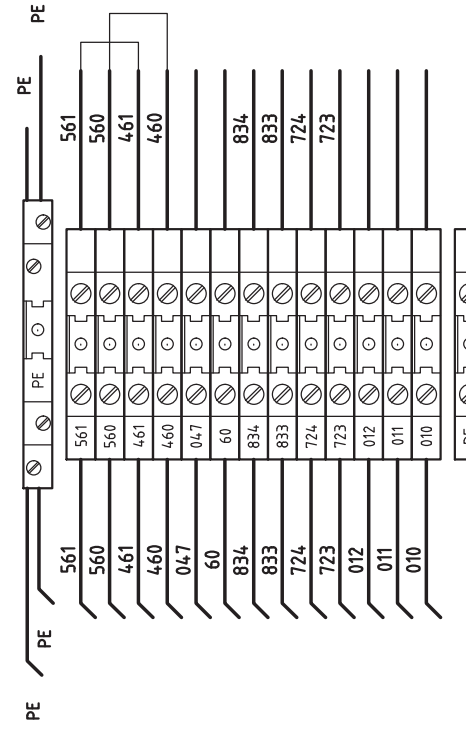
=QgCv - -XQG1



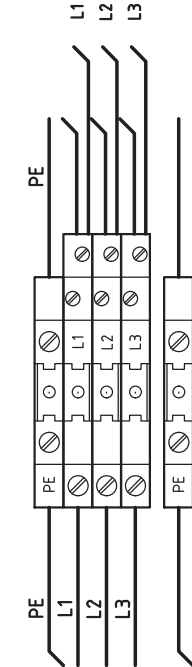
=QgCv - -XQG2



=QgCv - -XQG4

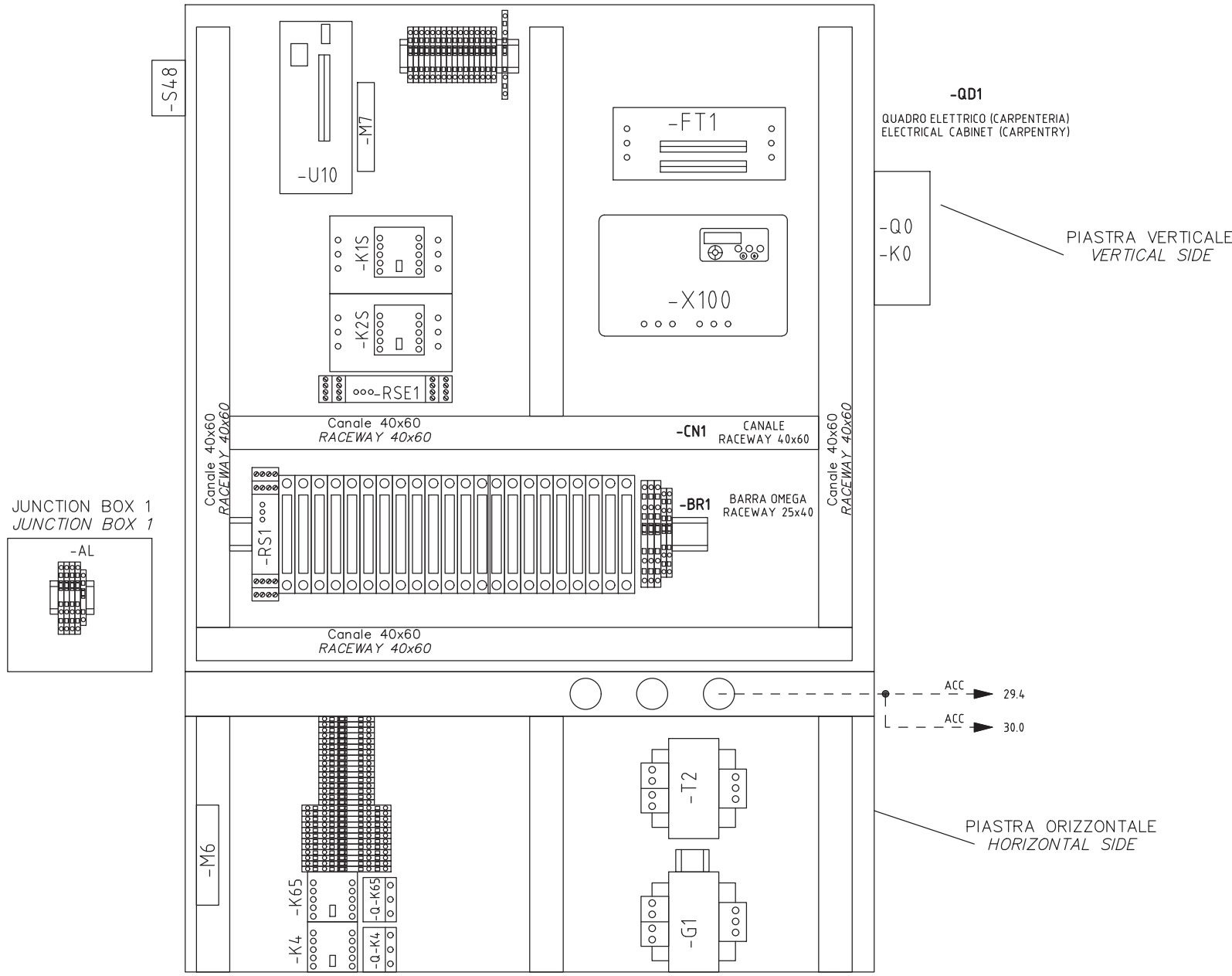


=QgCv -AL



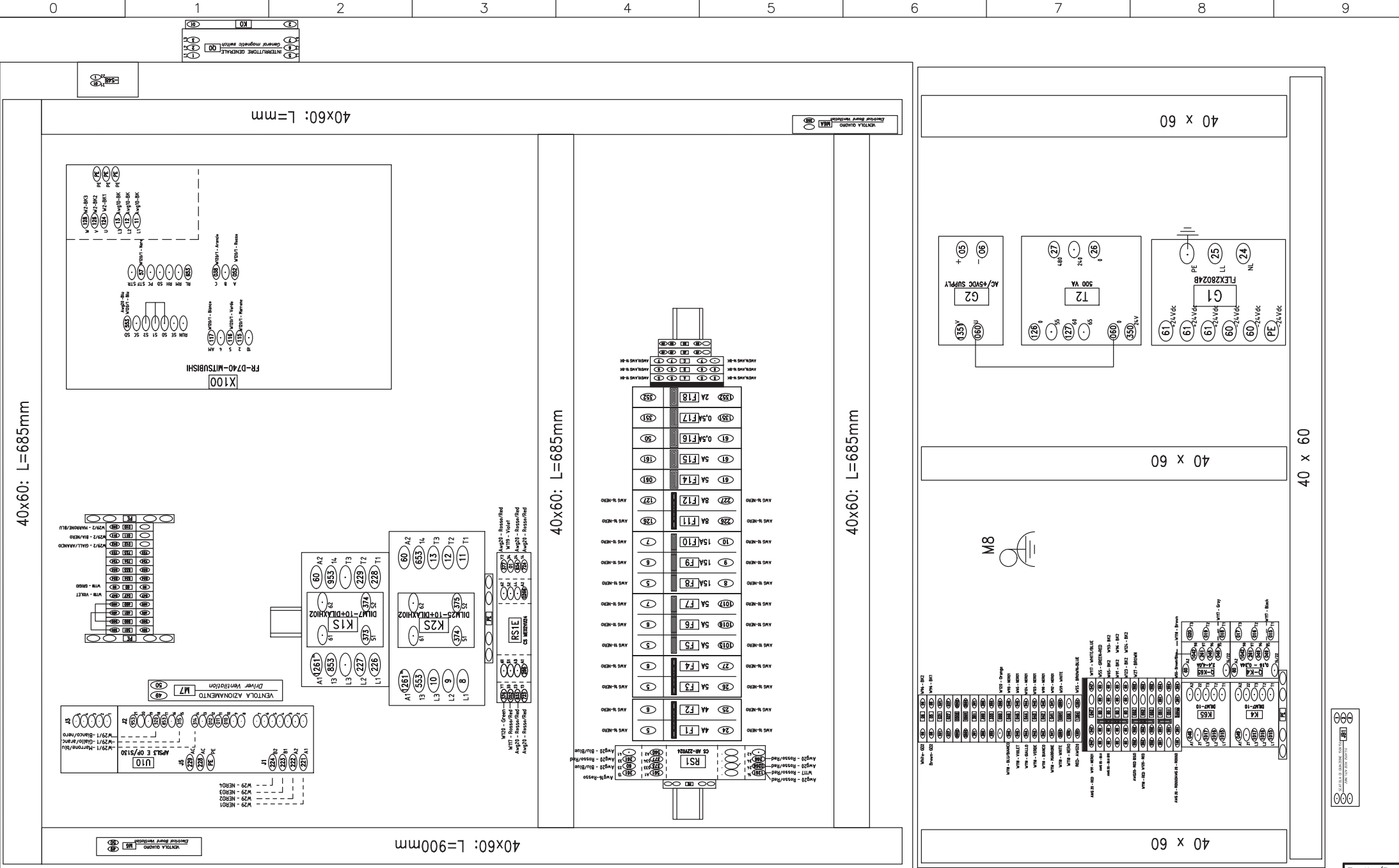
SCATOLA DI GIUNZIONE 1
JUNCTION BOX 1

			Dis. N.	S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1	Ordine/Requisition	S 20A		Foglio/Page	26
			CAD	SPAC			Commessa/Order	p.n..732.9139.1		Segue/Follow	27
R.3.0			Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli					Ultimo/Last	217
R.2.0			Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli						
R0.0.			First draft	20/10/2017							
REV.	MODIFICA	DATA	FIRME								



- FL1 FILO Awg20
WIRE Awg20
- FL2 FILO Awg16
WIRE Awg16
- PT1 PUNTALINO 0,5mmq
TERMINAL 0,5mmq
- PT2 PUNTALINO 1,5mmq
TERMINAL 1,5mmq
- GN
- CC1 CAPICORDA 1,5mmq
TERMINAL 1,5mmq
- NM1 NUMERAZIONE FILI
WIRE NUMERATION
- NM2 NUMERAZIONE MORSETTI
TERMINAL NUMERATION
- FS1 FASCETTA 140x3,5
CLAMP 140x3,5
- TF2 GUARNIZIONE AERSTOP
SEAL AERSTOP

				Dis. N.	S20A_48060CSA/1022	Impianto/Plant	S20 A_480/60Hz MEP50 V1	Ordine/Requisition	S 20A		Foglio/Page	27
				CAD	SPAC	Denominazione/Title	INTERNO QUADRO Board Inside	Commissa/Order	p.n..732.9139.1		Segue/Follow	28
R.3.0				Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli		Esecutore/Executer	Mep SpA		Ultimo/Last	217
R.2.0				Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli						
R.0.0				First draft	20/10/2017							
REV.	MODIFICA			DATA	FIRME							

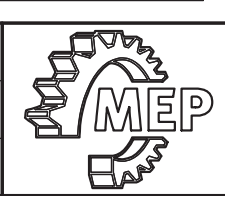


REV.	MODIFICA	DATA	FIRME
R.3.0	Change safety relay module (RS1+RS1E) - sheet 11,11A	10/03/2022	Solfanelli
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli
R0.0.	First draft	20/10/2017	

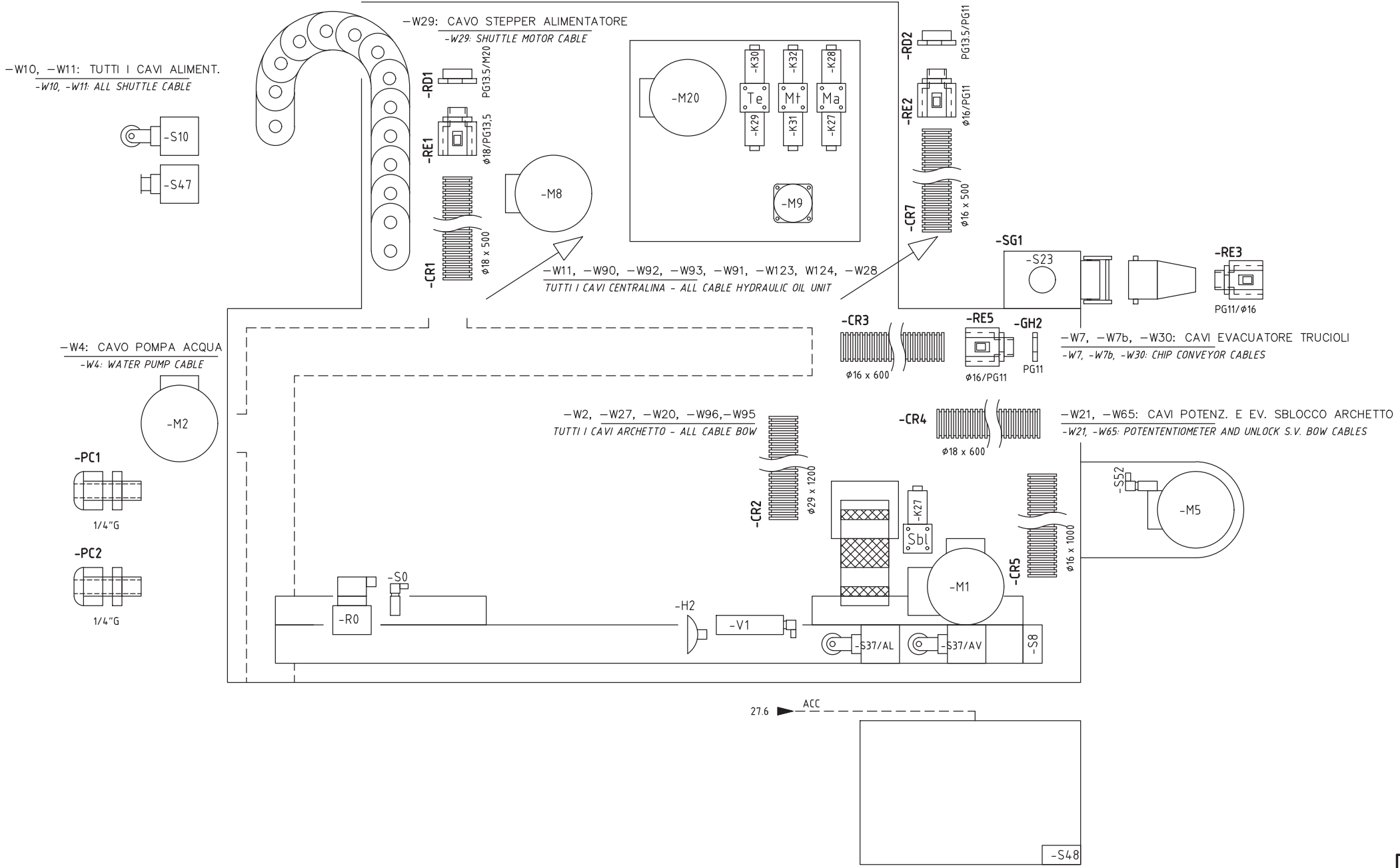
Dis. N.	S20_A_480/60Hz
CAD	SPAC
File	S20A\1.dwg
Data	10/03/2022

Impianto/Plant	S20 A_480/60Hz MEP50 V1
Denominazione/Title	LAYOUT DISTRIBUZIONE CAVI SU GUAINA Layout Conduits

Ordine/Requisition	S 20A
Commessa/Order	p.n..732.9139.1
Esecutore/Executer	Mep SpA



Foglio/Page	28
Segue/Follow	29
Ultimo/Last	217

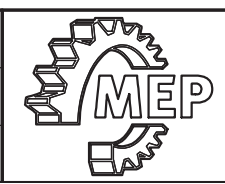


REV.	MODIFICA	DATA	FIRME
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli
R0.0.	First draft	20/10/2017	

Dis. N.	S20A_48060CSA/1022
CAD	SPAC
File	S20A\1.dwg
Data	10/03/2022

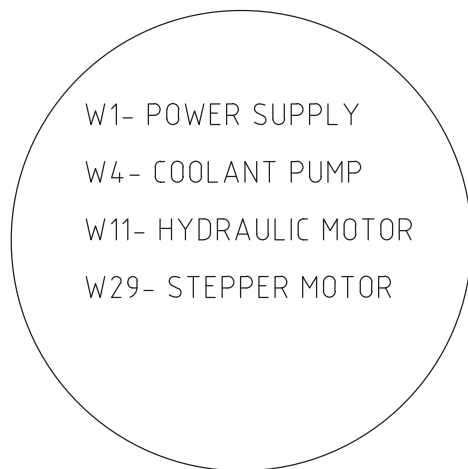
Impianto/Plant	S20 A_480/60Hz MEP50 V1
Denominazione/Title	GUAINI E ACCESSORI Sheaths and Accessories

Ordine/Requisition	S 20A
Commissa/Order	p.n..732.9139.1
Esecutore/Executer	Mep SpA



CONDUILT N°3

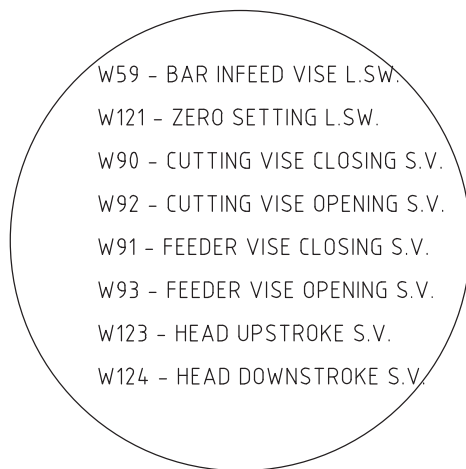
Lenght: 1000mm -- 39"
PG29



27.6 ACC

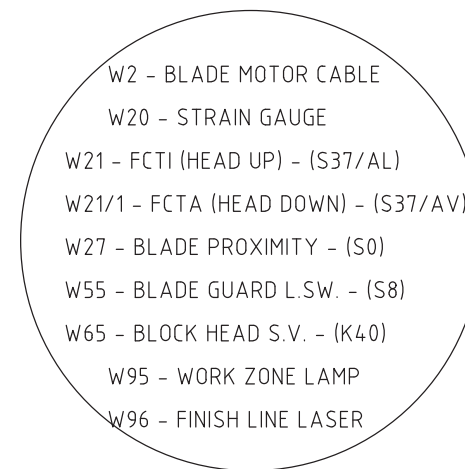
CONDUILT N°2

Lenght: 1000mm -- 39"
PG29



CONDUILT N°1

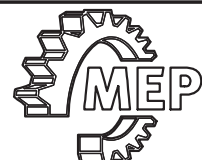
Lenght: 2400mm -- 93"
PG29



				Dis. N. S20A_48060CSA/1022	Impianto/Plant	Ordine/Requisition S 20A		Foglio/Page 30
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD	S20 A_480/60Hz MEP50 V1	Commissa/Order p.n..732.9139.1		Segue/Follow 31
R.2.0	Changed Consolle/keyboard on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg	Denominazione/Title	Esecutore/Executor Mep SpA		Ultimo/Last 217
R0.0.	First draft	20/10/2017		Data 10/03/2022				
REV.	MODIFICA	DATA	FIRME					

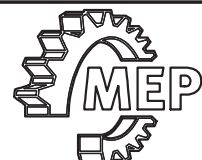
CAVI ESTERNI \ EXTERNAL CABLES

QUADRO \ BOARD									DESTINAZIONE \ LOCATION				
QUADRO BOARD	FOGLIO SHEET	NR. MORSETTO TERMINAL NO.	NR. FILO CONDUCTOR NO.	ID SUL CAVO ID IN CABLE	CAVO CABLE	LUNGHEZZA LENGHT [mt]	DISTURBO NOISE LEVEL	ID SUL CAVO ID IN CABLE	NR. FILO CONDUCTOR NO.	NR. MORSETTO TERMINAL NO.	FOGLIO SHEET	QUADRO BOARD	
=QgCv -F14 =QgCv -XQG1	8/2		061	BK1	-W01 022.1980 PLC Power supply cable	5.0mt		BK1	061				
	10/1	60 1 ○	60	BK2			BK2	60	M7	24/1	24VCC		
											24/1	0VCC	
				BK1	-W1/1 022.0188 General supply cable from trasf.	3.00Mt		BK1					
				BK2			BK2						
				BK3			BK3						
				GNYE			GNYE						
=BmMep -M20	6/6	U	018	BK1	-W11 022.1984 Hydraulic motor cable			BK1	018	T1	6/6	=QgCv -Q-K65	
=BmMep -M20	6/6	V	019	BK2			BK2	019	T2	6/6	=QgCv -Q-K65		
=BmMep -M20	6/7	W	020	BK3			BK3	020	T3	6/7	=QgCv -Q-K65		
=BmMep -M20	6/7	PE	PE	GNYE			GNYE	PE	○ 5 6	6/7	=QgCv -XQGPE		
=QgCv -Q-K4	18/7	95	049	BK	-W117 022.1906			BK	049				
=QgCv -XQG2	19/2	041 ○	041	BN			BN	041	M3	18/7	OUT05		
=QgCv -Q-K65	18/6	95	048	GY			GY	048	M4	19/2	OUT08		
				BU			BU		M3	18/6	OUT04		
				GN			GN						
				YE			YE						
				WH			WH						
=QgCv -XQG2	18/5	045 ○		VT			VT			M2	18/4	OUT03	
				RD			RD						
				OG			OG	351		M5	19/7	OUT14	
=QgCv -F17A	19/7		046	BU-WH	BU-WH	046		M4	19/3	OUT10			
=QgCv -XQG2	19/3	046 ○	047	WH-BU	WH-BU	047		M4	19/4	OUT11			
=QgCv -XQG2	19/4	047 ○		Sch	Sch								

			Dis. N. S20A_48060CSA/1022	Impianto/Plant S20 A_480/60Hz MEP50 V1	Ordine/Requisition S 20A		Foglio/Page 31
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD SPAC	Commessa/Order p.n..732.9139.1		Segue/Follow 32
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg	Esecutore/Executer Mep SpA		Ultimo/Last 217
R0.0.	First draft	20/10/2017		Data 10/03/2022	Denominazione/Title RIASSUNTIVO CAVI <i>Cable summary</i>		
REV.	MODIFICA	DATA	FIRME				

CAVI ESTERNI \ EXTERNAL CABLES

QUADRO \ BOARD				ID SUL CAVO \ ID IN CABLE					DESTINAZIONE \ LOCATION			
QUADRO BOARD	FOGLIO SHEET	NR. MORSETTO TERMINAL NO.	NR. FILO CONDUCTOR NO.	ID SUL CAVO ID IN CABLE	CAVO CABLE	LUNGHEZZA LENGHT [mf]	DISTURBO NOISE LEVEL	ID SUL CAVO ID IN CABLE	NR. FILO CONDUCTOR NO.	NR. MORSETTO TERMINAL NO.	FOGLIO SHEET	QUADRO BOARD
=BmMep -S10	16/4	4	110	BK	-W118 022.1906			BK	110	O 0391	16/4	=QgCv -XQG4
				BN				BN				
				GY				GY				
				BU				BU				
				GN				GN				
				YE				YE				
				WH				WH				
				VT				VT				
				RD				RD				
				OG				OG				
=QgCv -XQG4	15/6	0501 O	28	BU-WH				BU-WH	28	M15	15/6	IN05
				WH-BU				WH-BU				
=QgCv -XQG4	15/8	0502 O	0502	Sch				Sch		M15	15/7	IN07
=QgCv -XQG2	11/1	027 O	461	BK				BK	027		11/0	=QgCv -S4
				BN				BN				
				GY				GY				
=QgCv -XQG2	11/1	460 O	460	BU				BU		2		
=QgCv -S3	11/4	4	376	GN				GN	376	CS AR-24	11/5	=QgCv -R-S1
				YE				YE				
=QgCv -S3	11/4	3	375	WH	-W120 022.1906			WH	051	52	11/4	-K2S
	051 O	051	VT	VT								
=QgCv -XQG4	11/0	360 O	560	BU-WH				BU-WH	560	1	11/0	=QgCv -S4
				WH-BU				WH-BU				
=QgCv -XQG4	11/1	361 O	???	Sch				Sch				
=QgCv -XQG2	12/7	052 2 O	052	BN	-W120/1 022.1905			BN	052	A	12/1	
				BK				BK				
				BU				BU				
				GN				GN				
				RD				RD				
				YE				YE				
				WH				WH				
				OG				OG				
				Sch				Sch				
				A11a				20/8				
OG	OG											
IN04	15/5	M15	038	Sch				Sch		C	12/2	

				Dis. N. S20A_48060CSA/1022	Impianto/Plant S20 A_480/60Hz MEP50 V1	Ordine/Requisition S 20A		Foglio/Page 32
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD SPAC		Commissa/Order p.n..732.9139.1		Segue/Follow 33
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg	Denominazione/Title RIASSUNTIVO CAVI	Esecutore/Executer Mep SpA		Ultimo/Last 217
R0.0.	First draft	20/10/2017		Data 10/03/2022	<i>Cable Summary</i>			
REV.	MODIFICA	DATA	FIRME					

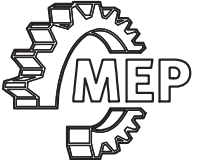
CAVI ESTERNI \ EXTERNAL CABLES

QUADRO \ BOARD				ID SUL CAVO \ ID IN CABLE					DESTINAZIONE \ LOCATION			
QUADRO BOARD	FOGLIO SHEET	NR. MORSETTO TERMINAL NO.	NR. FILO CONDUCTOR NO.	ID SUL CAVO ID IN CABLE	CAVO CABLE	LUNGHEZZA LENGHT [mt]	DISTURBO NOISE LEVEL	ID SUL CAVO ID IN CABLE	NR. FILO CONDUCTOR NO.	NR. MORSETTO TERMINAL NO.	FOGLIO SHEET	QUADRO BOARD
				BK	-W121 022.0398 Zero setting shuttle limit switch	3.50M†		BK				
				BU				BU				
				BN				BN				
				WH				WH				
=QgCv -XQG2 =QgCv -XQG1	19/6	043 ○	012	BK1	-W123 022.1980			BK1	012	2	19/6	=QgCv -X012
	19/8	1 ○	60	BK2				BK2	60		1	19/6
				BK	-W124 022.1980 SV head down cable	3.00M†		BK				
				BK2				BK2				
				BK1				BK1				
				BK2				BK2				
=BmMep -M1	6/1	PE	PE	BK1	-W2 022.1977 Blade motor cable	5.50M†		BK1				
				BK2				BK2				
				BK3				BK3				
				GNYE				GNYE				
				Sch				Sch	PE	PE	6/3	=QgCv -X100
=QgMep -XS7 =QgMep -XS7 =QgMep -XS7 =QgMep -XS7	21/7	1 ☾	052	RD	-W20 022.1981 Strain gauge, Blade load cell sensor	6,0 mt		RD	052	○ 052 2 M27 M27	12/7	=QgCv -XQG2
	21/7	2 ☾	027	BK				BK	027		21/7	AI4a
	21/7	3 ☾	051	WH				WH	051		21/7	0V
	21/6	PE ☾	PE	Sch				Sch	PE			
=BmMep -S37/AL =BmMep -S37/AL	15/6	4	052	BK	-W21 022.0397 Head potentiometer cable	5.00M†		BK	052	○ 052 ○ 0501	15/6	=QgCv -XQG4
	15/6	3	29	BU				BU	29		15/6	=QgCv -XQG4
				BN				BN				
				WH				WH				
=QgCv -XQG4 =QgCv -XQG4	15/8	052 ○	052	BK	-W21/1 022.0397			BK	052			
	15/8	0502 ○	0502	BU				BU	0502			
				BN				BN				
				WH				WH				

				Dis. N. S20A_48060CSA/1022	Impianto/Plant S20 A_480/60Hz MEP50 V1	Ordine/Requisition S 20A		Foglio/Page 33
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD SPAC		Commissa/Order p.n..732.9139.1		Segue/Follow 34
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg	Denominazione/Title RIASSUNTIVO CAVI	Esecutore/Executer Mep SpA		Ultimo/Last 217
R0.0.	First draft	20/10/2017		Data 10/03/2022	<i>Cable Summary</i>			
REV.	MODIFICA	DATA	FIRME					

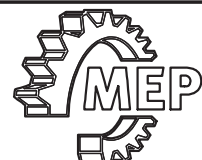
CAVI ESTERNI \ EXTERNAL CABLES

QUADRO \ BOARD				DESTINAZIONE \ LOCATION								
QUADRO BOARD	FOGLIO SHEET	NR. MORSETTO TERMINAL NO.	NR. FILO CONDUCTOR NO.	ID SUL CAVO ID IN CABLE	CAVO CABLE	LUNGHEZZA LENGHT [m]	DISTURBO NOISE LEVEL	ID SUL CAVO ID IN CABLE	NR. FILO CONDUCTOR NO.	NR. MORSETTO TERMINAL NO.	FOGLIO SHEET	QUADRO BOARD
				BK	-W27 022.0398 Blade proximity cable	7.00m†		BK				
				BU				BU				
				BN				BN				
				WH				WH				
=QgCv =QgCv =QgCv SCH	13/2 13/2 13/2 22/3	14 15 18 M8	314 315 320 ???	RD	-W28 022.1981 Step/direction Out Mep50	6,0m†		RD	314	M8	22/6	ST+
				BK				BK				
				WH				WH				
				Sch				Sch				
				BK1	-W29 022.1979 Power stepper motor cable	4.00m†		BK1				
				BK2				BK2				
				BK3				BK3				
				BK4				BK4				
				GNYE				GNYE				
=QgCv -XQG4 =QgCv -XQG4 =QgCv -XQG4 =QgCv -XQG4 =QgCv -XQG4	13/6 13/6 13/6 13/6 13/6	PE ○ 010/PC ○ 011/PC ○ 012/PC ○ PE ○	13 010 011 012 13	GN-RD	-W29/2 022..1905			GN-RD	13			
				BN -BU				BN -BU				
				WH-BK				WH-BK				
				YE-OG				YE-OG				
				Sch				Sch				
=QgCv -X015	7/4	015 ○	123	BK1	-W4 022.1984 Coolant pump motor cable			BK1	123	T1	7/4	=QgCv -Q-K4
				BK2				BK2				
				BK3				BK3				
				GNYE				GNYE				
=BmMep -M2 =BmMep -M2	7/4 7/5	U V	015 124	BK1	-W4/1 022.1984 Coolant pump Single phase	3,0 m†		BK1	015	○ 015	7/4	=QgCv -X015
				BK2				BK2				
				BK3				BK3				
=QgCv -XQGPE	7/5	PE ○	7	GNYE				GNYE	7		7/5	=QgCv -X016

				Dis. N. S20A_48060CSA/1022	Impianto/Plant S20 A_480/60Hz MEP50 V1	Ordine/Requisition S 20A		Foglio/Page 34
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD SPAC		Commessa/Order p.n..732.9139.1		Segue/Follow 35
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg	Denominazione/Title RIASSUNTIVO CAVI	Esecutore/Executor Mep SpA		Ultimo/Last 217
R0.0.	First draft	20/10/2017		Data 10/03/2022	<i>Cable Summary</i>			
REV.	MODIFICA	DATA	FIRME					

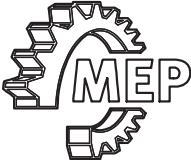
CAVI ESTERNI \ EXTERNAL CABLES

QUADRO \ BOARD				DESTINAZIONE \ LOCATION											
QUADRO BOARD	FOGLIO SHEET	NR. MORSETTO TERMINAL NO.	NR. FILO CONDUCTOR NO.	ID SUL CAVO ID IN CABLE	CAVO CABLE	LUNGHEZZA LENGHT [mt]	DISTURBO NOISE LEVEL	ID SUL CAVO ID IN CABLE	NR. FILO CONDUCTOR NO.	NR. MORSETTO TERMINAL NO.	FOGLIO SHEET	QUADRO BOARD			
=BmMep -S8 =BmMep -S8 =BmMep -S8 =BmMep -S8	11/0 11/1 11/0 11/1	11	60	GN-RD	-W55 022.1905			GN-RD	60	○ 60 1	10/1	=QgCv -XQG1			
		21	261	BN -BU				BN -BU	261				10/3	=QgCv -XQG2	
		12	360	WH-BK				WH-BK	360				11/0	=QgCv -XQG4	
		22	361	YE-OG				YE-OG	361				11/1	=QgCv -XQG4	
				Sch				Sch							
=QgCv -XQG4 =BmMep -S10	16/4 16/4	0391 ○	0391	BN	-W59 022.0424			BN	0391	M18	16/4	IN10			
		3	052	BK				BK					052	16/3	=QgCv -XQG4
				BU				BU							
				WH				WH							
				BK1	-W65 022.1980			BK1							
			BK2	BK2											
=QgCv -XQG1	10/3	60 2 ○	60	BK	-W90 022.1980	3.00Mt		BK	60	2	19/3	=QgCv -X009			
				BK2				BK2							
=QgCv -XQG1	19/3	1 ○	60	BK	-W91 022.1980	3.00Mt		BK	60	2	19/4	=QgCv -X011			
				BK2				BK2							
=QgCv -XQG1	19/3	1 ○	60	BK	-W92 022.1980	3.00Mt		BK	60	1	19/1	=QgCv -X008			
				BK2				BK2							
=QgCv -XQG2 =QgCv -XQG1	19/3	046 ○	010	BK1	-W93 022.1980	3.00Mt		BK1	010	2	19/3	=QgCv -X010			
		1 ○	60	BK2				BK2					60	1	19/3
=BmMep -H2	19/8		1352	BK1	-W95 022.1980	5.00Mt		BK1	1352		19/8	=QgCv -F18			
				BK2				BK2							
=QgCv -XQG4 =QgCv -XQG4	18/2	05 ○	9	BK1	-W96 022.1980	8,00 mt		BK1	9	← 1	18/1	=QgCv -XTL			
		06 ○	10	BK2				BK2					10	← 3	18/1

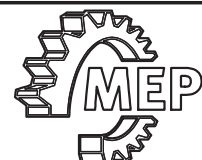
				Dis. N. S20A_48060CSA/1022	Impianto/Plant S20 A_480/60Hz MEP50 V1	Ordine/Requisition S 20A		Foglio/Page 35
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD SPAC		Commessa/Order p.n..732.9139.1		Segue/Follow 36
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg	Denominazione/Title RIASSUNTIVO CAVI	Esecutore/Executer Mep SpA		Ultimo/Last 217
R0.0.	First draft	20/10/2017		Data 10/03/2022	<i>Cable Summary</i>			
REV.	MODIFICA	DATA	FIRME					

CAVI ESTERNI \ EXTERNAL CABLES

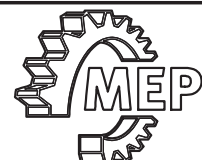
QUADRO \ BOARD									DESTINAZIONE \ LOCATION			
QUADRO BOARD	FOGLIO SHEET	NR. MORSETTO TERMINAL NO.	NR. FILO CONDUCTOR NO.	ID SUL CAVO ID IN CABLE	CAVO CABLE	LUNGHEZZA LENGHT [mt]	DISTURBO NOISE LEVEL	ID SUL CAVO ID IN CABLE	NR. FILO CONDUCTOR NO.	NR. MORSETTO TERMINAL NO.	FOGLIO SHEET	QUADRO BOARD
=QgCv -F13 =QgCv -F17	8/6 18/3			BN	-W96A 022.0355 Laser cable	5.00Mt		BN	1150		18/3	24 VDC OUT02
				BK				BK				
				BU				BU				
			1150	BK1	-WTL 022.1980 Laser Sign cable device	3,0 mt		BK1	M2			
		UP	1151	BK2				BK2	M2			

				Dis. N. S20A_48060CSA/1022	Impianto/Plant S20 A_480/60Hz MEP50 V1	Ordine/Requisition S 20A		Foglio/Page 36
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD SPAC		Commessa/Order p.n..732.9139.1		Segue/Follow 37
R.2.0	Changed Consolle/keyboard on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg	Denominazione/Title RIASSUNTIVO CAVI	Esecutore/Executor Mep SpA		Ultimo/Last 217
R0.0	First draft	20/10/2017		Data 10/03/2022	<i>Cable Summary</i>			
REV.	MODIFICA	DATA	FIRME					

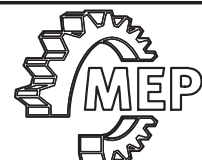
0	1	2	3	4	5	6	7	8	9
Nome/Item	Tipo/Type	Descrizione/Description	Descrizione EN (Db)	Codice Interno	Quadro/Board	Fg/Sh	Q.ta/Q.ty		
-GN	022.0293	Terminale a giunto (Rosso)	Wire Terminal Connection Red	1,5mmq F1615 PSK	=BmCv	27	1		
-JB1	016.1272	Scatola derivazione metallica	Metal junction box?	150x150 P:100	=BmCv	5	1		
-CR1	022.2602	Guaina POLIFLEX Ø18	Poliflex Covering Ø18	NW 14-1200143	=BmMep	29	1		
-CR2	022.2604	Guaina POLIFLEX Ø29	Poliflex covering Ø29	NW 23-1200232	=BmMep	29	1		
-CR3	022.2601	Guaina POLIFLEX Ø16	Poliflex Covering Ø16	NW 12-1200127	=BmMep	29	1		
-CR4	022.2602	Guaina POLIFLEX Ø18	Poliflex Covering Ø18	NW 14-1200143	=BmMep	29	1		
-CR5	022.2601	Guaina POLIFLEX Ø16	Poliflex Covering Ø16	NW 12-1200127	=BmMep	29	1		
-GH2	022.0245	Dado grigio		PG11	=BmMep	29	1		
-H2	022.3255	Faro Led 4,2W 16/36 VCC 330LM	LED LIGHT 4,2W 16/36 VCC 330LM		=BmMep	19	1		
-K27	022.0429	Connettore EV idra. in DC con varistore (V1401)	Connector for solenoid valve DC with varistor	2 poli + PE - V1401 SHIELD	=BmMep	19	1		
-K29	022.0429	Connettore EV idra. in DC con varistore (V1401)	Connector for solenoid valve DC with varistor	2 poli + PE - V1401 SHIELD	=BmMep	19	1		
-K31	022.0429	Connettore EV idra. in DC con varistore (V1401)	Connector for solenoid valve DC with varistor	2 poli + PE - V1401 SHIELD	=BmMep	19	1		
-M1	019.2152	Motore KW 4,4 277/480V 12/7A		019.2152	=BmMep	6	1		
-M2	028.1052.1	Elettropompa trifase 480.60		PAUL 35/120	=BmMep	7	1		
-M8	019.3407	Motore stepper 12Nmt 6A 1,8°	Stepper motor 12Nmt 6A 1,8°	FL886TH156-5708AL FULLING	=BmMep	9	1		
-M20	019.4014	Motore centralina C80-B14, 1.1KW 230-400-415(4.70-2.70) 1420rpm, 1.3KW 277-480(4.70-2.70) 1700rpm CSA	Motor oil unit 1.1KW 230-400(4.70-2.70) 1420rpm, 1.3KW 277-480(4.70-2.70) 1700rpm CSA	019.4014	=BmMep	6	1		
-PC1	022.0232	Pressacavo metallico	Metal Cable Gland	1/4"G	=BmMep	29	1		
-PC2	022.0232	Pressacavo metallico	Metal Cable Gland	1/4"G	=BmMep	29	1		
-RD1	022.0349	Riduzione	Joint Reduction	M/F M20/PG13,5	=BmMep	29	1		
-RD2					=BmMep	29	1		
-RE1	022.0211	Raccordo rapido dritto	Rapid straight joint SEM PG13,5/Ø19	SEM PG13,5/Ø19	=BmMep	29	1		
-RE2					=BmMep	29	1		
-RE5	022.0210	Raccordo rapido dritto	Rapid straight Joint PG11/Ø16	SEM PG11/Ø16	=BmMep	29	1		
-S0	022.0522	Sensore di prossimità PNP lungo conn. M12	Proximity sensor PNP long with M12 connector.	B00122-DIS388 - SELET	=BmMep	15	1		
-S3	022.0937	Contatto pulsantiera NA	Normally open contact	M22-K10 cod. 216376 Moeller	=BmMep	16	2		
	022.0911	Portacontatti per pulsantiera	Carrier for pushbutton	M22-A cod. 216374			1		
	022.1408	Pulsante blu	Blue push button	M22-D-B cod. 216600			1		
-S8	022.0544	Finecorsa a chiave 2 NC	Limit Switch with fork 2NC	FR 993-D10 PIZZATO	=BmMep	11	1		
-S10	022.0543	Finecorsa a rotella 1NO+1NC conn. M12 laterale	Limit Switch with roll 1NO+1NC	NB B110BB-DMK PIZZATO	=BmMep	16	1		
-S19	022.0937	Contatto pulsantiera NA	Normally open contact	M22-K10 cod. 216376 Moeller	=BmMep	17	1		
	022.0911	Portacontatti per pulsantiera	Carrier for pushbutton	M22-A cod. 216374			1		
	022.1405	Pulsante nero	Black push button	M22-D-S cod. 216590			1		
-S37/AL	022.0543	Finecorsa a rotella 1NO+1NC conn. M12 laterale	Limit Switch with roll 1NO+1NC	NB B110BB-DMK PIZZATO	=BmMep	15	1		
-S37/AV	022.0543	Finecorsa a rotella 1NO+1NC conn. M12 laterale	Limit Switch with roll 1NO+1NC	NB B110BB-DMK PIZZATO	=BmMep	15	1		
-S47	022.0543	Finecorsa a rotella 1NO+1NC conn. M12 laterale	Limit Switch with roll 1NO+1NC	NB B110BB-DMK PIZZATO	=BmMep	16	1		
-SG1	016.1271	Scatola derivazione metallica	Metal junction box?	95x95 P.70	=BmMep	29	1		
-V1	022.0513	Traguardatore laser a riga 18x140 5Vcc 650nm 5mW e conn. M12	Laser Line Sign	M4505A4NL0 - LT1S20 - Lasertech	=BmMep	18	1		
-G2	022.0909	Alimentatore Lineare Vi 4-28Vac/dc Vu 1,2-24Vdc 2A	Linear power supply Vi 4-28Vac/dc Vu 1,2-24Vdc 2A	PFALVP3 AdelSystem	=LuTrMep	18	1		
	022.2258	Interruttore automatico magnetotermico sezionatore tripolare Morsetto da 2.5 mm singolo per 4 fili a molla 56.703.5155.0	Quadruple pole spring terminal 2,5mmq	56.703.5155.0	=QgCv	13	1		
-AL	022.2256	Morsetto da 2.5 mm singolo per 2 fili a molla	Single pole spring terminal 2,5mmq	56.703.0055.0	=QgCv		5		
	10 mm	Morsetto da 10 mm non abbinato a costruttore					8		
	2.5 mm	Morsetto da 2.5 mm non abbinato a costruttore					6		
-BR1	022.0900	Barra omega	Omega guide DIN		=QgCv	27	1		
-CC1	022.0296	Terminale a occhio (Blu)	Wire Terminal Connection Blue	Ø5 da 2,5mmq	=QgCv	27	1		

				Dis. N. S20A_48060CSA/1022	Impianto/Plant	Ordine/Requisition		Foglio/Page
				CAD SPAC	S20 A_480/60Hz	S 20A		37
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	File S20A\1.dwg	MEP50 V1	Commissa/Order		Segue/Follow
R.2.0	Changed Console/keyboard on Control Panel	31/08/2020	Solfanelli	Data 10/03/2022	Denominazione/Title	p.n.. 732.9139.1		38
R.0.0	First draft	20/10/2017			RIASSUNTIVO CAVI	Esecutore/Executor	Ultimo/Last	
REV.	MODIFICA	DATA	FIRME		Cable Summary	Mep SpA	217	

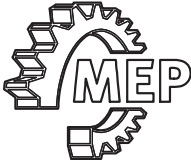
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Nome/Item	Tipo/Type	Descrizione/Description	Descrizione EN (Db)	Codice Interno	Quadro/Board	Fg/Sh	Q.ta/Q.ty		
-CN1	022.0903	Canalina portacavi in plastica	Cable holding plastic channel	40x60	=QgCv	27	1		
-CU1	022.0279 022.0760.1 031.2084 022.2834 022.4091	Kit morsetti volanti Mep50C Display MEP50 TS_REV1 Consolle di programmazione MEP 50 V.1.0 TOUCH SCREEN 7 INCH X H320A H230A H14A Controllore Mep50C_V1.0_senza display Cavo 60cm con connettore USB per pannello di comando	Kit mobile terminals Mep50C controller Display MEP50 TS_REV1 Programming consolle MEP 50 V.1.0 TOUCH SCREEN 7 INCH X H320A H230A H14A Controller Mep50C_V1.0_without display Cable 60 cm for command panel with USB connector	ISAC RAKIT7WIDE. TFT 7" Word Wide Touch Screen +Cavo dati M222-USB-SA ;1074.12 Eaton	=QgCv	14	1 1 1 1 1		
-F1 -F2	022.2240 054.4662	Portafusibile 2 x (10,3x38) - 690V 32A Fusibile Ritardato 10.3x38 - 4A UL/CSA	Fuse holding terminal 2 x (10,3x38) 690V 32A Fuse Time delay 10.3x38 - 4A UL/CSA	2032038 BCH 32A ItalfWeber 4A 600V ATDR4	=QgCv	8	1 2		
-F3 -F4	022.2240 054.4538	Portafusibile 2 x (10,3x38) - 690V 32A Fusibile Ritardato 10.3x38 - 5A UL/CSA	Fuse holding terminal 2 x (10,3x38) 690V 32A Fuse Time delay 10.3x38 - 5A UL/CSA	2032038 BCH 32A ItalfWeber 5A 600V ATDR5	=QgCv	8	1 2		
-F5 -F6 -F7	022.2239 054.4538	Portafusibile 3 x (10,3x38) - 690V 32A Fusibile Ritardato 10.3x38 - 5A UL/CSA	Fuse holding terminal 3 x (10,3x38) 690V 32A Fuse Time delay 10.3x38 - 5A UL/CSA	2033038 BCH 32A ItalfWeber 5A 600V ATDR5	=QgCv	6	1 3		
-F8 -F9 -F10	022.2239 054.4677	Portafusibile 3 x (10,3x38) - 690V 32A Fusibile Ritardato 10.3x38 - 20A UL/CSA	Fuse holding terminal 3 x (10,3x38) 690V 32A Fuse Time delay 10.3x38 - 20A UL/CSA	2033038 BCH 32A ItalfWeber 20A 600V ATDR20	=QgCv	6	1 3		
-F11	022.2240 054.4544	Portafusibile 2 x (10,3x38) - 690V 32A Fusibile Ritardato 10.3x38 - 8A UL/CSA	Fuse holding terminal 2 x (10,3x38) 690V 32A Fuse Time delay 10.3x38 - 8A UL/CSA	2032038 BCH 32A ItalfWeber 8A 600V ATDR8	=QgCv	8	1 1		
-F12	022.2240 054.4544	Portafusibile 2 x (10,3x38) - 690V 32A Fusibile Ritardato 10.3x38 - 8A UL/CSA	Fuse holding terminal 2 x (10,3x38) 690V 32A Fuse Time delay 10.3x38 - 8A UL/CSA	2032038 BCH 32A ItalfWeber 8A 600V ATDR8	=QgCv	8	1 1		
-F14	022.2253 054.4538	Portafusibile 1 x (10,3x38) - 690V 32A Fusibile Ritardato 10.3x38 - 5A UL/CSA	Fuse holding terminal 1 x (10,3x38) 690V 32A Fuse Time delay 10.3x38 - 5A UL/CSA	2031038 BCH 32A ItalfWeber 5A 600V ATDR5	=QgCv	8	1 1		
-F15	022.2253 054.4585	Portafusibile 1 x (10,3x38) - 690V 32A Fusibile Ritardato 10.3x38 - 6A UL/CSA	Fuse holding terminal 1 x (10,3x38) 690V 32A Fuse Time delay 10.3x38 - 6A UL/CSA	2031038 BCH 32A ItalfWeber 6A 600V ATDR6	=QgCv	8	1 1		
-F16	022.2253 054.4659	Portafusibile 1 x (10,3x38) - 690V 32A Fusibile Ritardato 10.3x38 - 0.5A UL/CSA	Fuse holding terminal 1 x (10,3x38) 690V 32A Fuse Time delay 10.3x38 - 0.5A UL/CSA	2031038 BCH 32A ItalfWeber 0.5A 600V ATDR1/2	=QgCv	8	1 1		
-F17	022.2253 054.4659	Portafusibile 1 x (10,3x38) - 690V 32A Fusibile Ritardato 10.3x38 - 0.5A UL/CSA	Fuse holding terminal 1 x (10,3x38) 690V 32A Fuse Time delay 10.3x38 - 0.5A UL/CSA	2031038 BCH 32A ItalfWeber 0.5A 600V ATDR1/2	=QgCv	18	1 1		
-F18	022.2253 054.4659	Portafusibile 1 x (10,3x38) - 690V 32A Fusibile Ritardato 10.3x38 - 0.5A UL/CSA	Fuse holding terminal 1 x (10,3x38) 690V 32A Fuse Time delay 10.3x38 - 0.5A UL/CSA	2031038 BCH 32A ItalfWeber 0.5A 600V ATDR1/2	=QgCv	19	1 1		
-FAL		Fus. tripolare sezionabile non sotto tensione			=QgCv	5	1		
-FL1	022.0133	Filo unipolare AWG20 CSA (0.5mmq)	Single wire AWG20 CSA (0.5mmq)		=QgCv	27	1		
-FL2	022.0134	Filo unipolare AWG16 CSA (1.5mmq)	Single wire AWG16 CSA (1.5mmq)		=QgCv	27	1		
-FS1	019.5353	Fascetta in plastica 140x3,5	Plastic clamp 140x3,5	32031 Legrand	=QgCv	27	1		
-G1	022.0908	Alimentatore Switching Vi 230-400-500VAC Vu 24Vdc 14A	Switching power supply Vi 240-400-500VAC Vu 24Vdc 14A	FLEX28024B AdelSystem	=QgCv	8	1		
-K0	022.0556	Bobina di minima 480/60	Releaser 480/60	U-PKZ0 V.480.60 cod. 073147 - Moeller	=QgCv	5	1		
-K1S	022.3012 022.0938	Contattore 3KW NO (24 V Dc) Contatto ausiliario 2 NC per contattore DILM9-10	Contacto 3KW NO (24 V Dc) Auxiliary contact for DILM9-10	DILM7-10 cod.276565 Moeller DILA-XHI02 cod.276420 Moeller	=QgCv	11	1 1		
-K2S	022.0938 022.3014	Contatto ausiliario 2 NC per contattore DILM9-10 Contattore 11KW (24 V Dc)	Auxiliary contact for DILM9-10 Contacto 3KW (24 V Dc)	DILA-XHI02 cod.276420 Moeller DILM25-10 (RDC24) cod.277146 Moeller	=QgCv	11	1 1		
-K4	022.3012	Contattore 3KW NO (24 V Dc)	Contacto 3KW NO (24 V Dc)	DILM7-10 cod.276565 Moeller	=QgCv	18	1		
-K65	022.3012	Contattore 3KW NO (24 V Dc)	Contacto 3KW NO (24 V Dc)	DILM7-10 cod.276565 Moeller	=QgCv	18	1		
-M6	019.5220 019.5117 034.0431 028.0174 034.0414	Ventola raffreddamento 120x120 24Vdc Griglia per ventola 120x120 Base per ventola 120x120 230V Filtro per ventola 120x120 Coperchio alettatore per ventola 120x120	Fan cooling 120x120 24Vdc Cover for fan cooler 120x120 Base for fan cooling 120x120 Fan filter 120x120 Fan filter 120x120	V108MBW24DC AlfaPlastic ALFA GM120 A12-7032 M12R M12C-7032	=QgCv	10	1 1 1 1 1		

				Dis. N. S20A_48060CSA/1022	Impianto/Plant	Ordine/Requisition		Foglio/Page
				CAD SPAC	S20 A_480/60Hz MEP50 V1	S 20A		38
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	File	Denominazione/Title	Commissa/Order		Segue/Follow
R.2.0	Changed Consolle/keyboard on Control Panel	31/08/2020	Solfanelli	S20A\1.dwg	RIASSUNTIVO CAVI	p.n.. 732.9139.1		39
R.0.0.	First draft	20/10/2017		Data	Cable Summary	Esecutore/Executor	Ultimo/Last	
REV.	MODIFICA	DATA	FIRME	10/03/2022		Mep SpA	217	

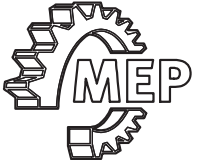
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Nome/Item	Tipo/Type	Descrizione/Description	Descrizione EN (Db)	Codice Interno	Quadro/Board	Fg/Sh	Q.ta/Q.ty		
-M7	019.5221 019.5123 016.0624	Ventola raffreddamento 80x80 - 24 Vdc Griglia per ventola 80x80 Staffa per ventola azionamento P/P	Fan cooling 80x80 - 24 Vdc Cover for fan cooler 80x80 Support for driver fan cooler	V108 DSW24V - ALFAELECTRIC ALFA GM 80	=QgCv	10	1 1 1		
-NM1	022.0290	Etichetta segnafile	Cable maker and wire		=QgCv	27	1		
-NM2	022.0290	Etichetta segnafile	Cable maker and wire		=QgCv	27	1		
-PT1	022.0311	Terminale a puntale da (Bianco)	Wire Terminal Connection White	0,5mmq DZ5CE005	=QgCv	27	1		
-PT2	022.0312	Terminale a puntale da (Nero)	Wire Terminal Connection Black	1,5mmq DZ5CE015	=QgCv	27	1		
-Q-K4	022.3829	Rele termico 0.16-0.24A	Termal overload 0.16-0.24A	ZB12-0.24A cod. 278432 Moeller	=QgCv	7	1		
-Q-K65	022.3812	Rele termico 2,4-4A	Termal overload 2,4-4A	ZB12-4A cod. 278438Moeller	=QgCv	6	1		
-Q0	022.1288 022.0124 022.0125	Magnetotermico 10-16A Custodia isolante con manopola rossa Blocco porta luchettabile	Magneto-termal overload 10-16A Housing with red handle Lockable block	PKZM0-16 cod. 46938 Moeller E-PKZO-GR - Moeller SVB-PKZO-E cod.35127 - Moeller	=QgCv	5	1 1 1		
-QD1	016.0778	Quadro comandi S20A- S23A N.T. completo di quadro elettrico.	Electrical panel S20A- S23A N.T.		=QgCv	27	1		
-R-M25	022.0045 025.0235 010.3748	Potenzimetro 10K monogiro Anello di tenuta Manopola Alluminio Logo HydMech con riferimento	Potentiometer 10K single turn Potentiometer 10K single turn Knob with HydMech Icon and reference	91A1AB28B15L - Mexico NI-18-25-4.5 Ø38x23mm - Albero Ø6	=QgCv	21	1 1 1		
-RS1	022.3892	Modulo di sicurezza CS AR22V024 3NO+1NC CAT.3	Safety Module CS AR22V024 3NO+1NC CAT.3	CS AR-22V024 PIZZATO	=QgCv	11	1		
-RS1E	022.3893	Modulo di espansione CS ME02VU24 4NO+2NC	Safety Module CS ME02VU24 4NO+2NC	CS ME-02VU24 PIZZATO	=QgCv	11A	1		
-R0	022.2152	Tensionatore elettronico 3T	Electronic tensioner 3T	TR-S-A/3T 1,5V- 900Kg Deltateck	=QgCv	21	1		
-S3	022.0937 022.1408 022.0937 022.0937	Contatto pulsantiera NA Pulsante blu Contatto pulsantiera NA Contatto pulsantiera NA	Normally open contact Blue push button Normally open contact Normally open contact	M22-K10 cod. 216376 Moeller M22-D-B cod. 216600 M22-K10 cod. 216376 Moeller M22-K10 cod. 216376 Moeller	=QgCv	11	4 1 1 1		
-S4	022.1245 022.0936 022.0911	Fungo emergenza Contatto pulsantiera NC Portacontatti per pulsantiera	Emergency push button Normally close contact Carrier for pushbutton	M22-PVT cod.263467 M22-K01 cod. 216678 - Moeller M22-A cod. 216374	=QgCv	11	1 3 1		
-S18	022.0937 022.1405 022.0911	Contatto pulsantiera NA Pulsante nero Portacontatti per pulsantiera	Normally open contact Black push button Carrier for pushbutton	M22-K10 cod. 216376 Moeller M22-D-S cod. 216590 M22-A cod. 216374	=QgCv	16	1 1 1		
-S48	022.0037	Finecorsa di sicurezza con chiave 1NO + 1NC	Safety Switch with key 1NO + 1NC	LS S11 ZB - MOELLER	=QgCv	5	1		
-S54	022.3927 022.3928	JOYSTICK E2AC-DXBX2600 4 POS. CON BLOCCO BLOCCETTO N.A. PER JOYSTICK CP10G2V1	JOYSTICK E2AC-DXBX2600 4 POS. N.O. BLOCK FOR JOYSTICK CP10G2V1	E2AC-DXBX2600- PIZZATO CP10G2V1 - PIZZATO	=QgCv	16	1 4		
-T2	022.1686	Trasformatore 500VA UL/CSA	Transformer 500VA UL/CSA	500VA P.0-240-480 S.0-55/60 (450VA)/0-24 (50VA)	=QgCv	8	1		
-TF2	025.0604	Guarnizione aerstop	Control panel gasket		=QgCv	27	1		
-U10	022.1330 016.0624	Azionamento per motori passo-passo (60VAC +20% - 10A) + modbus Staffa per ventola azionamento P/P	Driver for step motor (30-100V) + modbus Support for driver fan cooler	APSL3 E OP/S130	=QgCv	9	1 1		
-X008	022.0429	Connettore EV idra. in DC con varistore (V1401)	Connector for solenoid valve DC with varistor	2 poli + PE - V1401 SHIELD	=QgCv	19	1		
-X009	022.0429	Connettore EV idra. in DC con varistore (V1401)	Connector for solenoid valve DC with varistor	2 poli + PE - V1401 SHIELD	=QgCv	19	1		
-X010	022.0429	Connettore EV idra. in DC con varistore (V1401)	Connector for solenoid valve DC with varistor	2 poli + PE - V1401 SHIELD	=QgCv	19	1		
-X011	022.0429	Connettore EV idra. in DC con varistore (V1401)	Connector for solenoid valve DC with varistor	2 poli + PE - V1401 SHIELD	=QgCv	19	1		
-X012	022.0429	Connettore EV idra. in DC con varistore (V1401)	Connector for solenoid valve DC with varistor	2 poli + PE - V1401 SHIELD	=QgCv	19	1		
-X014	022.0429	Connettore EV idra. in DC con varistore (V1401)	Connector for solenoid valve DC with varistor	2 poli + PE - V1401 SHIELD	=QgCv	19	1		
-X40	022.0429	Connettore EV idra. in DC con varistore (V1401)	Connector for solenoid valve DC with varistor	2 poli + PE - V1401 SHIELD	=QgCv	18	1		
-X100					=QgCv	6	1		
-XQG1	022.2258	Morsetto da 2.5 mm singolo per 4 fili a molla	Quadruple pole spring terminal 2,5mmq	56.703.5155.0	=QgCv		2		

				Dis. N. S20A_48060CSA/1022	Impianto/Plant	Ordine/Requisition		Foglio/Page
				CAD SPAC	S20 A_480/60Hz MEP50 V1	S 20A		39
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	File	Denominazione/Title	Commissa/Order		Segue/Follow
R.2.0	Changed Consolle/keyboard on Control Panel	31/08/2020	Solfanelli	S20A\1.dwg	DISTINTA MATERIALI	p.n.. 732.9139.1		40
R.0.0	First draft	20/10/2017		Data	<i>Material List</i>	Esecutore/Executor	Ultimo/Last	
REV.	MODIFICA	DATA	FIRME	10/03/2022		Mep SpA	217	

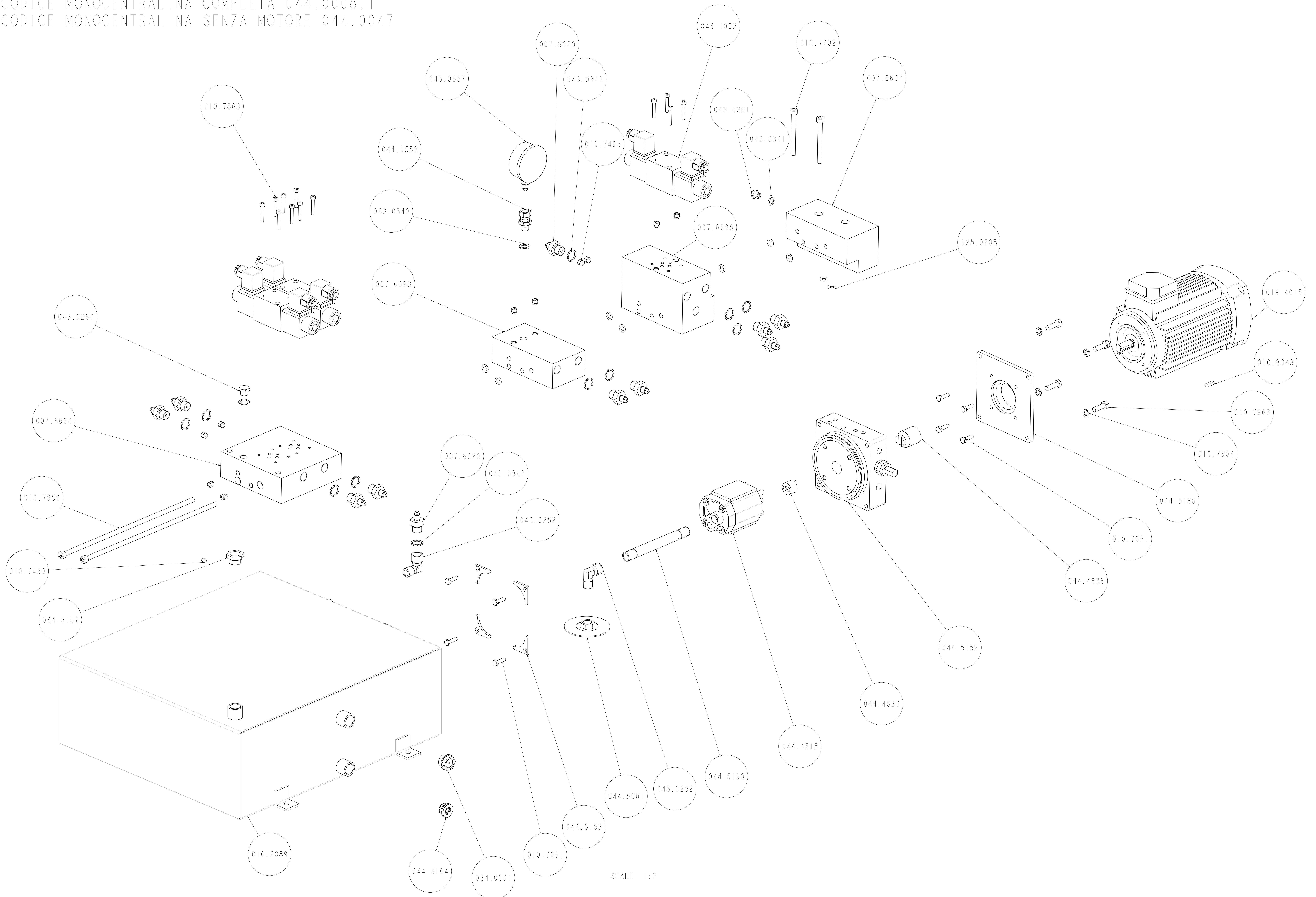
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Nome/Item	Tipo/Type	Descrizione/Description	Descrizione EN (Db)	Codice Interno	Quadro/Board	Fg/Sh	Q.ta/Q.ty		
-XQG2	022.2256 022.2258	Morsetto da 2.5 mm singolo per 2 fili a molla Morsetto da 2.5 mm singolo per 4 fili a molla	Single pole spring terminal 2,5mmq Quadruple pole spring terminal 2,5mmq	56.703.0055.0 56.703.5155.0	=QgCv		8 5		
-XQG3	022.2245	Morsetto 2,5(4)mmq per 4 fili a molla - PHOENIX	Terminal 2,5(4)mmq for 4 wires - PHOENIX	ST2,5- QUATTRO_3031306	=QgCv		1		
-XQG4	022.2256	Morsetto da 2.5 mm singolo per 2 fili a molla	Single pole spring terminal 2,5mmq	56.703.0055.0	=QgCv		36		
-XQGPE	022.2256 022.2321	Morsetto da 2.5 mm singolo per 2 fili a molla Barra da 15x15mm con 10 fori 6mm	Single pole spring terminal 2,5mmq	56.703.0055.0	=QgCv		2 1		
-XTL	022.0376	Connettore F303N5000 per prossimità con 5Mt di cavo.	Connettor F303N5000 for connector with 5Mt cable.	022.0376	=QgCv		1		
-Z1	022.2903	Toroide ferrite N30 r40	Ferrites Toroids N30 r40	212-0976 - RS	=QgCv	23	1		
-XS7	022.0369	Connettore 3 poli per tensionatore elettronico	Connector 3-poles for strain gauge	022.0369	=QgMep		1		

				Dis. N. S20A_48060CSA/1022	Impianto/Plant		Ordine/Requisition S 20A		Foglio/Page 40
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD SPAC		S20 A_480/60Hz MEP50 V1	Commessa/Order p.n..732.9139.1		Segue/Follow 41
R.2.0	Changed Consolle/keyboard on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg	Denominazione/Title	DISTINTA MATERIALI	Esecutore/Executor Mep SpA		Ultimo/Last 217
R0.0.	First draft	20/10/2017		Data 10/03/2022		Material List			
REV.	MODIFICA	DATA	FIRME						

0	1	2	3	4	5	6	7	8	9	
Nome/Item	Tipo/Type	Descrizione/Description	Descrizione EN	Descrizione EN	Descrizione EN	Descrizione EN	Codice Interno	Quadro/Board	Fg/Sh	Q.ta/Q.ty
-W55	022.1905	Cavo schermato 4x2xAwg24St(0.20mmq) UL 2464 CSA								
-W21 -W21/1	022.0397	Cavo 4xAwg24 per prossimity con connettore M12 dritto L=5Mt	Straight connector M12 with 5MTcable 4x0.34mmq				022.0397			5
-W59	022.0424	Cavo pressofuso con connettore M12 90° lungo 5Mt	SAC-4P- 5,0-PUR/M12FR, M12 90° connector: lenght 5Mt				022.0424			
-W120/1	022.1905	Cavo schermato 4x2StAwg24(0.20mmq) UL 2587 CSA	Cable shielded 4x2 Awg24 CSA				022.1905			
-W117 -W118	022.1906	Cavo schermato 6x2StAwg24(0.20mmq) UL 2587 CSA	Cable shielded 6x2 Awg24 CSA				022.1906			
-W65	022.1980	Cavo 2x Awg18 oil resistant UL 2587 CSA	Cable 2X AWG18 OIL RESISTANT UL 2587 CSA				022.1980			
-W11	022.1984	Cavo oil resistant 4G x Awg18 CSA	Cable 4G X AWG18 oil resistant UL 2587 CSA				022.1984			
-W1/1	022.0188	Cavo 4GAwg16 UL 2587 CSA	Cable 4G Awg16 UL 2587 CSA Ø7.6				022.0188	=BmCv		3
-W29/2	022.1905	Cavo schermato 4x2xAwg24St(0.20mmq) UL 2464 CSA						=QgCv		
-W120	022.1906	Cavo schermato 6x2StAwg24(0.20mmq) UL 2587 CSA	Cable shielded 6x2 Awg24 CSA				022.1906	=QgCv		
-W90 -W91 -W92 -W123 -W124	022.1980	Cavo 2x Awg18 oil resistant UL 2587 CSA	Cable 2X AWG18 OIL RESISTANT UL 2587 CSA				022.1980	=QgCv =QgCv =QgCv =QgCv =QgCv		3 3 3 3 3
-W4	022.1984	Cavo oil resistant 4G x Awg18 CSA	Cable 4G X AWG18 oil resistant UL 2587 CSA				022.1984	=QgCv		
	AWG 20 RD	American Wire Gauge size 20 - Red						=QgCv		
	H05V-K 1x0.5 BK	Cavo unipolare H05V-K Sez. 0.5 mmq - Nero						=QgCv		
	H05V-K 1x0.5 RD	Cavo unipolare H05V-K Sez. 0.5 mmq - Rosso						=QgCv		
	H05V-K 1x1 BU	Cavo unipolare H05V-K Sez. 1 mmq - Blu						=QgCv		
	H07V-K 1x16 BK	Cavo unipolare H07V-K Sez. 16 mmq - Nero						=QgCv		
	N07V-K							=QgCv		
	N07V-K 1x2.5/RD							=QgCv		
-W2	022.1977	Cavo 4G Awg10 St CSA	Cable 4G X AWG10 SCHERMATO					=BmCv		5.5
-W96A	022.0355	Cavo 3xAwg24 per proxy con connettore M8 dritto. L=5Mt	Cable with straight connector M8. L=5Mt					=QgCv		5
-W27 -W121	022.0398	Cavo 4xAwg24 per prossimity con connettore M12 dritto L.=10Mt.	Straight connector M12 10MT cable 4x0.5mmq				022.0398	=QgCv =QgCv		7 3.5
-W29	022.1979	Cavo 5G Awg16 UL 2587 CSA	Cable 5G AWG16 UL 2587 CSA				022.1979	=QgCv		4
-W01 -W93 -W95 -W96 -WTL	022.1980	Cavo 2x Awg18 oil resistant UL 2587 CSA	Cable 2X AWG18 OIL RESISTANT UL 2587 CSA				022.1980	=QgCv =QgCv =QgCv =QgCv =QgCv		5 3 5 8 3
-W20 -W28	022.1981	Cavo schermato 3x Awg18 St oil resistant UL 2587 CSA	Cable 4G AWG18 OIL RESISTANT CSA				022.1981	=QgCv =QgCv		6 6
-W4/1	022.1984	Cavo oil resistant 4G x Awg18 CSA	Cable 4G X AWG18 oil resistant UL 2587 CSA				022.1984	=QgCv		3

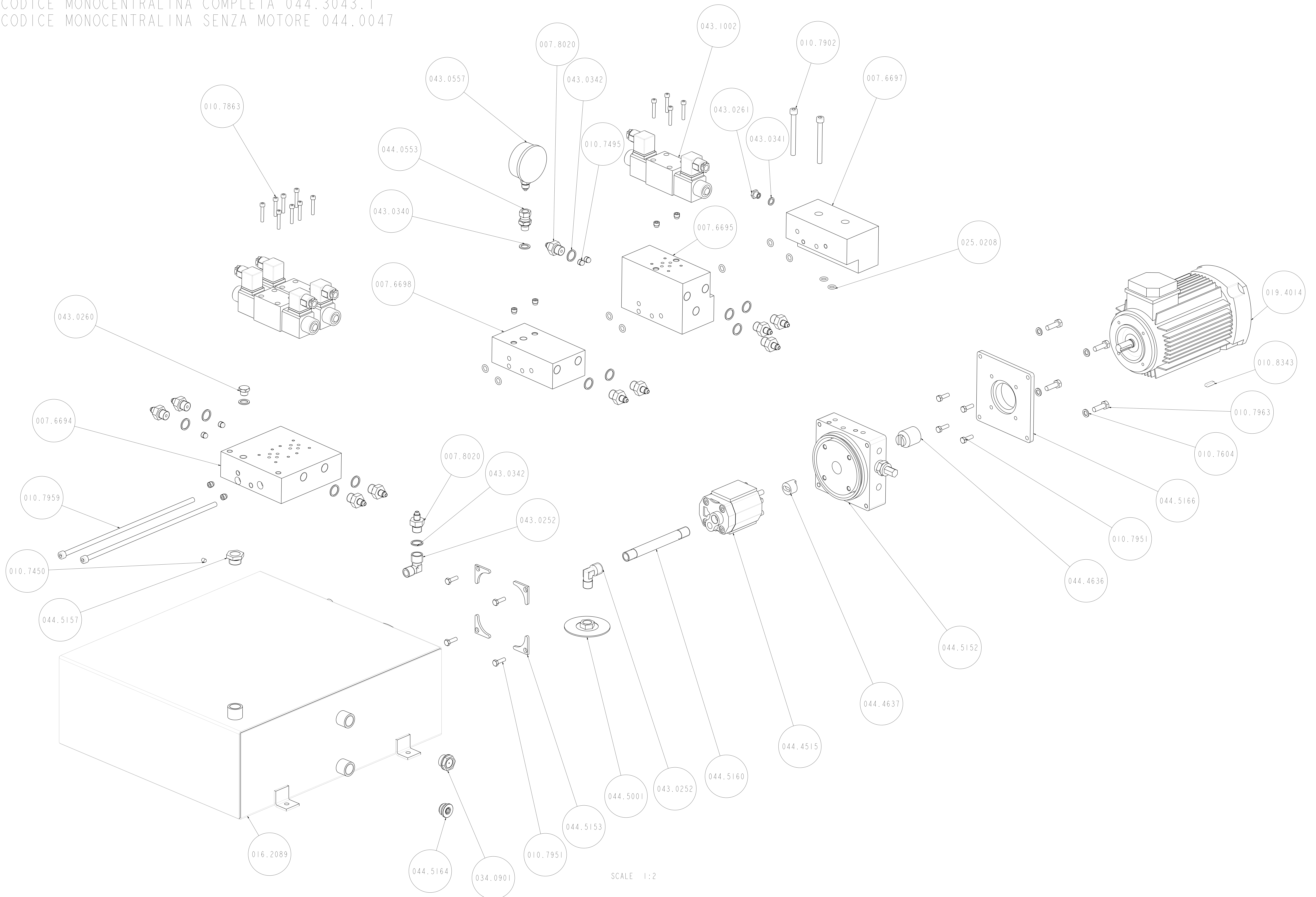
				Dis. N. S20A_48060CSA/1022	Impianto/Plant	Ordine/Requisition		Foglio/Page
R.3.0	Change safety relay module (RS1+RS1E) -sheet11,11A	10/03/2022	Solfanelli	CAD SPAC	S20 A_480/60Hz MEP50 V1	S 20A		41
R.2.0	Changed Consolle/keyboard on Control Panel	31/08/2020	Solfanelli	File S20A\1.dwg	Denominazione/Title	Commissa/Order		Segue/Follow
R0.0.	First draft	20/10/2017		Data 10/03/2022	DISTINTA CAVI	p.n..732.9139.1		42
REV.	MODIFICA	DATA	FIRME		<i>Cable list</i>	Esecutore/Executer Mep SpA	Ultimo/Last 217	

OIL UNIT S20A NT
CODICE MONOCENTRALINA COMPLETA 044.0008.1
CODICE MONOCENTRALINA SENZA MOTORE 044.0047



SCALE 1:2

OIL UNIT S20A NT
CODICE MONOCENTRALINA COMPLETA 044.3043.1
CODICE MONOCENTRALINA SENZA MOTORE 044.0047



SCALE 1:2

1. HYDRAULIC OIL- Machine hydraulic reservoir is filled with mineral oil Texaco Rando HD46. In case of changing the brand, hydraulic system should be drained and thoroughly flashed. Following is a list of recommended replacement oils:

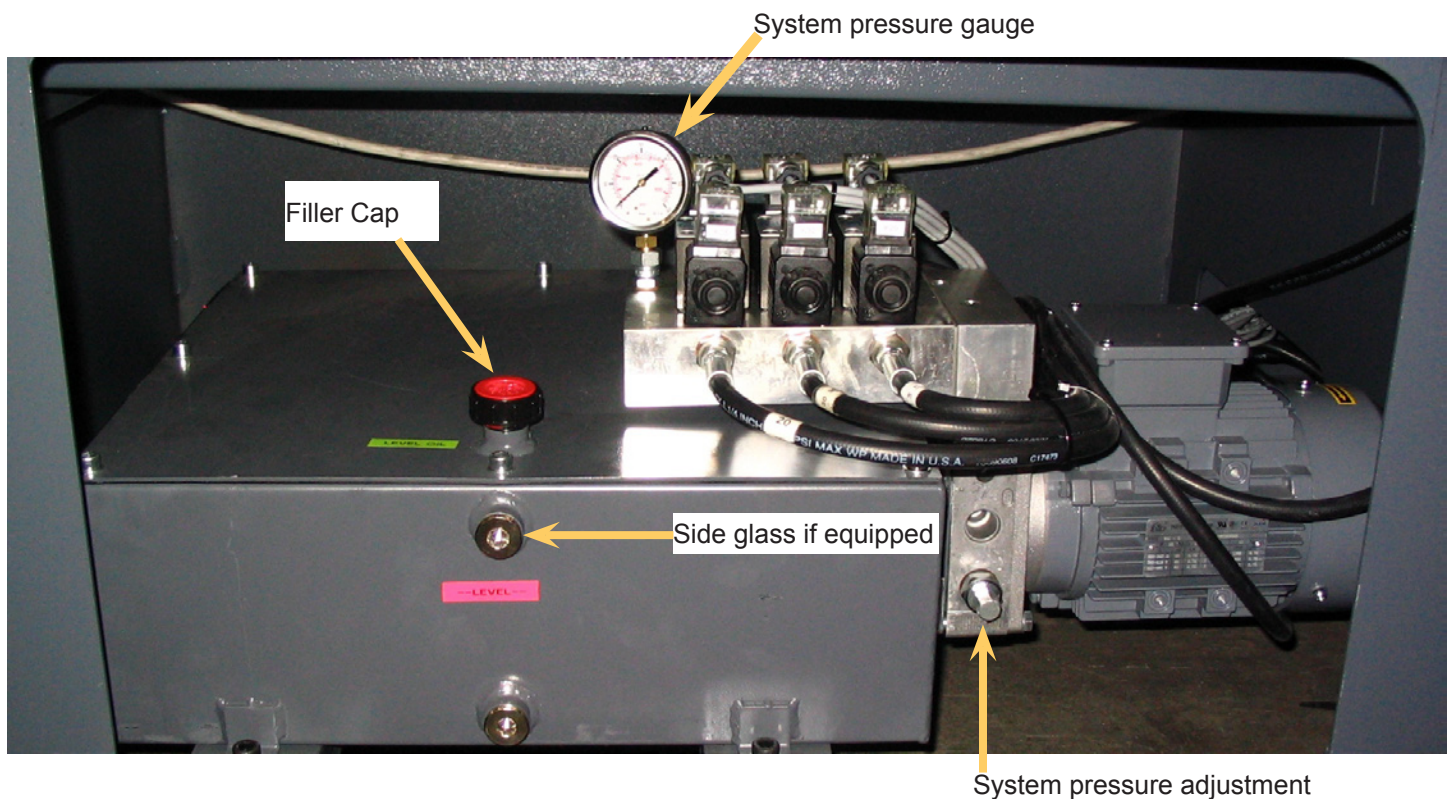
- Texaco Rando HD 46
- CHEVRON ECO Hydraulic oil AW ISO 46
- MOBIL DTE 25
- ESSO NUTO H46
- SHELL TELLUS OIL 46

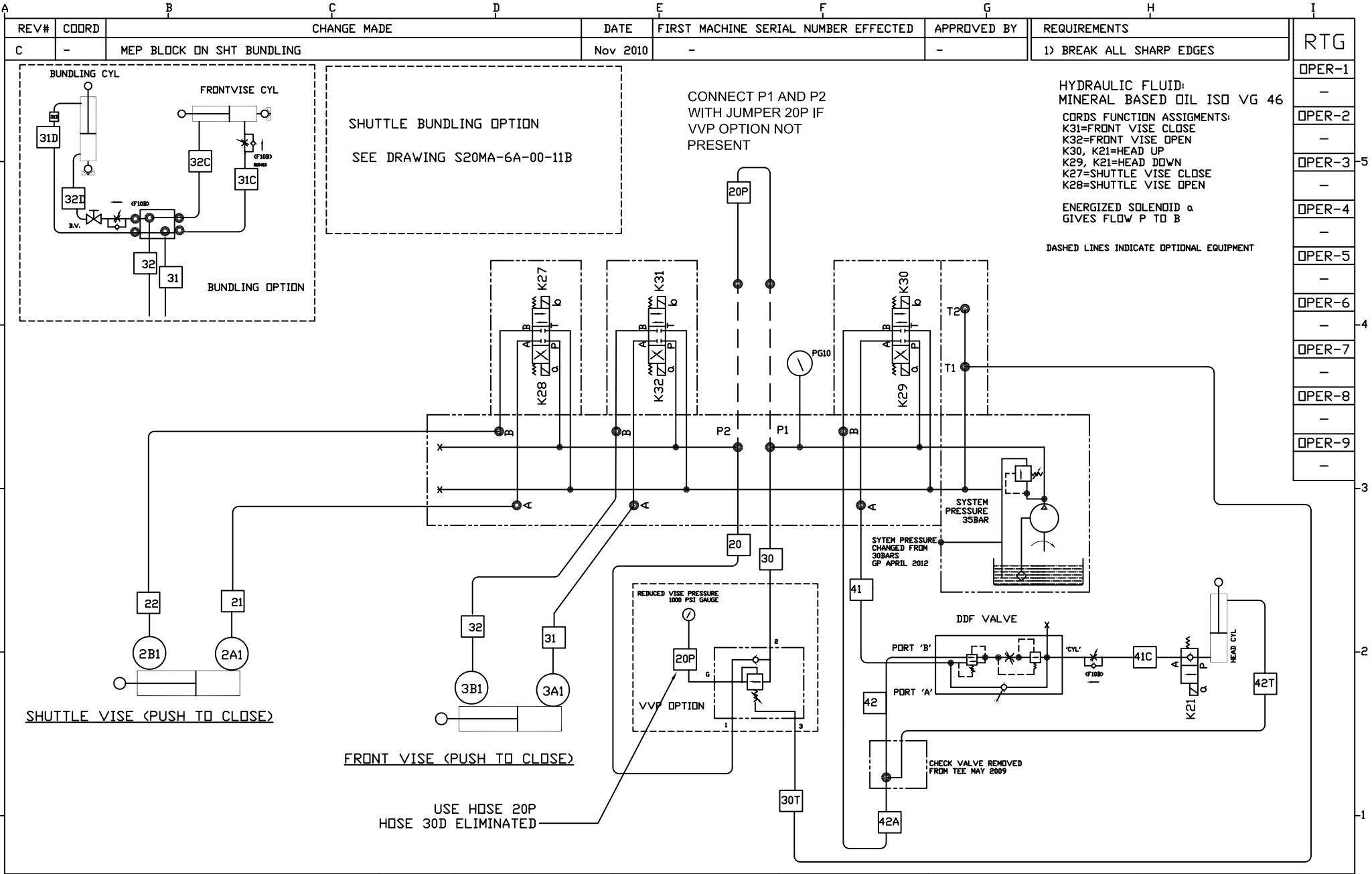
2. HYDRAULIC OIL LEVEL –

- Units equipped with side Glass: Oil level should be maintained in the middle of the side glass window.
- Units without side glass: Filler cap is equipped with dip stick for checking oil level. Oil level should be maintained so the oil leaves a wet trace approximately half way on the dip stick.

3. HYDAULIC OIL CHANGE - It is recommended to change oil after every 2000 hours of operation but at least once a year.

4. HYDRAULIC PRESSURE - Hydraulic pressure is factory set to 30 bar (435PSI) and should not require any further attention. System pressure adjustment is located directly on the hydraulic pump.





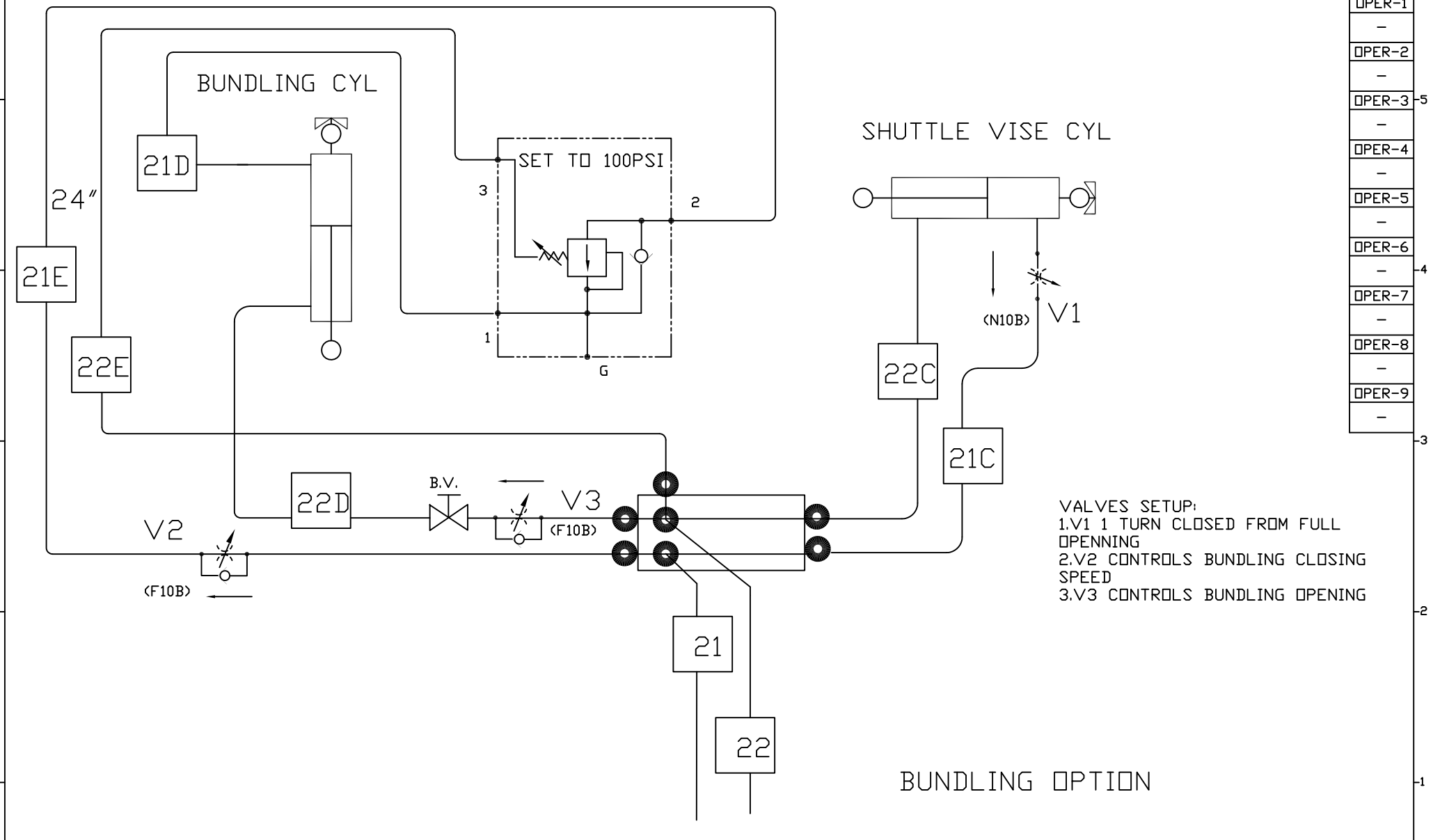
REV#	COORD	CHANGE MADE	DATE	FIRST MACHINE SERIAL NUMBER EFFECTED	APPROVED BY	REQUIREMENTS
C	-	MEP BLOCK ON SHT BUNDLING	Nov 2010	-	-	1) BREAK ALL SHARP EDGES

RTG
OPER-1
-
OPER-2
-
OPER-3
-
OPER-4
-
OPER-5
-
OPER-6
-
OPER-7
-
OPER-8
-
OPER-9
-

TOLERANCES UNLESS OTHERWISE SPECIFIED:			QTY/MACH.	MTL.WGT.	PART WGT.	DRAWN BY	DATE	CHKD BY	DATE	HYD-MECH ENG.	PART NUMBER
	MACHINING AND CNC PUNCHING:	FORMING, FLAME CUTTING, SHEARING AND SAWING:	-	-	-	gp	SEPT 2008	-	-	WOODSTOCK, ONT.	S20MA-6A-00-1C
ANGULAR:	.X +/- 0.5 DEG	.X +/- 0.5 DEG									SHEET 1 OF 1
DEC:	.X +/- .015 IN	.X +/- .063 IN									
DEC:	.XX +/- .010 IN	.XX +/- .032 IN									
DEC:	.XXX +/- .005 IN	.XXX +/- .016 IN									
			MATERIAL CODE		OVERALL MATERIAL SIZE			CUT LENGTH		PART DESCRIPTION	
										S20MA HYDRAULIC SCHEMATIC	

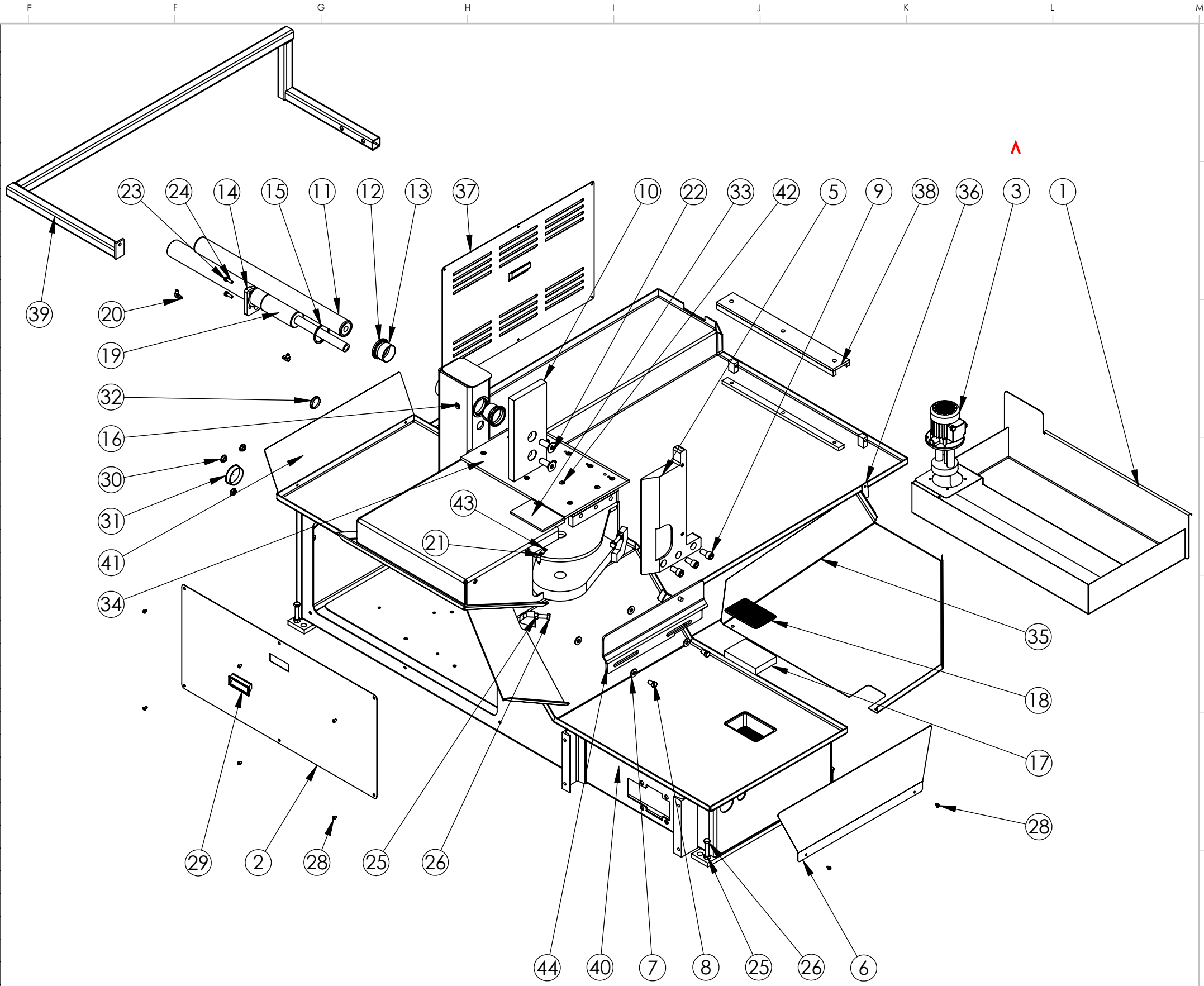
REV#	COORD	CHANGE MADE	DATE	FIRST MACHINE SERIAL NUMBER EFFECTED	APPROVED BY	REQUIREMENTS	RTG
B	-	MEP JUNCTION BLOCK	2011	-	-	1) BREAK ALL SHARP EDGES	

OPER-1	-
OPER-2	-
OPER-3	5
OPER-4	-
OPER-5	-
OPER-6	-
OPER-7	4
OPER-8	-
OPER-9	-



TOLERANCES UNLESS OTHERWISE SPECIFIED:			QTY/MACH.	MTL.WGT.	PART WGT.	DRAWN BY	DATE	CHKD BY	DATE	HYD-MECH ENG, WOODSTOCK, ONT.	PART NUMBER S20MA-6A-00-11B SHEET 1 OF 1
	MACHINING AND CNC PUNCHING:	FORMING, FLAME CUTTING, SHEARING AND SAWING:	-	-	-	9P	SEPT 2008	-	-		
ANGULAR:	.X +/- 0.5 DEG	.X +/- 0.5 DEG									
DEC:	.X +/- .015 IN	.X +/- .063 IN									
DEC:	.XX +/- .010 IN	.XX +/- .032 IN									
DEC:	.XXX +/- .005 IN	.XXX +/- .016 IN									

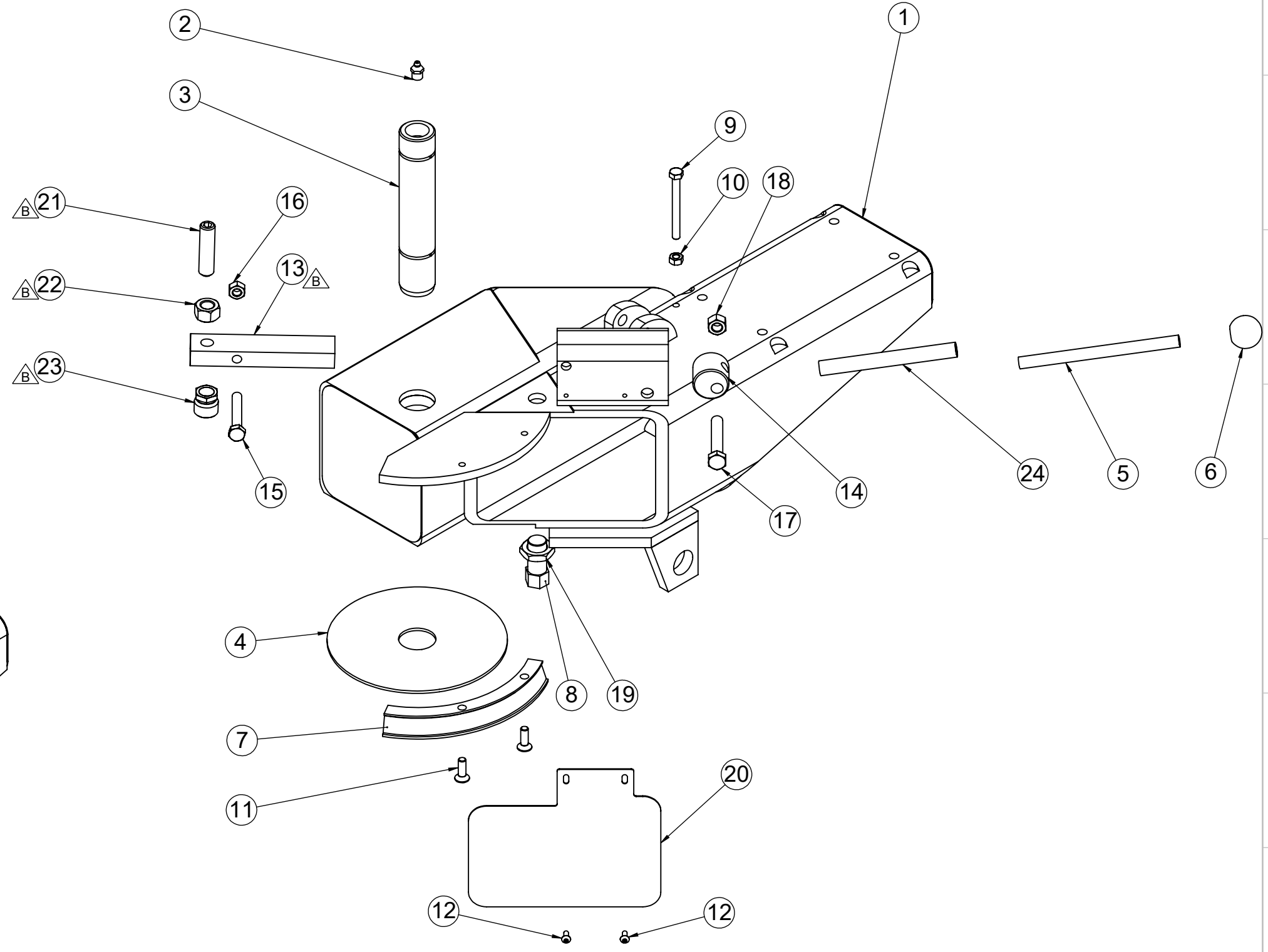
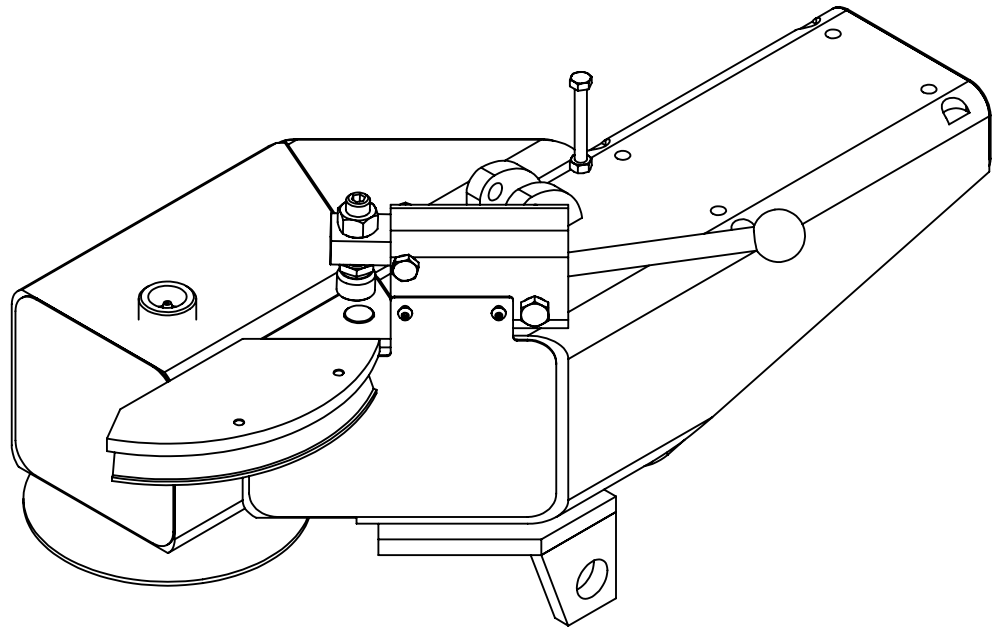
ITEM NO.	PART NUMBER	DESCRIPTION	B2 QTY
1	S20M-81-00B	WELDMENT, COOLANT TANK	1
2	S20M-1-02	FRONT BASE COVER	1
3	028.1051	COOLANT PUMP 208/240V	1
	028.1052	COOLANT PUMP 480V	
5	M-S20MA-14B-01A	DATUM JAW	1
6	S20M-1-15	COVER, COOLANT, DRIVE SIDE	1
7	395165	WASHER, FLAT, M12	4
8	390427	BOLT, HEX HEAD, CAP, M12-1.75 X 20	2
9	395393	BOLT, SOCKET HEAD, CAP, M16-2.0 X 30	3
10	S20MA-1C-01A	MOVABLE JAW	1
11	S22A-1-03B	SHAFT, JAW GUIDE	1
12	363320	WIPER 2 1/4 IN., URETHANE SEAL, BLACK WITH GROOVE	2
13	342165	STRIP WEAR RING 2 1/4 IN. SHAFT 7.260 X 1 X 0.125	2
14	S22A-1-02D	CYLINDER MOUNTING PLATE, MACHINED	1
15	393560	RING, RETAINING, EXTERNAL, 2.375	1
16	391175	FITTING, GREASE STRAIGHT, 0.125 NPT	1
17	340976	FILTER 30PPI CHARCOAL FOAM 3 7/8 IN. X 1.00 IN.	1
18	S22-1-11	SCREEN, COOLANT	1
19	044.1036	CYLINDER, VISE S20MA-C3-00	1
20	360530	FITTING HYDRAULIC STEEL ADAPTER ELBOW 90 MNPT-MJIC 2103-2-4	2
21	S22-2-04B	POINTER, ANGLE	1
22	390615	BOLT, SOCKET HEAD, FLAT, 0.75-10 X 2.0	2
23	394845	WASHER, LOCK, M8	4
24	395119	BOLT, HEX HEAD, CAP, M8-1.25 X 25	4
25	392910	NUT, HEX, M12-1.75	8
26	390428	BOLT, HEX HEAD, CAP, M12-1.75 X 80	8
27	342525	WASHER, FLAT, M6	2
28	395401	BOLT, BUTTON HEAD, CAP, M6-1.0 X 10	8
29	341283	HANDLE PULL FLUSH POCKET 1.00 IN. X 3.25 IN. BLACK P2-43	2
30	393496	Plug, Dome, .75 in. Plastic	3
31	393495	Plug, Dome, 2.5 in. Plastic	1
32	393489	Plug, Dome, 1.5 in. Plastic	1
33	S20M-1A-18	WEAR PLATE	1
34	M-S20MA-1A-02	TABLE WEAR PLATE	1
35	S20MA-1-03A	CHIP TROUGH	1
36	S20MA-1-09	Bracket, Chip Tray	1
37	S20MA-1-08	SIDE BASE COVER	1
38	s20ma-13-00a	CONVEYOR CILAMP WELDMENT	1
39	s20ma-15-00	SHUTTLE GUARD	1
40	S20MA-11D-00D	WELDMENT, MACHINE BASE	1
41	S20M-1-22	COVER, COOLANT, IDLER SIDE	1
42	395400	BOLT, SOCKET HEAD, FLAT, M8-1.25 X 25	13
43	395169	BOLT, BUTTON HEAD, CAP, M5-0.8 X 10	2
44	S20HM-16-00	WELDMENT, OUTFEED FENCE	1



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REVISIONS				STANDARD HYDMECH TOLERANCES UNLESS OTHERWISE SPECIFIED	HYDMECH GROUP LIMITED WOODSTOCK, ONTARIO, CANADA N4S 0A9						
REV	ECN NUMBER	DATE	BY		TITLE	MODEL	COMPONENT GROUP	DRWN BY:	CHKD BY:	SCALE	SHEET
△	ECN-01333	NOV 2017	MSILOS	DIMENSIONS ARE IN INCHES	BASE ASSEMBLY S20MA	S20MA	10 - Base	DATE:	DATE:	1:14	1 OF 1
					THIRD ANGLE PROJECTION						
					MATERIAL CODE:	MATL:		PART WEIGHT: 985.16 lbs		COATING: No Coating	
					DRAWING NUMBER: S20MA-1-00B						REV A

ITEM#	PART NUMBER	DESCRIPTION	QTY.
1	60005384	PIVOT LINK	1
2	391160	FITTING GREASE STRAIGHT 1/4 MNPT ST	1
3	S22-2-01	PIN, PIVOT	1
4	810131	PLATE, THRUST	1
5	S20-423B-01	HANDLE, BRAKE	1
6	341430	1.38 in. Black Ball	1
7	M-S22-2-02E	Ring, Scale Support, Machined	1
8	50003340	BRAKE SUPPORT BOLT	1
9	395404	BOLT, HEX HEAD, CAP, M8-1.25 X 80	1
10	392915	NUT, HEX, M8-1.25	1
11	395400	BOLT, SOCKET HEAD, FLAT, M8-1.25 X 25	2
12	395124	BOLT, BUTTON HEAD, CAP, M5-0.8 X 12	2
13	60006102	BRAKE ARM	1
14	60006134	ECCENTRIC BRAKE CAM	1
15	390430	BOLT, HEX HEAD, CAP, M10-1.5 X 65	1
16	395108	NUT, HEX, M10-1.5	1
17	390437	BOLT, HEX HEAD, CAP, M12-1.75 X 70	1
18	392910	NUT, HEX, M12-1.75	1
19	50003342	NUT, JAM, M20-1.5	1
20	60005408	TUBE END PLATE	1
21	394082	SCREW, SET, CUP POINT, 0.625-11 X 2.5	1
22	392870	NUT, HEX, 0.625-11	1
23	60006103	1" SWIVEL TIP, 5/8-11 THREAD	1
24	394625	TUBE, BLACK 1/2 IN. I.D.	1

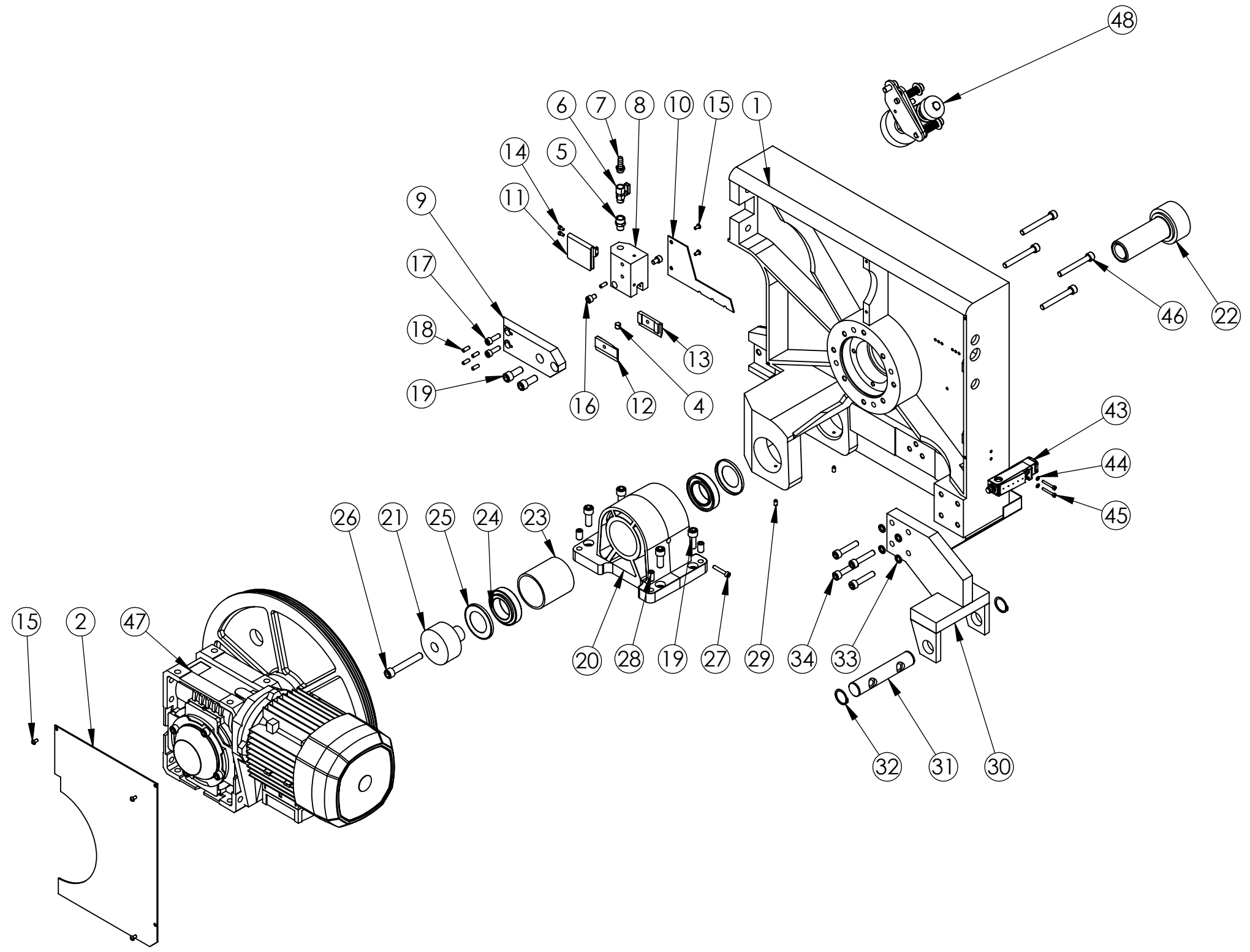


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B - ADDED/ REPLACED PIVOT BRAKE COMPONENTS

REVISIONS				STANDARD HYDMECH TOLERANCES UNLESS OTHERWISE SPECIFIED	HYDMECH GROUP LIMITED WOODSTOCK, ONTARIO, CANADA N4S 0A9						
REV	ECN NUMBER	DATE	BY		TITLE	MODEL	COMPONENT GROUP	DRWN BY	CHKD BY	SCALE	SHEET
-	ECN 01626	APRIL 2019	GP	DIMENSIONS ARE IN INCHES	S20M	210 - Pivot Link	GP	SJ	1:5	1 OF 1	
A	ECN 01645	MAY 2019	GP				Nov 05, 2019	Nov 11, 2019			
B	ECN-01728	10/18/2019	AK								
THIRD ANGLE PROJECTION					MATERIAL CODE:	MATL:	PART WEIGHT: 88.4 lbs	COATING: No Coating	DRAWING NUMBER: 60005404		
											REV B

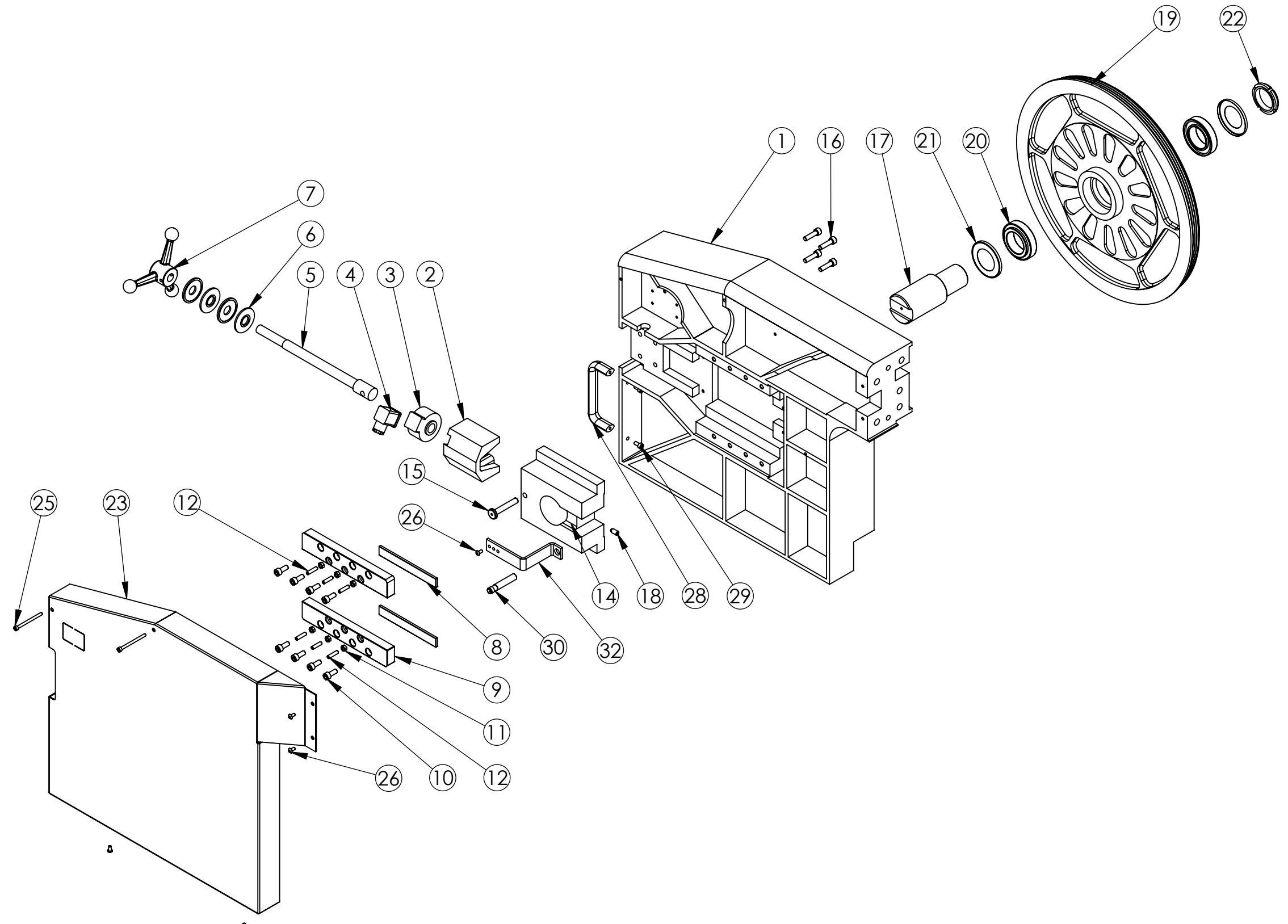
ITEM NO.	PART NUMBER	DESCRIPTION	S20A Drive Box/QTY.
1	001.5016	DRIVE BOX	1
2	016.0118	FRONT COVER, DRIVE BOX	1
3	395157	Bolt, Socket Head, Cap, M6 - 1.0 x 16	10
4	010.1721	BLADE PUSHER	1
5	043.0229	REDUCER, MF 1/4-CL2520	1
6	043.0652	TAP, 1/4 F.M.	1
7	028.0130	FITTING, 1/4-9 CL 2601	1
8	001.4023	GUIDE BLOCK, FIXED	1
9	007.6644	BRACKET, FIXED GUIDE BLOCK	1
10	016.0438A	BLADE GUARD, DRIVE SIDE	1
11	016.1175	GUARD, FIXED GUIDE BLOCK	1
12	010.1704	FRONT INSERT, FIXED BLOCK	1
13	010.1706	REAR INSERT, FIXED BLOCK	1
14	395111	Bolt, Socket Head, Cap, M4 - 0.7 x 8	2
15	395169	Bolt, Button Head Cap, M5 - 0.8 x 10mm	5
16	395114	Bolt, Socket Head, Cap, M8 - 1.25 x 12	2
17	390665	Bolt, Socket, Cap M8-1.25x25	2
18	395098	Screw, Set, Flat Point, M6 - 1.0 x 16	5
19	390892	Bolt, Socket Head, Cap, M12 - 1.25 x 30	6
20	001.5031	PIVOTING HEAD PIN SUPPORT	1
21	007.4829	PIN, HEAD PIVOT, MALE	1
22	007.4828	PIN, HEAD PIVOT, FEMALE	1
23	007.6611	SPACER, BEARING, HEAD PIVOT	1
24	025.0075	BEARING, 32009X	2
25	025.0275	RING, GUARD, NILOS 32009X	2
26	S20MA-5-10A	PIVOT BOLT	1
27	395149	Bolt, Socket Head, Cap, M6 - 1.0 x 35	1
28	395097	Screw, Set, Cup Point, M12 - 1.75 x 20	4
29	395130	Screw, Set, Dog Point, M6 - 1.0 x 12	2
30	S20M-31-00	WELDMENT, SPRING MOUNTING BRACKET	1
31	S20M-3-02	SPRING SHAFT	1
32	393540	Ring, Retaining, External, 1.125	2
33	342531	Washer, Lock, M10	4
34	395266	Bolt, Socket Head, Cap, M10 - 1.50 x 50	4
35	395103	Washer, Flat, M10	1
36	395095	Nut, Lock, M10 - 1.5	2
37	395172	Bolt, Socket Head, Cap, M10 - 1.5 x 20	1
38	395158	Bolt, Socket Head, Cap, M6 - 1.0 x 30	2
39	395105	Nut, Hex, M6 - 1.0	1
40	395128	Screw, Set, Cone Point, M6 - 1.0 x 35	1
41	395108	Nut, Hex, M10 - 1.5	2
42	395094	Bolt, Socket Head, Cap, M10 - 1.5 x 120	2
43	022.0544	SWITCH, SAFETY, KEY ACTUATED	1
44	395100	WASHER, FLAT, M04	2
45	395112	Bolt, Socket Head, Cap, M4 - 0.7 x 30	2
46	395092	Bolt, Socket Head, Cap, M10 - 1.5 x 80	4
47	-	S20MA DRIVE ASSEMBLY	1
48	S20M-48-00	Assembly, Blade Brush	1
49	016.0191A	DOOR COOLANT COVER DRIVE SIDE	1



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REVISIONS				STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED				HYD - MECH GROUP LIMITED <small>The Rock Solid Solution</small>							
REV	ECN NUMBER	DATE	BY	DIMENSIONS ARE IN INCHES				TITLE							
				LINEAR	ANGULAR			S20A DRIVE BOX ASSEMBLY							
				.X +/- .015 IN	X.X +/- 0.5 DEG			MATERIAL CODE:	MATL:	SAW CUT LENGTH	DRWN BY: G-P	CHKD BY:	SCALE	SHEET	REV
				.XX +/- .010 IN	THIRD ANGLE PROJECTION			ASSEMBLY				DATE: 06/26/2006	DATE:	1 OF 3	-
				.XXX +/- .005 IN	X			OVERALL DIMENSIONS				PART WEIGHT			
				= 125 MICRONS	THK/OD	WIDTH/ID	WALL/WT	LENGTH	DRAWING NUMBER: S20A-3-00						

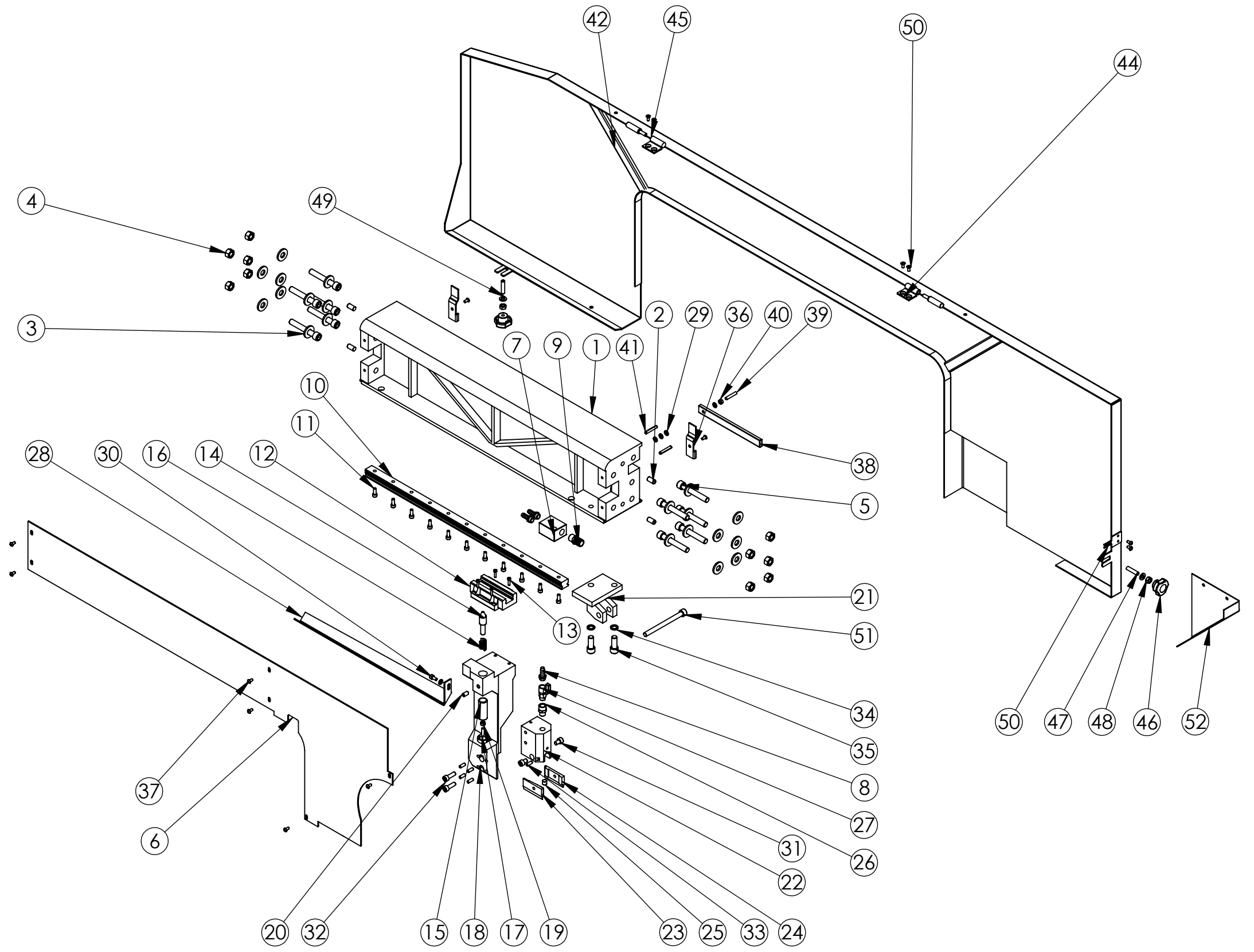
ITEM NO.	PART NUMBER	DESCRIPTION	S20A Idler Box/QTY.
1	001.5015	IDLER BOX	1
2	001.4030	SUPPORT BLOCK, BLADE TENSION	1
3	022.2152	ELECTRONIC TENSIONER	1
4	022.0369	CONNECTOR, COIL	1
5	007.5321	PIN, BLADE TENSION	1
6	010.0915	WASHER, BELLVILLE, 50 X 18	4
7	034.0212	HANDWHEEL, LARGE	1
8	007.4891	GIB, SLIDE	2
9	010.4021	PLATE, ADJUSTMENT, SLIDE GIB	2
10	395116	Bolt, Socket Head, Cap, M8 - 1.25 x 20	8
11	395105	Nut, Hex, M6 - 1.0	6
12	395153	Screw, Set, Flat Point, M6 - 1.0 x 25	4
13	395127	Screw, Set, Cone Point, M6 - 1.0 x 25	2
14	001.4404	SLIDE, BLADE TENSION	1
15	007.4824	PIN, LOCKING	1
16	390872	Bolt, Socket Head, Cap M8 - 1.25 x 30	4
17	007.4822	SHAFT, IDLER WHEEL	1
18	395131	Screw, Set, Dog Point, M8 - 1.25 x 16	1
19	001.5009	IDLER WHEEL	1
20	025.0075	BEARING, 32009X	2
21	025.0275	RING, GUARD, NILOS 32009X	2
22	010.0356	NUT, RING, SELF LOCKING, M45 - 1.5	1
23	016.0115	FRONT COVER, IDLER BOX	1
24	395157	Bolt, Socket Head, Cap, M6 - 1.0 x 16	10
25	395096	Bolt, Socket Head, Cap, M5 - 0.8 x 65	2
26	395169	Bolt, Button Head Cap, M5 - 0.8 x 10mm	5
28	034.1211	HANDLE, GN-565-20-128	1
29	390884	Bolt, Socket Head, Cap, M6 - 1.00 x 12	2
30	372423	SENSOR, PROXIMITY, M12 CONNECTOR	1
31	395094	Bolt, Socket Head, Cap, M10 - 1.5 x 120	1
32	50000728	BRACKET, MOUNTING, PROXY	1



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REVISIONS				STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED		HYD - MECH GROUP LIMITED <small>The Rock Solid Solution</small>		HYD - MECH GROUP LIMITED WOODSTOCK, ONTARIO, CANADA N4S 8A4					
REV	ECN NUMBER	DATE	BY	DIMENSIONS ARE IN INCHES		TITLE S20A IDLER BOX ASSEMBLY							
2	CORRECTED PART NUMBER OF IDLER WHEEL ITEM #19	DEC 2012	MS	LINEAR	ANGULAR	MATERIAL CODE	MATL:	SAW CUT LENGTH	DRWN BY: G-P	CHKD BY:	SCALE	SHEET	REV
				.X +/- .015 IN	X.X +/- 0.5 DEG	ASSEMBLY			DATE: Feb 09	DATE:	1:8	2 OF 3	2
				.XX +/- .010 IN		OVERALL DIMENSIONS							
				.XXX +/- .005 IN		THK/OD	WIDTH/ID	WALL/WT	LENGTH	PART WEIGHT	DRAWING NUMBER: S20A-3-00		
				= 125 MICRONS	THIRD ANGLE PROJECTION	X	X	X	X				

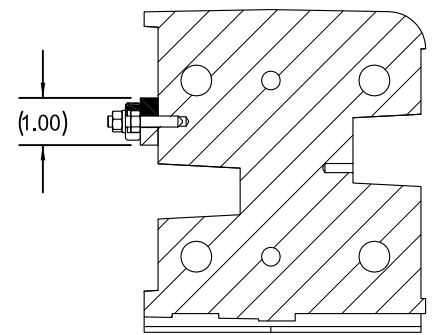
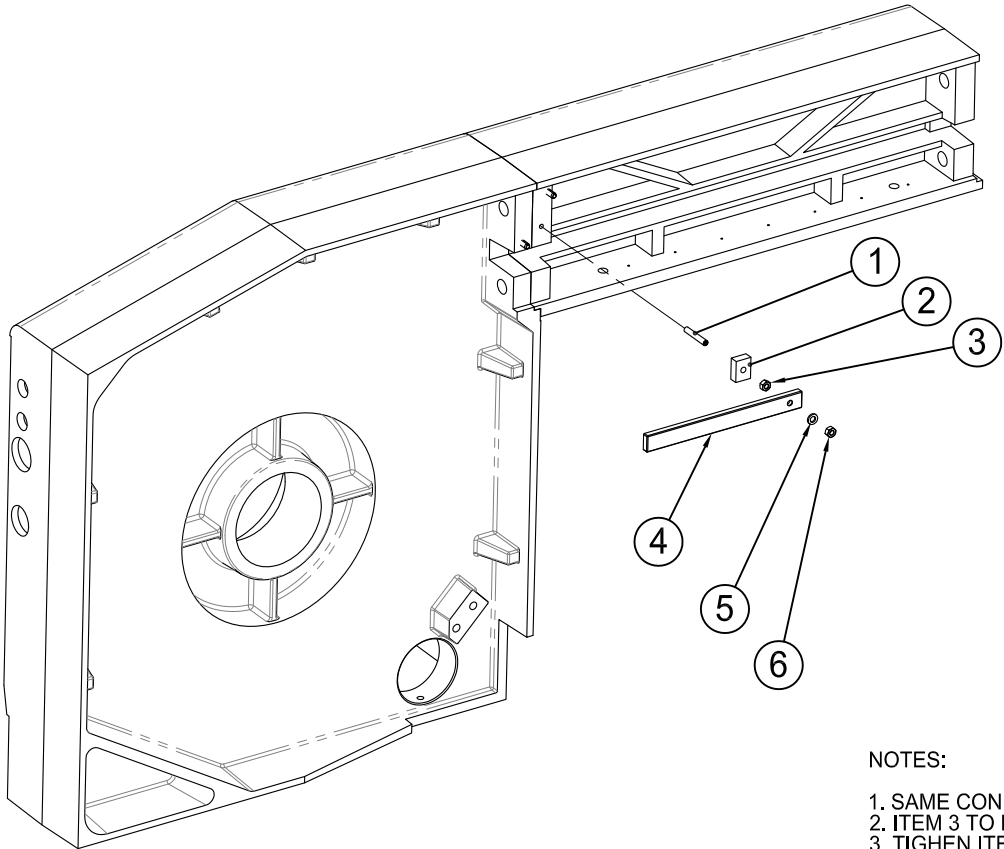
ITEM NO.	PART NUMBER	DESCRIPTION	S20A Head Beam/QTY.
1	001.5017	HEAD BEAM	1
2	393472	Pin, Dowel, 10mm x 20mm	4
3	394830	Washer, Lock, M12	20
4	392982	Nut, Lock, M12 -1.75	10
5	390893	Bolt, Socket Head, Cap, M12 - 1.75 x 80	10
6	016.0119	FRONT COVER, HEAD BEAM	1
7	007.4142	COOLANT BLOCK	1
8	028.0130	FITTING, 1/4-9 CL 2601	3
9	028.0121	FITTING, 3/8-17 CL 2601	1
10	010.2024	GUIDE RAIL, LGR25_640	1
11	395157	Bolt, Socket Head, Cap, M6 - 1.0 x 16	11
12	025.1152	BLOCK, LINEAR, LGW25H	1
13	395099	Bolt, Socket Head, Cap, M4 - 0.7 x 16	4
14	007.4831	PIN, LOCKING, MOVABLE GUIDE BLOCK	1
15	007.6662	BUSHING, LOCK PIN	1
16	010.0902	SPRING	1
17	034.1107	HANDWHEEL, 0 03 M6X20	1
18	001.5018	BRACKET, MOVABLE GUIDE BLOCK	1
19	395105	Nut, Hex, M6 - 1.0	1
20	395129	Screw, Set, Cone Point, M8 - 1.25 x 16	1
21	S20M-32-00A	WELDMENT, CYLINDER MOUNTING BRACKET	1
22	001.4022	GUIDE BLOCK, MOVABLE	1
23	010.1705	FRONT INSERT, MOVABLE BLOCK	1
24	010.1707	REAR INSERT, MOVABLE BLOCK	1
25	010.1721	BLADE PUSHER	1
26	043.0229	REDUCER, MF 1/4-CL2520	1
27	043.0652	TAP, 1/4 F.M.	1
28	016.1803	BLADE GUARD, IDLER SIDE	1
29	342525	Washer, Flat, M6	5
30	390884	Bolt, Socket Head, Cap, M6 - 1.00 x 12	1
31	395114	Bolt, Socket Head, Cap, M8 - 1.25 x 12	2
32	390665	Bolt, Socket, Cap M8-1.25x25	2
33	395098	Screw, Set, Flat Point, M6 - 1.0 x 16	5
34	394830	Washer, Lock, M12	2
35	390892	Bolt, Socket Head, Cap, M12 - 1.25 x 30	2
36	010.1530	PLATE, BLADE KEEPER	2
37	395169	Bolt, Button Head Cap, M5 - 0.8 x 10mm	12
38	007.4861	SUPPORT, HEAD COVER	1
39	395128	Screw, Set, Cone Point, M6 - 1.0 x 35	1
40	395106	Nut, Lock, M6 - 1.0	1
41	395137	Roll, Pin, 6mm x 36mm	2
42	016.0929A	S20MA , HEAD DOOR	1
44	003.0100-00	Weldment, Hinge, Head Door, Left Side	1
45	003.0101-00	Weldment, Hinge, Head Door, Right Side	1
46	034.1112	HANDWHEEL, 0 40 M8	2
47	395147	Screw, Set, Flat Point, M8 - 1.25 x 35	2
48	395093	Nut, Lock, M8 - 1.25	2
49	395102	Washer, Flat, M8	2
50	395126	Bolt, Socket Head, Flat, M5 - 0.8 x 12	4
50	372552	Key, Limit Switch Straight	1
51	395094	Bolt, Socket Head, Cap, M10 - 1.5 x 120	1
52	016.0191A	DOOR COOLANT COVER DRIVE SIDE	1



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REVISIONS				STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED		HYD - MECH GROUP LIMITED The Rock Solid Solution WOODSTOCK, ONTARIO, CANADA N4S 8A4	
REV	ECN NUMBER	DATE	BY	DIMENSIONS ARE IN INCHES		TITLE	
-	-	-	-	LINEAR		S20A HEAD BEAM ASSEMBLY	
-	-	-	-	ANGULAR		MATERIAL CODE: MATL: SAW CUT LENGTH DRWN BY: G.P. CHKD BY: SCALE SHEET REV	
				.X +/- .015 IN		DATE: Feb 09 DATE: 1:8 3 OF 3 -	
				.XX +/- .010 IN		PART WEIGHT COATING	
				.XXX +/- .005 IN		DRAWING NUMBER: S20A-3-00	
				= 125 MICRONS			

ITEM NO.	PART NUMBER	DESCRIPTION	EXPLODED/QTY.
1	395128	Screw, Set, Cone Point, M6 - 1.0 x 40	1
2	S23HMA-34-01	SPACER BLOCK	1
3	395105	Nut, Hex, M6 - 1.0	1
4	007.4861	SUPPORT, HEAD COVER	1
5	342525	Washer, Flat, M6	1
6	395106	Nut, Lock, M6 - 1.0	1



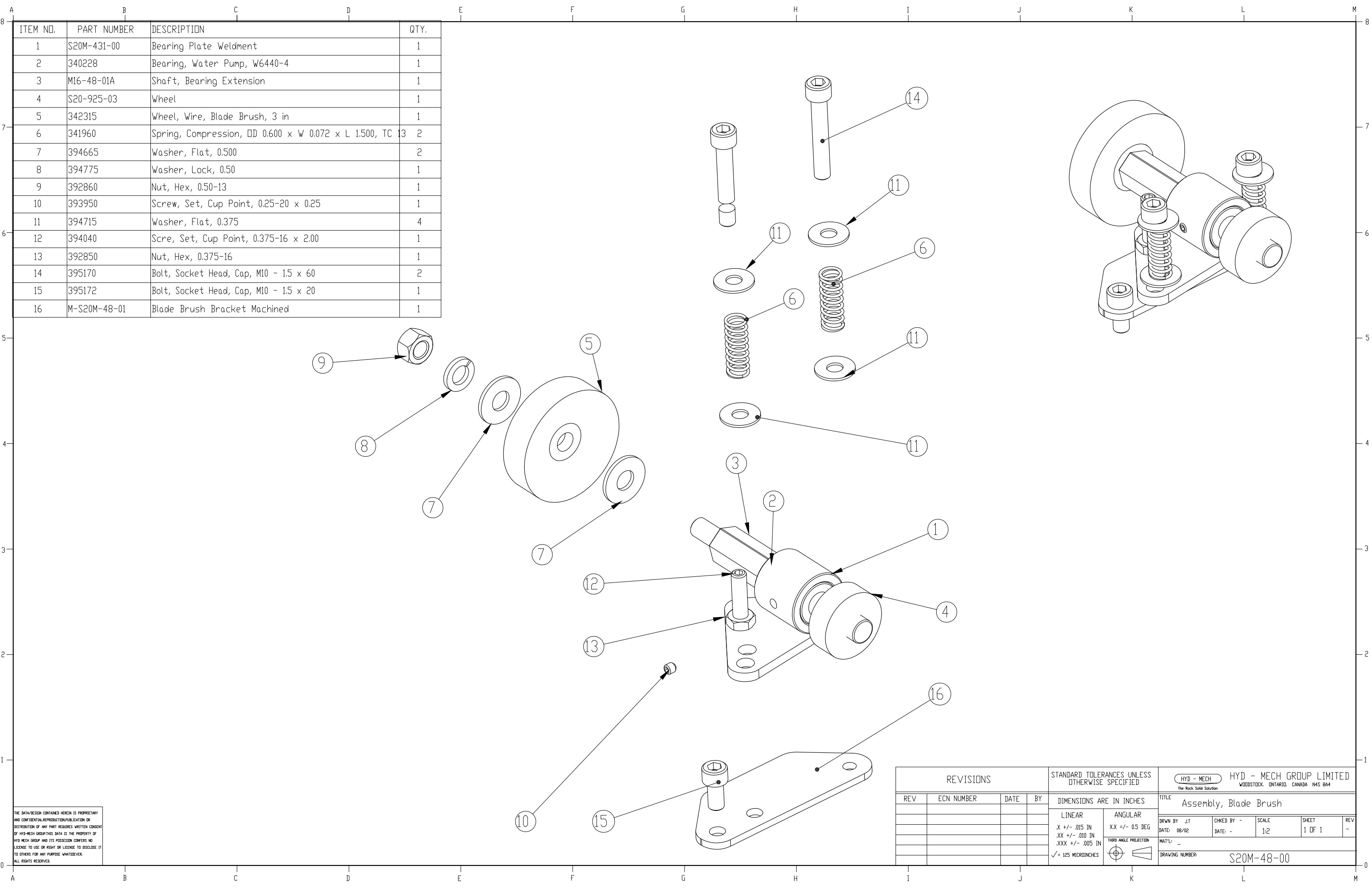
SECTION THROUGH MOUNTING
SCALE 1:4

NOTES:

1. SAME CONFIGURATION FOR S20 MACHINES
2. ITEM 3 TO BE TIGHTENED FIRMLY TO SECURE ITEM 2
3. TIGHEN ITEM 6 UNTIL ITEM 4 IS SNUG BUT STILL ROTATES.

REVISIONS				STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED		HYD - MECH GROUP LIMITED WOODSTOCK, ONTARIO, CANADA N4S 0A9								
REV	ECN NUMBER	DATE	BY	DIMENSIONS ARE IN INCHES		TITLE SECURITY ARM MOUNTING								
-	-	-	-	LINEAR		MATERIAL CODE:		MATL:	SAW CUT LENGTH	DRWN BY: RvS	CHKD BY:	SCALE	SHEET	REV
-	-	-	-	ANGULAR		ASSEMBLY				DATE: MARCH 2014	DATE:	1:16	1 OF 1	.
				.X +/- .015 IN		THK/OD		OVERALL DIMENSIONS		PART WEIGHT		COATING		
				.XX +/- .010 IN		WIDTH/ID		WALL/WT		LENGTH		DRAWING NUMBER: S23HMA-34-00		
				.XXX +/- .005 IN										
				= 125 MICRONCHES										
				THIRD ANGLE PROJECTION										

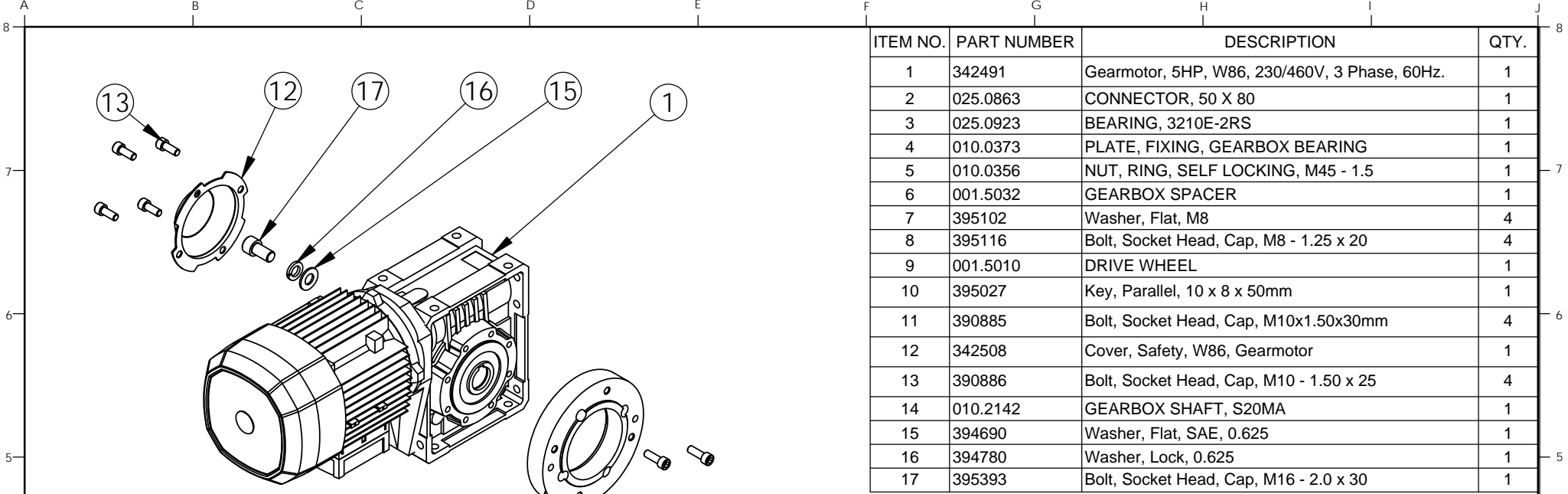
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	S20M-431-00	Bearing Plate Weldment	1
2	340228	Bearing, Water Pump, W6440-4	1
3	M16-48-01A	Shaft, Bearing Extension	1
4	S20-925-03	Wheel	1
5	342315	Wheel, Wire, Blade Brush, 3 in	1
6	341960	Spring, Compression, OD 0.600 x W 0.072 x L 1.500, TC 13	2
7	394665	Washer, Flat, 0.500	2
8	394775	Washer, Lock, 0.50	1
9	392860	Nut, Hex, 0.50-13	1
10	393950	Screw, Set, Cup Point, 0.25-20 x 0.25	1
11	394715	Washer, Flat, 0.375	4
12	394040	Scrc, Set, Cup Point, 0.375-16 x 2.00	1
13	392850	Nut, Hex, 0.375-16	1
14	395170	Bolt, Socket Head, Cap, M10 - 1.5 x 60	2
15	395172	Bolt, Socket Head, Cap, M10 - 1.5 x 20	1
16	M-S20M-48-01	Blade Brush Bracket Machined	1

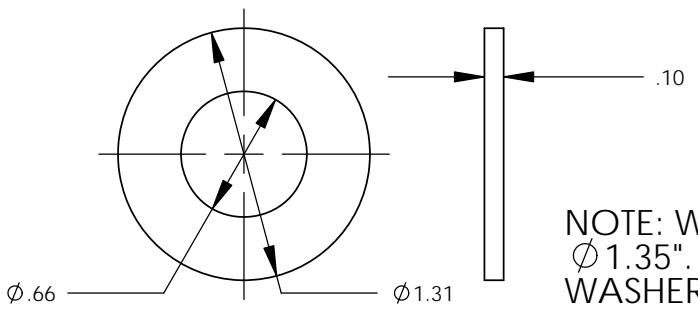
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REVISIONS				STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED		HYD - MECH GROUP LIMITED The Rock Solid Solution WOODSTOCK, ONTARIO, CANADA N4S 8A4				
REV	ECN NUMBER	DATE	BY	DIMENSIONS ARE IN INCHES		TITLE				
				LINEAR	ANGULAR	Assembly, Blade Brush				
				X +/- .015 IN	XX +/- 0.5 DEG	DRWN BY	CHKD BY	SCALE	SHEET	REV
				.XX +/- .010 IN		DATE: 08/02	DATE: -	1:2	1 OF 1	-
				.XXX +/- .005 IN	THIRD ANGLE PROJECTION	DRAWING NUMBER: S20M-48-00				
				√ = 125 MICRINCHES						



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	342491	Gearmotor, 5HP, W86, 230/460V, 3 Phase, 60Hz.	1
2	025.0863	CONNECTOR, 50 X 80	1
3	025.0923	BEARING, 3210E-2RS	1
4	010.0373	PLATE, FIXING, GEARBOX BEARING	1
5	010.0356	NUT, RING, SELF LOCKING, M45 - 1.5	1
6	001.5032	GEARBOX SPACER	1
7	395102	Washer, Flat, M8	4
8	395116	Bolt, Socket Head, Cap, M8 - 1.25 x 20	4
9	001.5010	DRIVE WHEEL	1
10	395027	Key, Parallel, 10 x 8 x 50mm	1
11	390885	Bolt, Socket Head, Cap, M10x1.50x30mm	4
12	342508	Cover, Safety, W86, Gearmotor	1
13	390886	Bolt, Socket Head, Cap, M10 - 1.50 x 25	4
14	010.2142	GEARBOX SHAFT, S20MA	1
15	394690	Washer, Flat, SAE, 0.625	1
16	394780	Washer, Lock, 0.625	1
17	395393	Bolt, Socket Head, Cap, M16 - 2.0 x 30	1

SAE FLAT WASHER DIMENSIONS



NOTE: WASHER DIAMETER CANNOT EXCEED $\phi 1.35$ ". IT IS RECCOMENDED TO USE SAE FLAT WASHER FOR 5/8 BOLT SIZE

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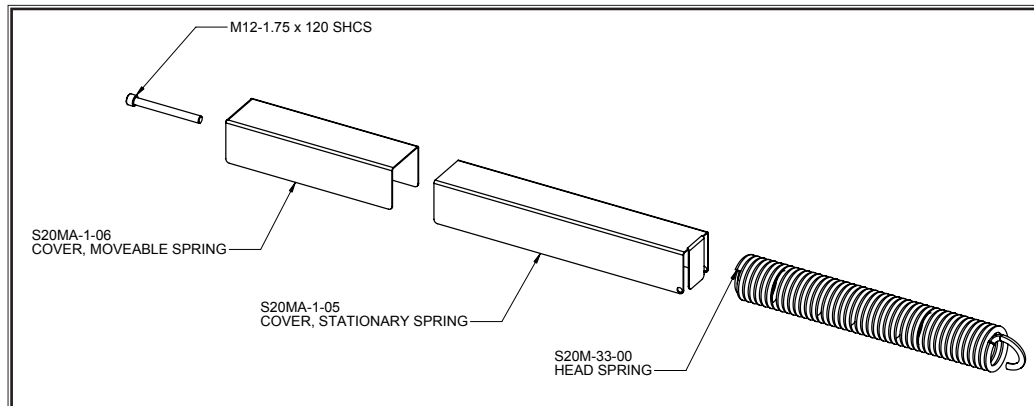
REVISIONS				STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED		HYD - MECH GROUP LIMITED	
REV	ECN NUMBER	DATE	BY	DIMENSIONS ARE IN INCHES		TITLE	
-00A	ECN00016	SEPT 2012	GP	LINEAR .X +/- .015 IN .XX +/- .010 IN .XXX +/- .005 IN = 125 MICRINCHES		ASSEMBLY	
2	CORRECTED PART NUMBER OF DRIVE WHEEL ITEM #9	DEC 2012	MS	ANGULAR .XX +/- 0.5 DEG		MATERIAL CODE: MATL: SAW CUT LENGTH	
				THIRD ANGLE PROJECTION		DRAWN BY: M.S. CHKD BY: SCALE SHEET REV	
				OVERALL DIMENSIONS		DATE: 06/26/2004 DATE: 1 OF 1 2	
				THK/OD WIDTH/ID WALL/WT LENGTH		DRAWING NUMBER: S20MA-49-00A	
				X X X			

S20A HEAD CYLINDER & HEAD SPRING ASSEMBLIES

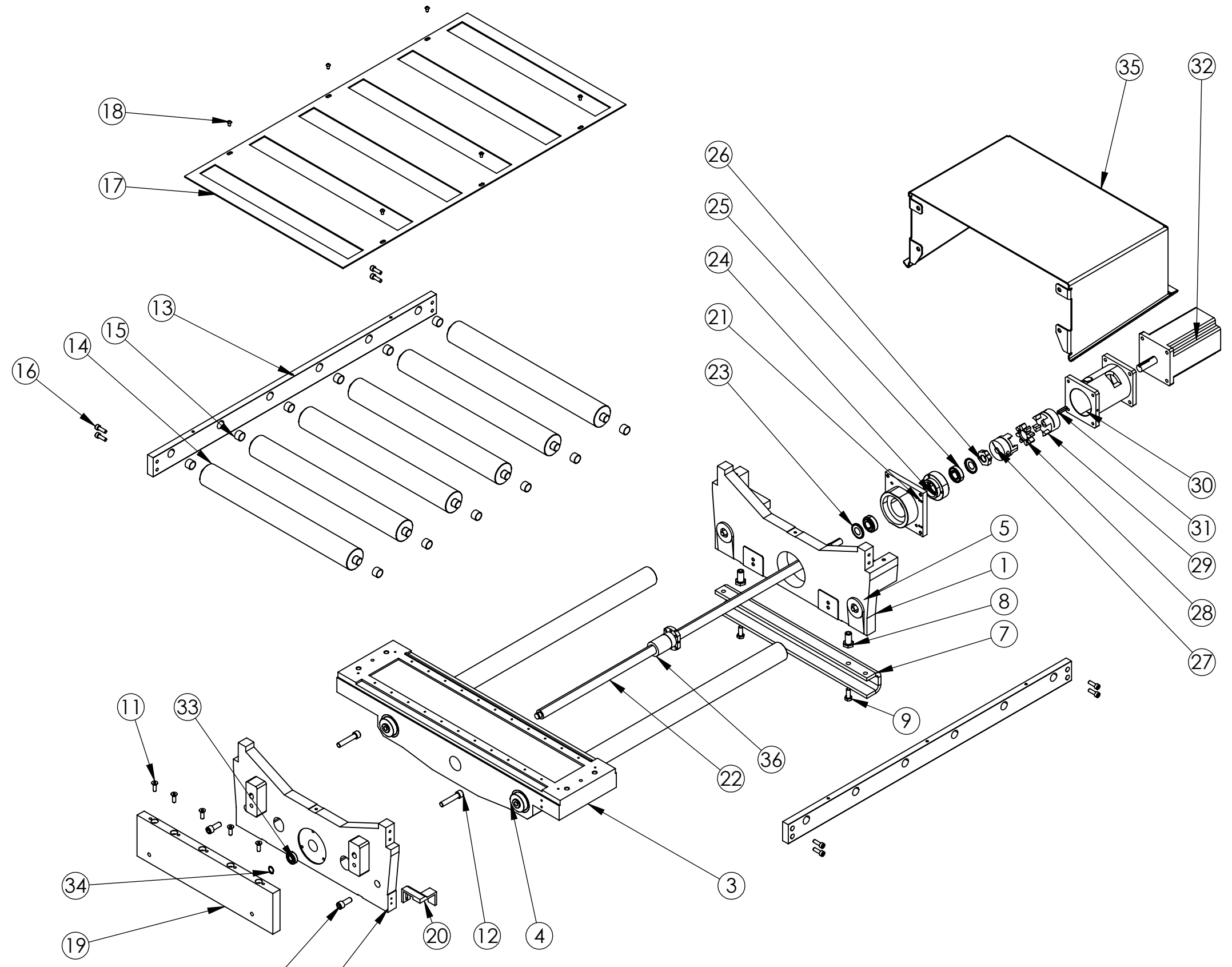


341775
ROD END, 0.5-20, CM-8

044.1036 (S20MA-C3-00)
CYLINDER, HEAD



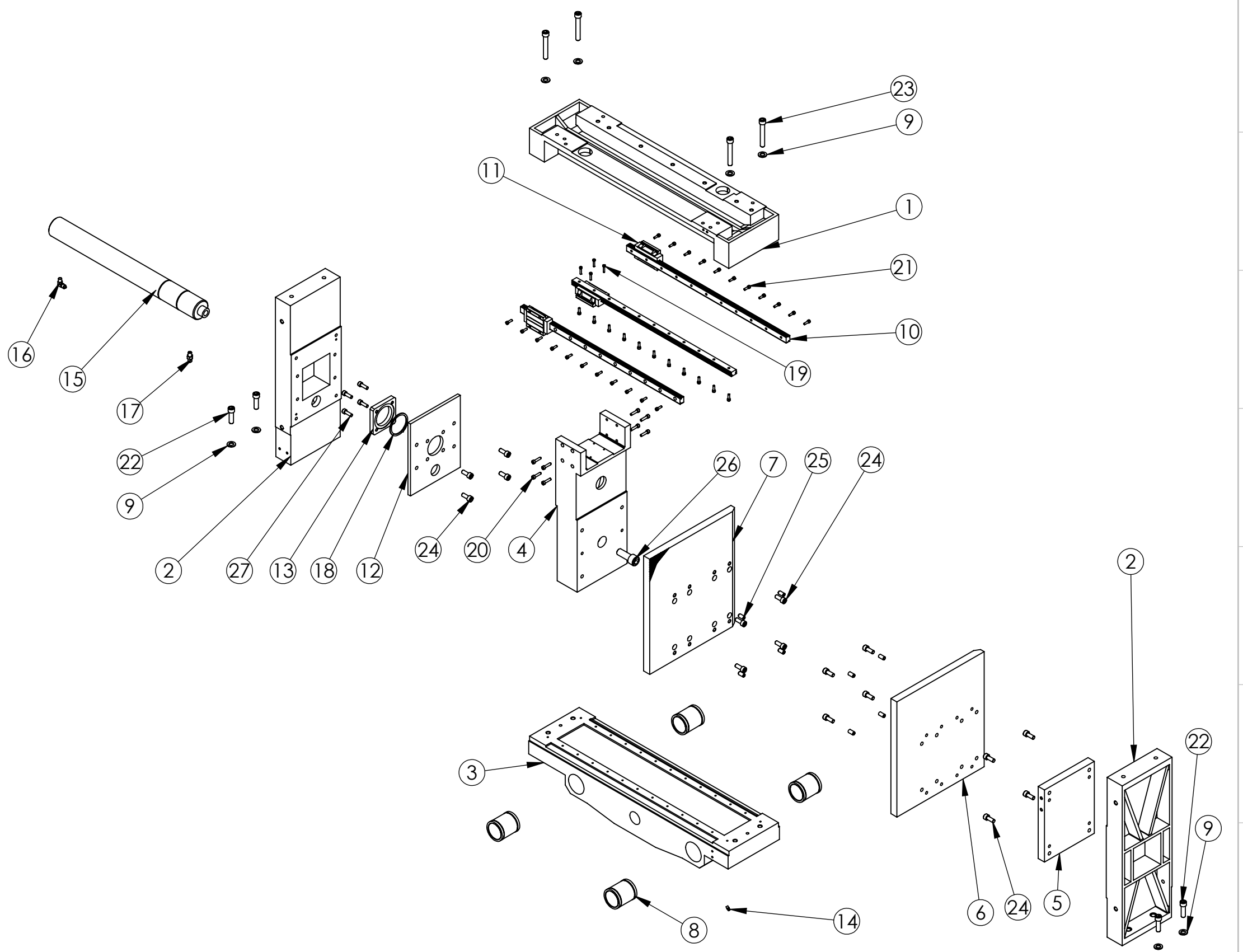
ITEM NO.	PART NUMBER	DESCRIPTION	CONVEYOR ASSEMBLY/QTY.
1	001.4934	REAR CONVEYOR BRACKET	1
2	001.4928	FRONT CONVEYOR BRACKET	1
3	001.4935	CONVEYOR CARRIAGE	1
4	010.3057	CONVEYOR CARRIAGE GUIDE	2
5	390892	Bolt, Socket Head, Cap, M12 - 1.25 x 30	4
6	010.1204	GREASE NIPPLE, M6	2
7	S20MA-5-05A	CONVEYOR SUPPORT	1
8	S20MA-5-08A	Bolt, Hex Head Cap, M10- 1.5 x 25	2
9	390420	Bolt, Hex Head, Cap, M10 - 1.5 x 25	2
10	800048	CYLINDER, VISE	1
11	395400	Bolt, Socket Head, Flat, M8 - 1.25 x 25	5
12	390438	Bolt, Socket Head, Cap, M12 - 1.75 x 60	2
13	010.2907	CONVEYOR ROLLER GUIDE S20A	2
14	010.0811	ROLLER Ø 65	6
15	025.0804	BUSHING, GRAPHITIZED, L 15 DIAM 20	12
16	390665	Bolt, Socket, Cap M8-1.25x25	8
17	016.0930	CONVEYOR COVER	1
18	395401	Bolt, Socket Head, Button, M6 - 1.0 x 10mm	6
19	S23HMA-12-01	Vertical Plate	1
20	010.1577	SHUTTLE HOME L/S BRACKET	1
21	001.4932	MOTOR MOUNTING FLANGE SH500NT	1
22	010.3019	BALL SCREW D25P10-ALIM-SH410-420	1
23	025.0273	NILOS SEAL RING (NILOS-32004)	2
24	007.6476	COLLAR SH410	1
25	025.0072	BEARING 32004X	2
26	010.0368	BALL SCREW RETAINING NUT SH410-420	1
27	025.0893	COUPLING 1A-RTX-24-AL-H16	1
28	025.0898	COUPLING INSERT RTX-24-98-GS	1
29	025.0894	COUPLING 1A-RTX-24-AL-H19	1
30	010.4705	MOTOR BELL HOUSING SH410-420	1
31	010.8357	KEY A6X6X32	1
32	019.3408	STEPPER MOTOR PP-FL110STH150-1304A-H	1
33	025.0969	BEARING 6002-2Z	1
34	010.1201	RETAINING RING-15	1
35	W-S20A-941-00	TABLE EXTENSION	1
36	010.3037	BALL SCREW NUT r25-10t3-rsi	1



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REVISIONS				STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED		HYD - MECH GROUP LIMITED The Rock Solid Solution WOODSTOCK, ONTARIO, CANADA N4S 8A4	
REV	ECN NUMBER	DATE	BY	DIMENSIONS ARE IN INCHES		TITLE	
				LINEAR	ANGULAR	ASSEMBLY	
				.X +/- .015 IN	X.X +/- 0.5 DEG	MATERIAL CODE:	MATL:
				.XX +/- .010 IN		SAW CUT LENGTH	DRWN BY:
				.XXX +/- .005 IN			CHKD BY:
				= 125 MICRONS	THIRD ANGLE PROJECTION	OVERALL DIMENSIONS	SCALE
						THK/OD	1:11
						WIDTH/D	SHEET
						WALL/WT	1 OF 2
						LENGTH	REV
							-
							DRAWING NUMBER:
							S20MA-5A-00

ITEM NO.	PART NUMBER	DESCRIPTION	SHUTTLE FRAME ASSEMBLY/QTY.
1	001.4922	CONVEYOR VISE BEAM	1
2	001.4923	CONVEYOR COLUMN	2
3	001.4935	COVEYOR CARRIAGE	1
4	001.4933	CONVEYOR UPPER VISE	1
5	007.6447	PLATE, MOUNTING, FIXED JAW	1
6	007.6559	FIXED VISE JAW	1
7	007.6560	MOVABLE VISE JAW	1
8	025.0044	RECIRCULATING BALL SLEEVE	4
9	395104	Washer, Schnorr, M12	8
10	010.2822	GUIDE RAIL, HGR 20R 0640	3
11	025.1151	GUIDE BLOCK, HGR 20R 0640	3
12	010.4029	CYLINDER PLATE	1
13	010.2323	WISE CYLINDER MOUNTING PLATE	1
14	010.1204	GREASE NIPPLE, M6	2
15	800048	CYLINDER, VISE	1
16	360530	Fitting, Hydraulic, Steel, Elbow Adapter 90, 2103-2-4	1
17	360370	FITTING, HYDRAULIC, ADAPTER, STRAIGHT	1
18	393560	RING, RETAINING, EXTERNAL, 2.375	1
19	395088	Bolt, Socket Head, Cap, M4 - 0.7 x 20	4
20	395087	Bolt, Socket Head, Cap, M6 - 1.0 x 25	8
21	390416	Bolt, Hex Head, Cap, M5-0.8 x 14mm	33
22	395117	Bolt, Socket Head, Cap, M12 - 1.75 x 40	4
23	390893	Bolt, Socket Head, Cap, M12 - 1.75 x 80	4
24	390886	Bolt, Socket Head, Cap, M10 - 1.50 x 25	16
25	395084	Screw, Set, Cup Point, M10 - 1.5 x 20	8
26	395083	Bolt, Socket Head, Cap, 0.75 - 10 x 2.0	1
27	390665	Bolt, Socket, Cap M8-1.25x25	4

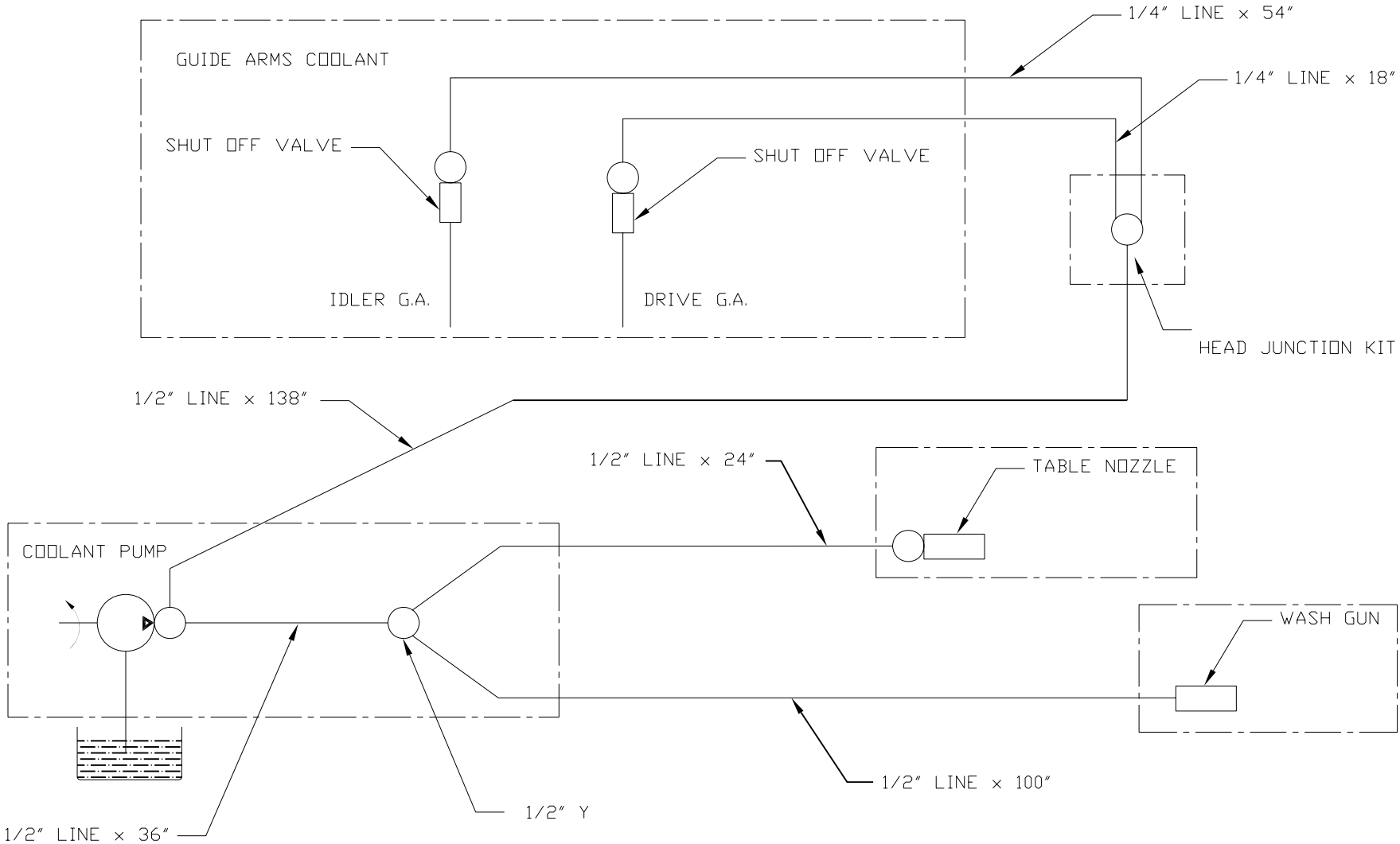


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REVISIONS				STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED		HYD - MECH GROUP LIMITED <small>The Rock Solid Solution</small>		WOODSTOCK, ONTARIO, CANADA N4S 8A4					
REV	ECN NUMBER	DATE	BY	DIMENSIONS ARE IN INCHES		TITLE							
				LINEAR	ANGULAR	Shuttle Frame Assy							
				.X +/- .015 IN	X.X +/- 0.5 DEG	MATERIAL CODE:	MATL:	SAW CUT LENGTH	DRWN BY:	CHKD BY:	SCALE	SHEET	REV
				.XX +/- .010 IN		ASSEMBLY			DATE:	DATE:	1:12	2 OF 2	-
				.XXX +/- .005 IN		OVERALL DIMENSIONS			PART WEIGHT		COATING		
				= 125 MICRONS	THIRD ANGLE PROJECTION	THK/OD	WIDTH/ID	WALL/WT	LENGTH	DRAWING NUMBER: S20MA-5A-00			
						X	X	X					

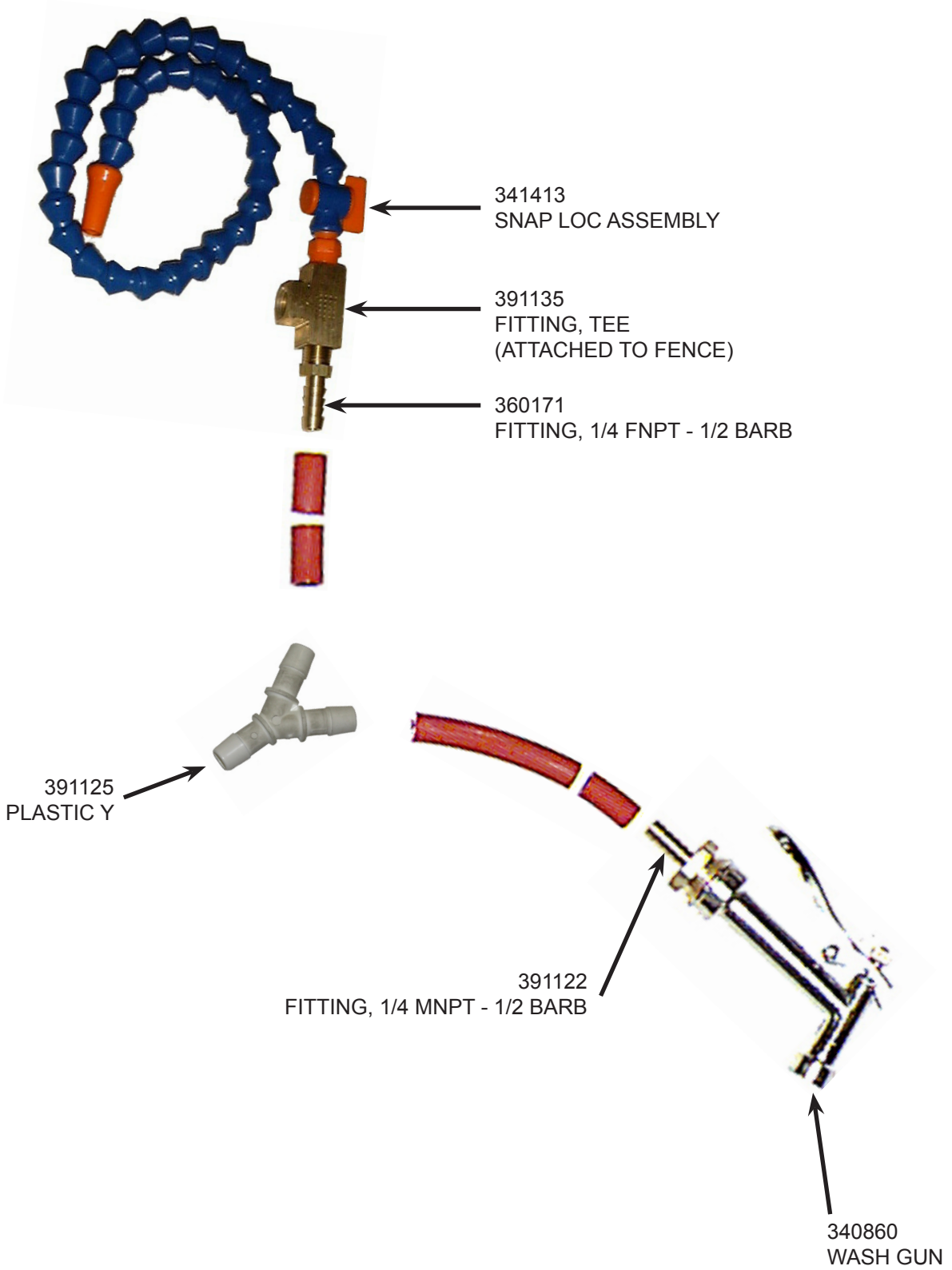
REV#	COORD	CHANGE MADE	DATE	FIRST MACHINE SERIAL NUMBER EFFECTED	APPROVED BY	REQUIREMENTS
-	-			-	-	1) BREAK ALL SHARP EDGES

RTG
OPER-1
-
OPER-2
-
OPER-3
-
OPER-4
-
OPER-5
-
OPER-6
-
OPER-7
-
OPER-8
-
OPER-9
-

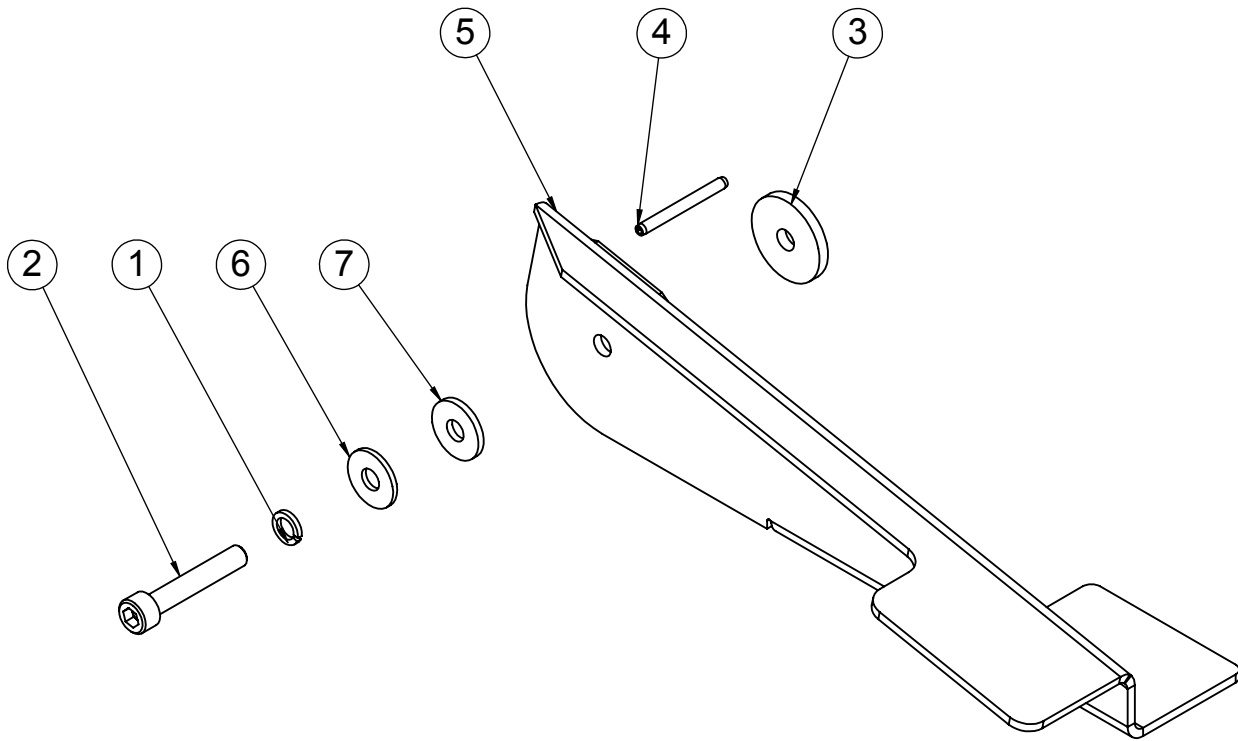


TOLERANCES UNLESS OTHERWISE SPECIFIED:			QTY/MACH.	MTL.WGT.	PART WGT.	DRAWN BY	DATE	CHKD BY	DATE	HYD-MECH ENG.	PART NUMBER
MACHINING AND CNC PUNCHING:			-	-	-	GP	DEC 05	-	-	WOODSTOCK, ONT.	S20M-8-00
ANGULAR:	X	+/- 0.5 DEG	FORMING, FLAME CUTTING, SHEARING AND SAWING:						SHEET 1 OF 1		
DEC:	.X	+/- .015 IN	MATERIAL CODE	OVERALL MATERIAL SIZE		CUT LENGTH		PART DESCRIPTION			
DEC:	.XX	+/- .010 IN	-	-		-		KIT, COOLANT SYSTEM			
DEC:	.XXX	+/- .005 IN									

COOLANT GROUP



ITEM#	PART NUMBER	DESCRIPTION	QTY
1	342529	Washer, Lock, M6	1
2	395149	Bolt, Socket Head, Cap, M6 - 1.0 x 35	1
3	395193	.25 LEATHER WASHER 639-002	1
4	393710	Roll Pin, 0.125 x 1.25	1
5	S23HMA-721-00A	WELDMNT, ACTUATOR, HEAD UP LIMIT SWITCH	1
6	340260	WASHER, THRUST, TRB-411	1
7	340270	BEARING, NEEDLE THRUST, NTA-411	1



REVISIONS				STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED	
REV	ECN NUMBER	DATE	BY	DIMENSIONS ARE IN INCHES	
-	-	-	-	LINEAR	ANGULAR
-	-	-	-	.X +/- .015 IN	.XX +/- 0.5 DEG
				.XX +/- .010 IN	
				.XXX +/- .005 IN	
				= 125 MICROINCHES	

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

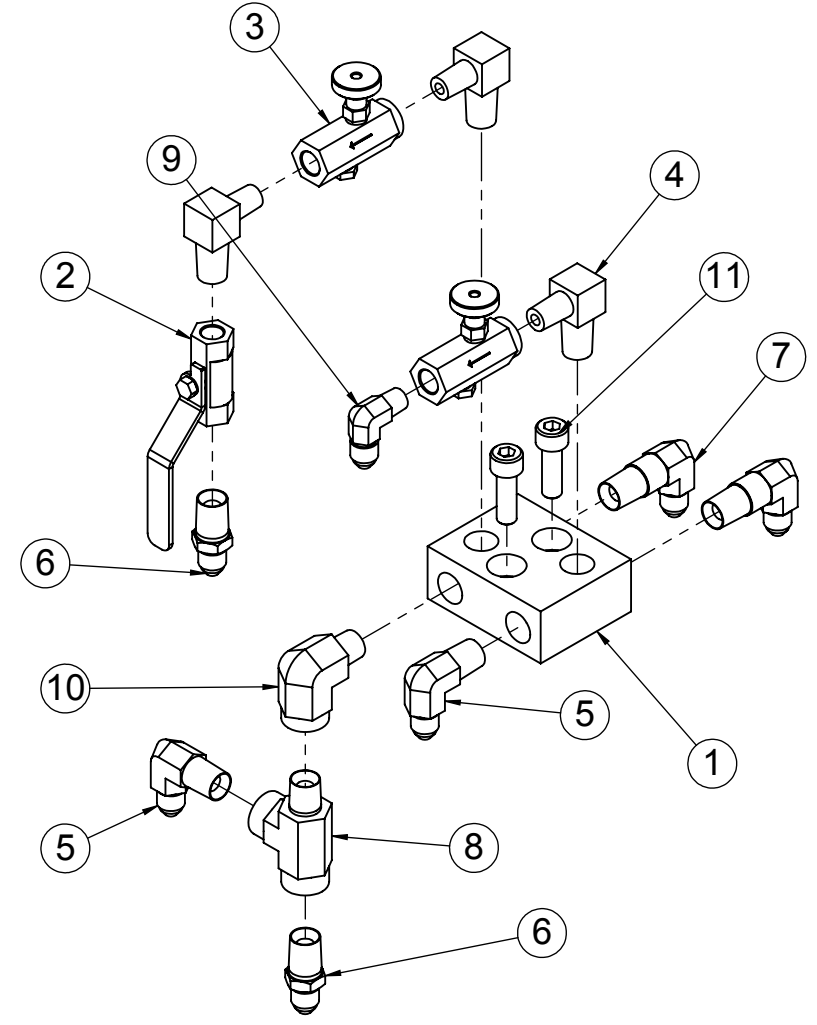
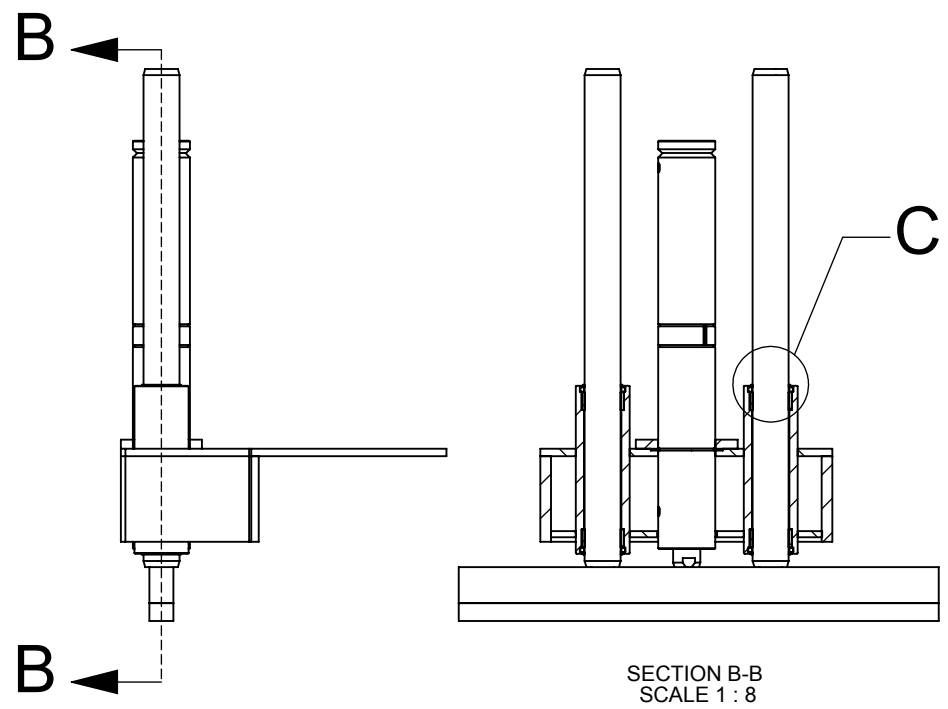
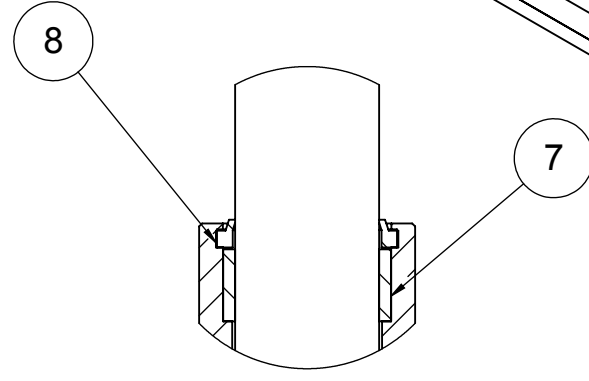
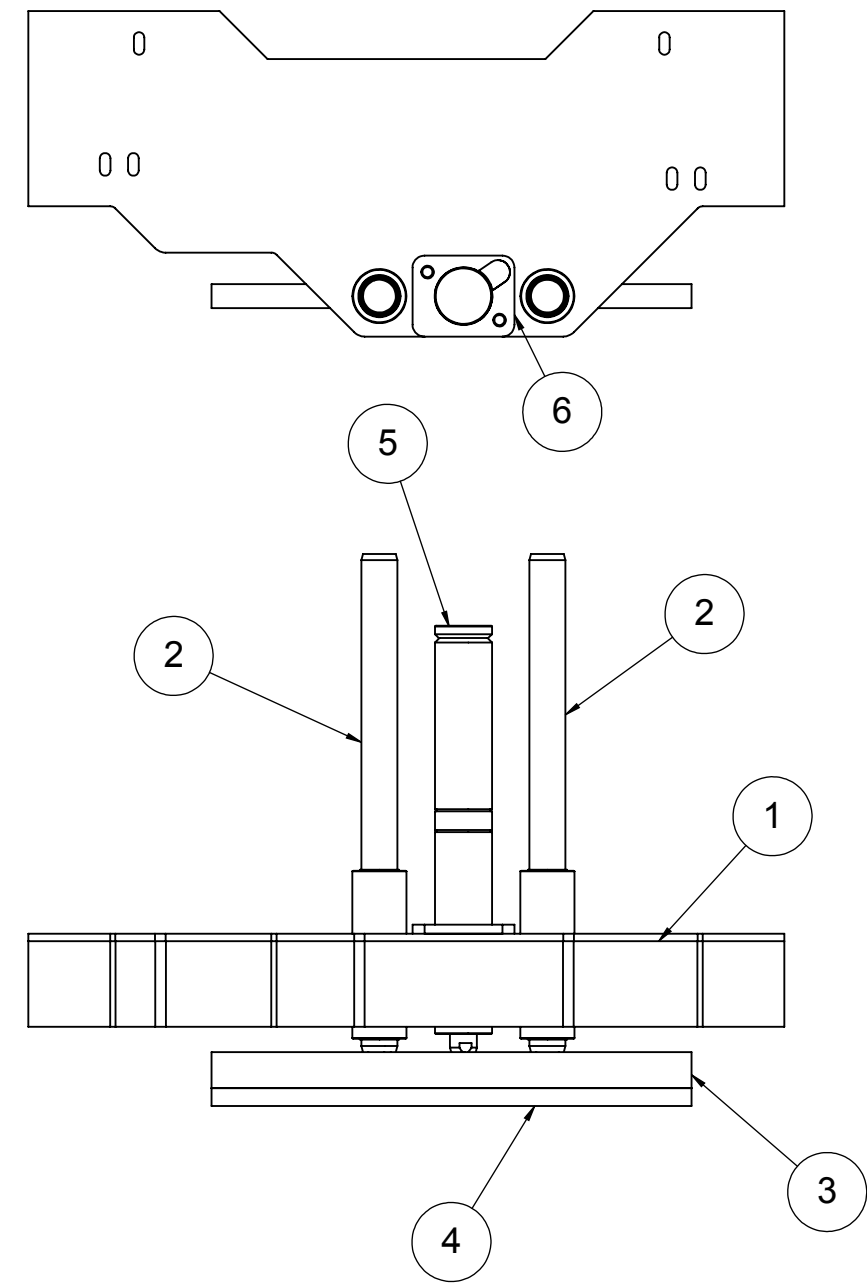
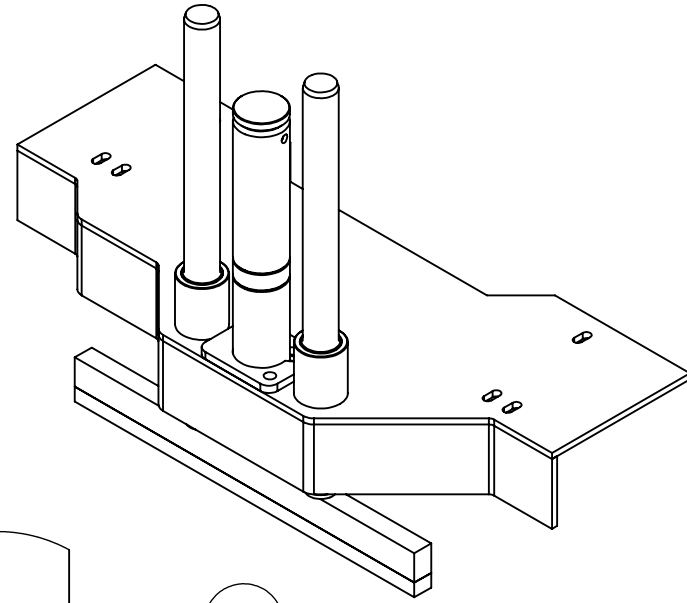
TITLE
ASSEMBLY, ACTUATOR, HEAD UP LIMIT SWITCH

MATERIAL CODE: ASSEMBLY	MATL:	SAW CUT LENGTH	DRWN BY: MS/LOS	CHKD BY:	SCALE 1:2	SHEET 1 OF 1	REV -
OVERALL DIMENSIONS			PART WEIGHT		COATING		
THK/OD	WDTH/ID	WALL/WT	LENGTH		DRAWING NUMBER: S23HMA-72-00		

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ITEM NO.	PART NUMBER	DESCRIPTION	Bndl 4/QTY.
1	S20MA-G541-00	SHUTTE BUNDLING FRAME	1
2	S20MA-G54-01	SHAFT	2
3	S20MA-G54-02	BUNDLING BAR	1
4	S20MA-G54-04	PLASTIC INSERT	1
5	044.1037	ASSEMBLY, CYLINDER, BUNDLING	1
6	S20MA-G54-03A	PLATE, CYLINDER MOUNTING	1
7	340679	BUSHING	4
8	363340	WIPER	4

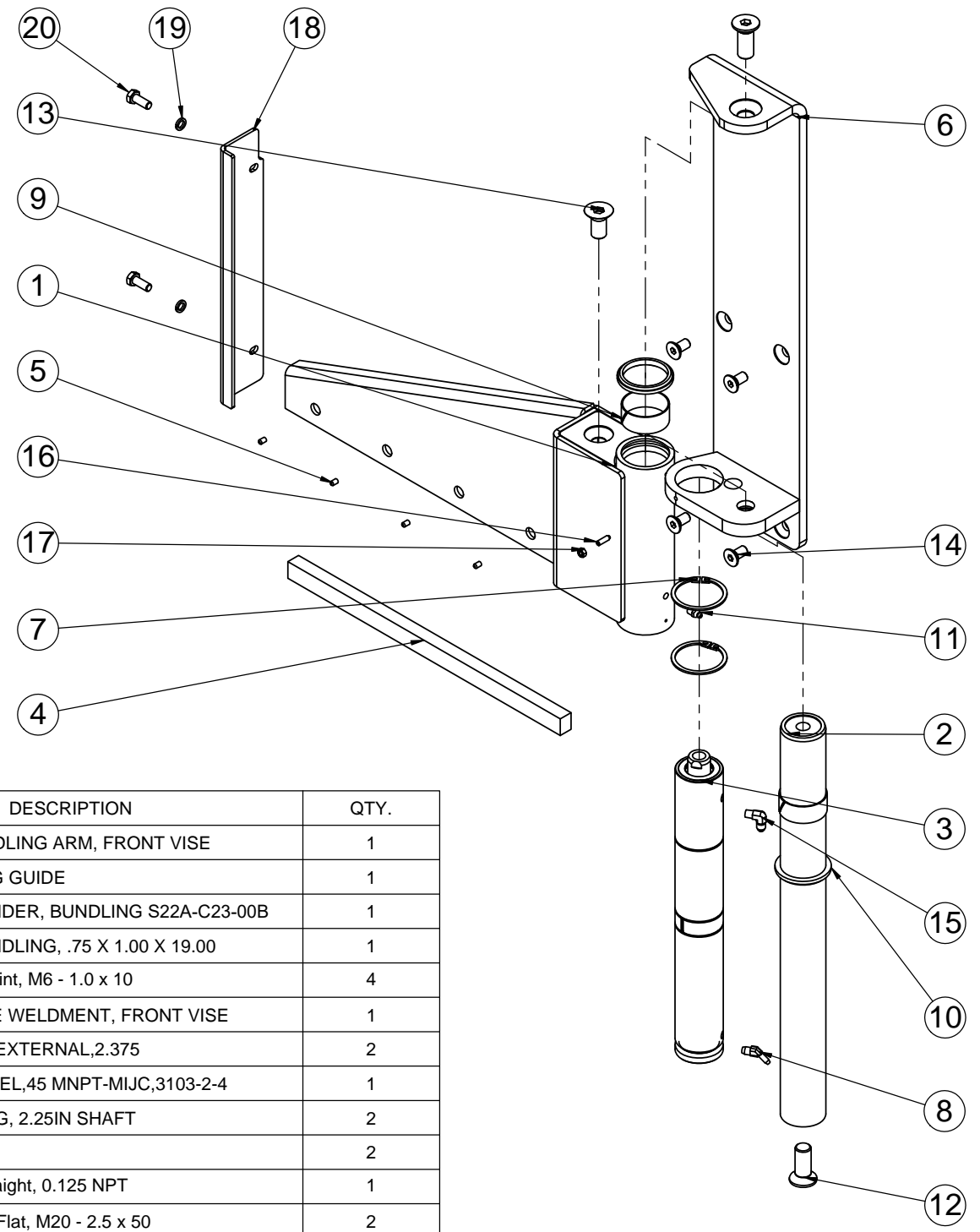
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	S25-6-03	WISE HOSE JUNCTION BLOCK	1
2	363210	VALVE, INLINE 0.25 IN. BALL FNPT-FNPT	1
3	363220	VALVE, INLINE NEEDLE FNPT-FNPT WITH KNOB	2
4	360520	FITTING, HYDRAULIC, STEEL, 90 MNPT-MNPT	3
5	360535	FITTING, HYDRAULIC, STEEL, ELBOW ADAPTER	2
6	360375	FITTING, HYDRAULIC, ADAPTER, STRAIGHT, M	2
7	360070	FITTING, HYDRAULIC, STEEL, 90 EXTRA LONG	2
8	360660	FITTING, PIPE ADAPTER, TEE MNPT-FNPT, 01	1
9	360530	FITTING, HYDRAULIC, STEEL, ELBOW ADAPTER	1
10	360495	FITTING, PIPE ADAPTER, 90 MNPT-FNPT, 210	1
11	390665	Bolt, Socket, Cap M8-1.25x25	2



SCALE 1 : 3

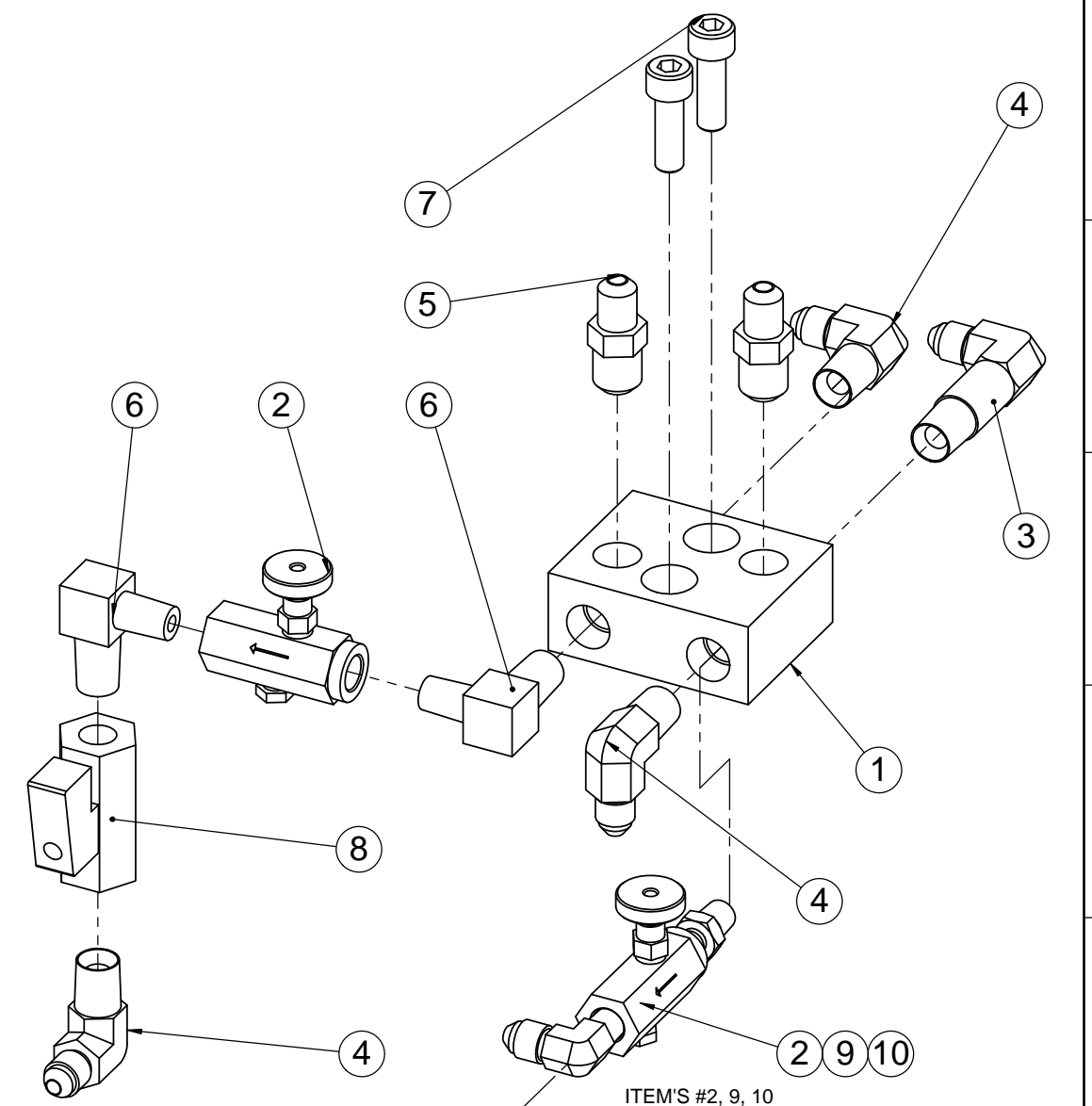
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REVISIONS				STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED		HYD - MECH GROUP LIMITED <small>The Rock Solid Solution</small>		HYD - MECH GROUP LIMITED <small>WOODSTOCK, ONTARIO, CANADA N4S 8A4</small>								
REV	ECN NUMBER	DATE	BY	DIMENSIONS ARE IN INCHES		TITLE		MATERIAL CODE		SAW CUT LENGTH		DRWN BY: W.R.	CHKD BY:	SCALE	SHEET	REV
1	W00-0421	JULY 2009	MS	LINEAR .X +/- .015 IN .XX +/- .010 IN .XXX +/- .005 IN = 125 MICRONS		ANGULAR X.X +/- 0.5 DEG		ASSEMBLY		0		DATE: 10/2/08	DATE:	1:8	1 OF 1	1
								OVERALL DIMENSIONS		PART WEIGHT		DRAWING NUMBER:				
								THK/OD		83.655		S20MA-G54-00				
								WIDTH/ID								
								WALL/WT								
								LENGTH								



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	S25-6-03	WISE HOSE JUNCTION BLOCK	1
2	363220	VALVE, INLINE NEEDLE FNPT-FNPT WITH KNOB	2
3	360070	Fitting,Hydraulic, Steel, 90 Extra Long, MNPT-MJIC, 5703-4-4	1
4	360535	FITTING, HYDRAULIC, STEEL, ELBOW ADAPTER	3
5	360375	FITTING, HYDRAULIC, ADAPTER, STRAIGHT	2
6	360520	FITTING, HYDRAULIC, STEEL, 90 MNPT-MNPT	2
7	390665	Bolt, Socket, Cap M8-1.25x25	2
8	363184	VALVE, MINI BALL 0.25 IN	1
9	360395	FITTING, HYDRAULIC, ADAPTER, STRAIGHT	1
10	360530	FITTING, HYDRAULIC, STEEL, ELBOW ADAPTER	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	S20MA-532B-00	WELDMENT, BUNDLING ARM, FRONT VISE	1
2	S20MA-53-01	SHAFT, BUNDLING GUIDE	1
3	044.1037	ASSEMBLY, CYLINDER, BUNDLING S22A-C23-00B	1
4	342275	WEAR STRIP, BUNDLING, .75 X 1.00 X 19.00	1
5	395076	Screw, Set, Cup Point, M6 - 1.0 x 10	4
6	M-S20MA-533B-00	BUNDLING FRAME WELDMENT, FRONT VISE	1
7	393560	RING,RETAINING,EXTERNAL,2.375	2
8	360445	FITTING,HYD.,STEEL,45 MNPT-MJIC,3103-2-4	1
9	342165	STRIP, WEAR RING, 2.25IN SHAFT	2
10	363320	WIPER, 2.25 IN.	2
11	391175	Fitting, Grease, Straight, 0.125 NPT	1
12	395077	Bolt, Socket Head, Flat, M20 - 2.5 x 50	2
13	390610	Bolt, Socket Head, Flat, 0.75-10 x 1.5	1
14	390660	Bolt, Socket Head, Flat, M12-1.75 x 25.00	4
15	360530	FITTING, HYDRAULIC, STEEL, ELBOW ADAPTER	1
16	395075	Screw, Set, Dog Point, M6 - 1.0 x 20	1
17	395105	Nut, Hex, M6 - 1.0	1
18	S20MA-53-04A	GUIDE	1
19	342531	Washer, Lock, M10	2
20	390420	Bolt, Hex Head, Cap, M10 - 1.5 x 25	2



ITEM'S #2, 9, 10
USED ON "P" MACHINES INSTEAD OF ITEM #4

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REVISIONS				STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED		HYD - MECH GROUP LIMITED <small>The Rock Solid Solution</small>	
REV	ECN NUMBER	DATE	BY	DIMENSIONS ARE IN MILLIMETERS		TITLE	
B-00A	ECN00197	APRIL 2015	MSILOS	LINEAR		ASSEMBLY, BUNDLING OPTION, FRONT VISE	
				X +/- 0.5	ANGULAR	MATERIAL CODE:	MATL:
				X.X +/- .25	X.X +/- 0.5 DEG	ASSEMBLY	SAW CUT LENGTH
				X.XX +/- 0.1	THIRD ANGLE PROJECTION	DATE: 04/18/2005	DRWN BY: M.S.
				✓ = 125 MICROMETERS		DATE:	CHKD BY:
						SCALE: 1:8	SHEET: 1 OF 1
						OVERALL DIMENSIONS	REV: 1
						THK/OD	DRAWING NUMBER: S20MA-G532B-00A
						WIDTH/D	
						WALL/WT	
						LENGTH	
						COATING	

VARIABLE VISE PRESSURE



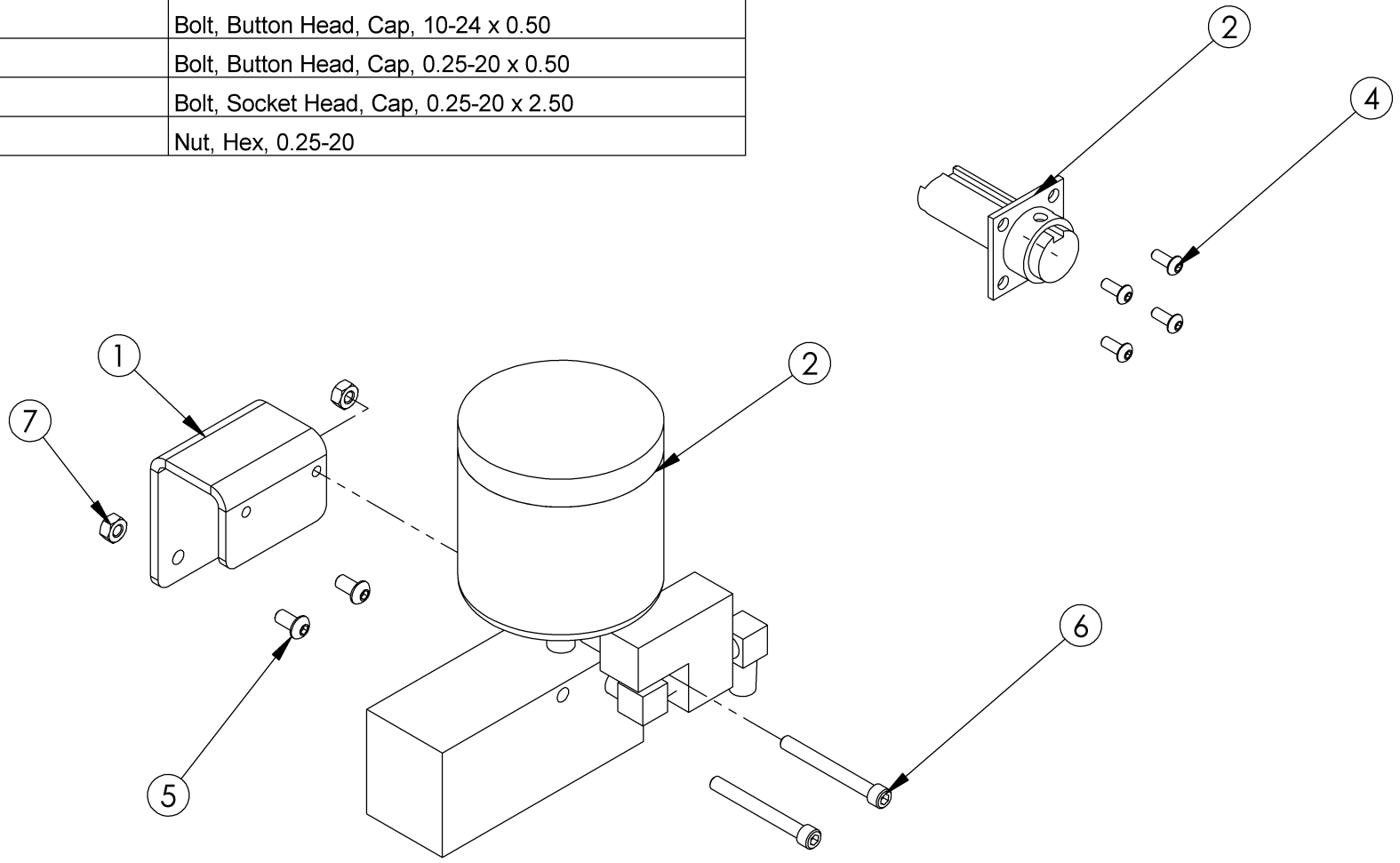
392807
Shuttle Vise Pressure Label

392806
Vise Pressure Label

360745
Pressure Gauge

363235
Inline Pressure Reducing Valve

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	VW18-96A-01	Bracket Dispencer Unit Mounting
2	1	341515	Mist System, Cool
3	2	360515	Fitting, Hydraulic, Steel, 90 MNPT-MNPT, 2101-2-4
4	4	390025	Bolt, Button Head, Cap, 10-24 x 0.50
5	2	390022	Bolt, Button Head, Cap, 0.25-20 x 0.50
6	2	390680	Bolt, Socket Head, Cap, 0.25-20 x 2.50
7	2	392835	Nut, Hex, 0.25-20



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REVISIONS				STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED		HYD - MECH GROUP LIMITED	
REV	ECN NUMBER	DATE	BY	DIMENSIONS ARE IN INCHES		TITLE	
				LINEAR	ANGULAR	ASSEMBLY, MIST COOL, GENERIC	
				.X +/- .015 IN	X.X +/- 0.5 DEG	MATERIAL CODE:	MAT'L:
				.XX +/- .010 IN		ASSEMBLY	
				.XXX +/- .005 IN	THIRD ANGLE PROJECTION	SAW CUT LENGTH	DRWN BY: M.S.
				= 125 MICROINCHES			CHKD BY:
						OVERALL DIMENSIONS	SCALE
						THK/OD	1:3
						WDTH/ID	SHEET
						WALL/WT	2 OF 2
						LENGTH	REV
							-
						PART WEIGHT	
						COATING	
						DRAWING NUMBER:	VW18-96A-00