

QINEO Pulse Pro non compact

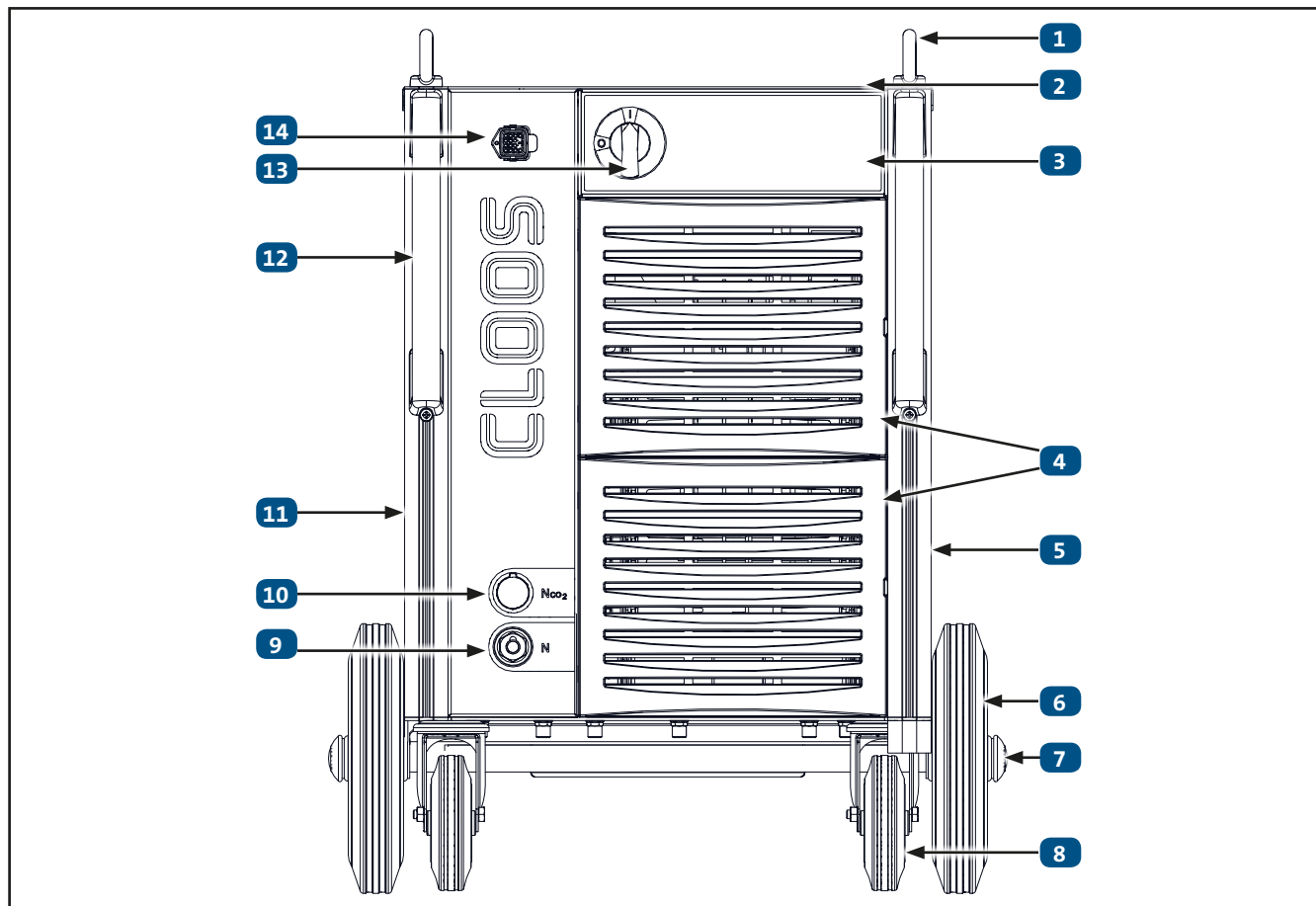
Spare parts lists and electrical parts lists

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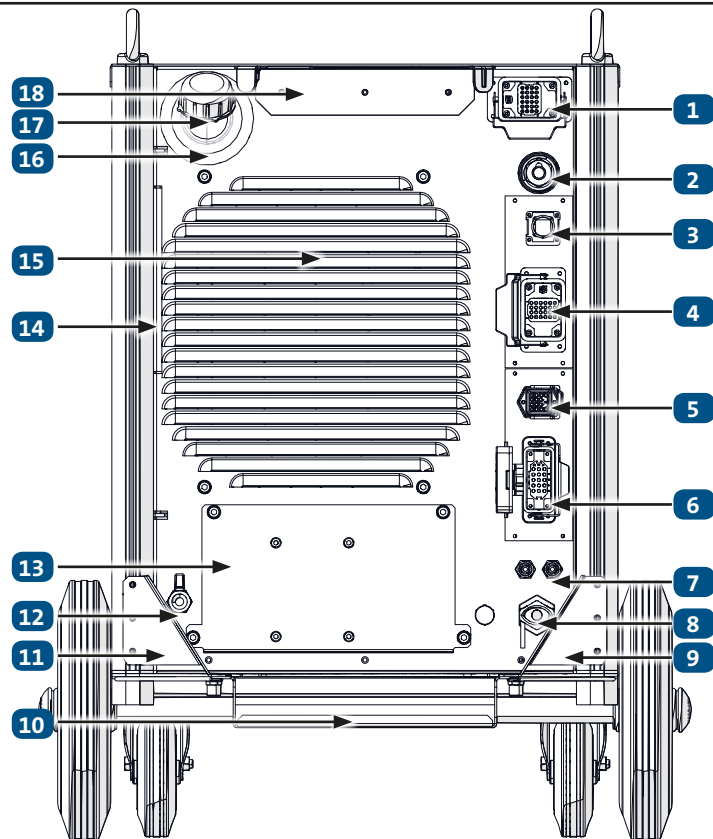
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1. Illustrations and spare parts lists

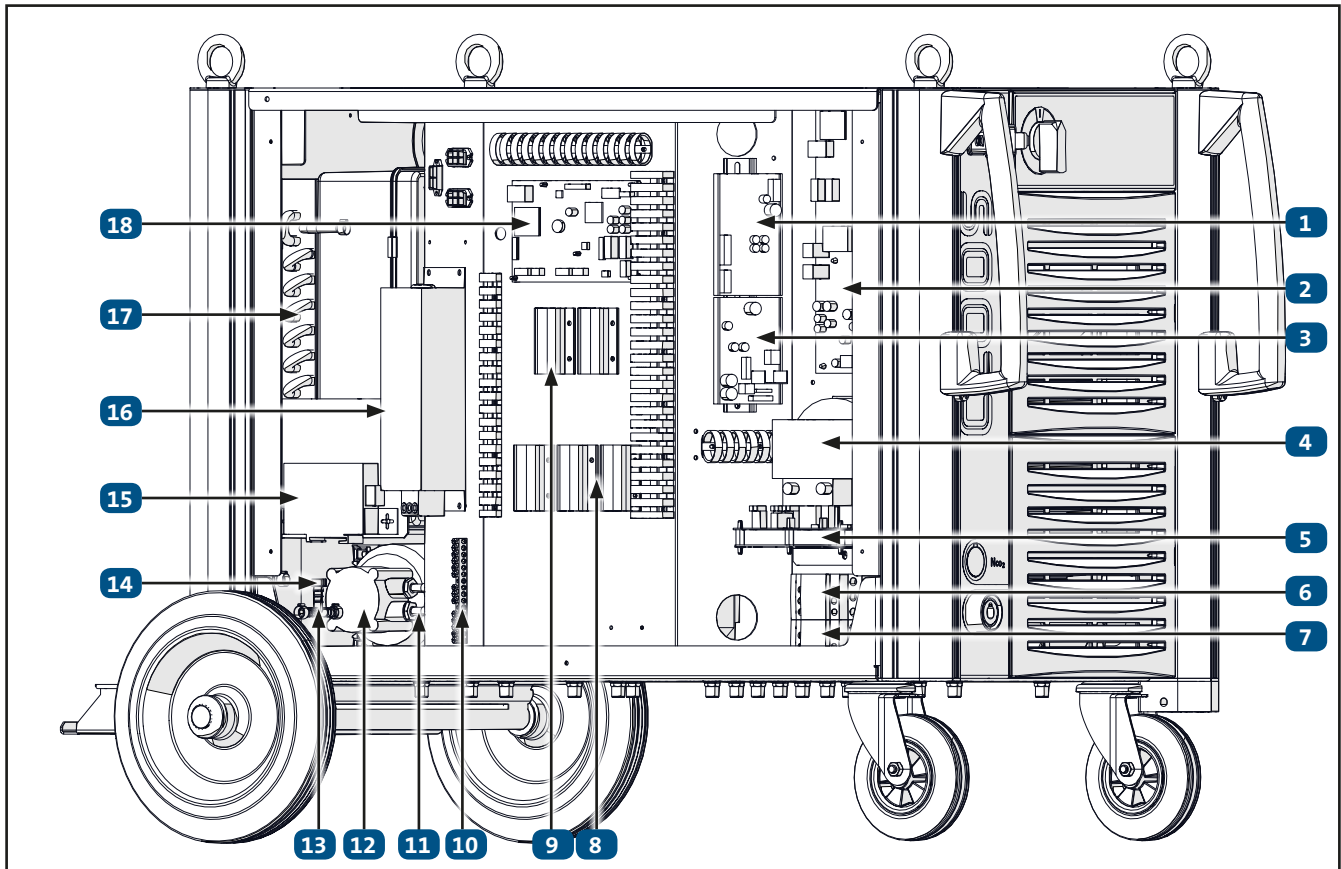
Qineo PULSE Pro



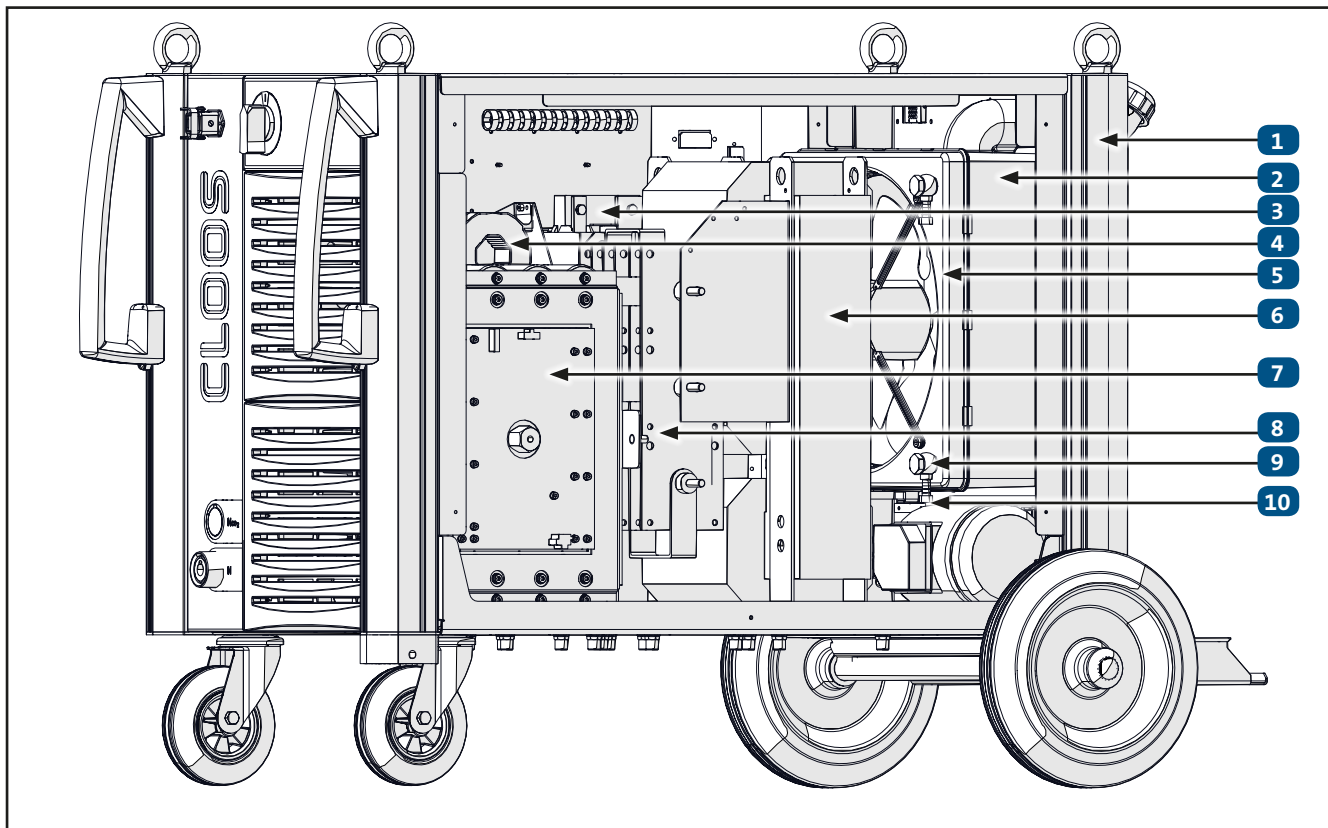
Item	Designation	Option	Application			Cooling		Part number
			PULSE Pro 351	PULSE Pro 451	PULSE Pro 601	Water	Air	
1	Ring bolt							0101 90 12 00
2	Lid							0830 00 15 64
3	Scale switch front							0831 00 45 01
4	Plastic cover "A" air entry							0830 00 00 40
	Filter mat, complete	Filter						0095 02 20 10
5	Side panel right							0830 01 12 56
6	Wheel rear axle							0831 00 10 15
7	Quick fastener							0049 01 04 10
8	Wheel front axle							0049 06 00 42
	Optional "Offroad" wheel front axle, 200mm	OffRoad						0049 06 00 43
9/10	Weld current connector 50/70²		x	x	-			0073 03 70 00
	Weld current connector 95²		-	-	x			0073 03 95 00
11	Side panel left							0830 01 12 57
12	Handle welding power source							0830 00 00 75
13	Mains switch, ON/OFF							0003 26 10 05
14	Installation kit Q-RPU (Remote Process Unit)	RPU						0890 05 07 10



Item	Designation	Option	Application			Cooling		Part number
			PULSE Pro 351	PULSE Pro 451	PULSE Pro 601	Water	Air	
1	Connection wire drive Mounted housing 24 pole Bushing part							0010 11 00 71 0010 09 13 15
2	Weld current connector 50/70² Weld current connector 95²		x	x	-			0073 03 70 00 0073 03 95 00
3	Ethernet connection Mounted housing RJ45 Socket insert RJ45				x			0033 07 76 05 0033 07 76 00
4	System plug connection (CAN, seam tracking, gas nozzle sensor) Mounted housing 24 pole Bushing part	CAN, NS, GDS CAN, NS, GDS CAN, NS, GDS						0010 11 00 71 0010 09 13 15
5	Connection external cooling Mounted housing 12 pole Pin	ext. Cooler ext. Cooler ext. Cooler						0010 09 25 04 0010 09 25 14
6	Pulse synchronisation connection Mounted housing 15 pole Bushing part Pulse synchronisation control	TD TD TD TD						0010 09 13 05 0010 09 18 29 0033 05 96 00
7	Coolant supply - blue plug-type coupling Coolant return - red plug-type coupling							0032 03 01 41 0032 03 01 40
8	Cable screw connection M32/08 Cable screw connection M32/12		x	x	-			0035 03 80 00 0035 03 80 01
9	Reinforcing plate right Rail for aluminium profile	OffRoad / bottle holder OffRoad / bottle holder			x			0830 00 12 52 0830 00 12 53
10	Bottle holder bottom Offroad, bottle holder bottom Reinforcing plate left Rail for aluminium profile	Bottle holder OffRoad / bottle holder OffRoad / bottle holder OffRoad / bottle holder						0830 00 12 24 0830 00 12 34 0830 00 12 51 0830 00 12 53
12	Drain valve					x	-	0054 01 02 02
13	Maintenance plate pump					x	x	0830 01 10 04
14	Hose level indicator					x	-	0040 01 16 00
15	Rear panel							0830 01 12 51
16	Cover D=75 mm					-	x	0097 01 01 15
17	Cover for water tank					x	-	0054 10 03 02
18	Bottle holder on top Chain for bottle holder	Bottle holder Bottle holder						0830 00 12 03 0049 08 14 06
A	Q-OMI cpl. (no illus.) Mounted housing Socket insert 72 pole Crimp contact Control board	Q-OMI Q-OMI Q-OMI Q-OMI Q-OMI						0831 05 81 00 0010 09 18 52 0010 09 19 03 0010 09 18 80 0033 05 81 00
	Distance bolt PC board	Q-OMI						0049 01 49 65
	Q-VBC ProfiBus complete (no illus.) Control board Distance bolt PC board	Q-VBC PB Q-VBC PB Q-VBC PB						0831 05 80 00 0033 05 80 00 0049 01 49 65
	Q-VBC ProfiNet complete (no illus.) Control board Distance bolt PC board	Q-VBC PN Q-VBC PN Q-VBC PN						0831 05 80 10 0033 05 80 10 0049 01 49 65
	Q-VBC DeviceNet complete (no illus.) Control board Distance bolt PC board	Q-VBC DN Q-VBC DN Q-VBC DN						0831 05 80 20 0033 05 80 20 0049 01 49 65

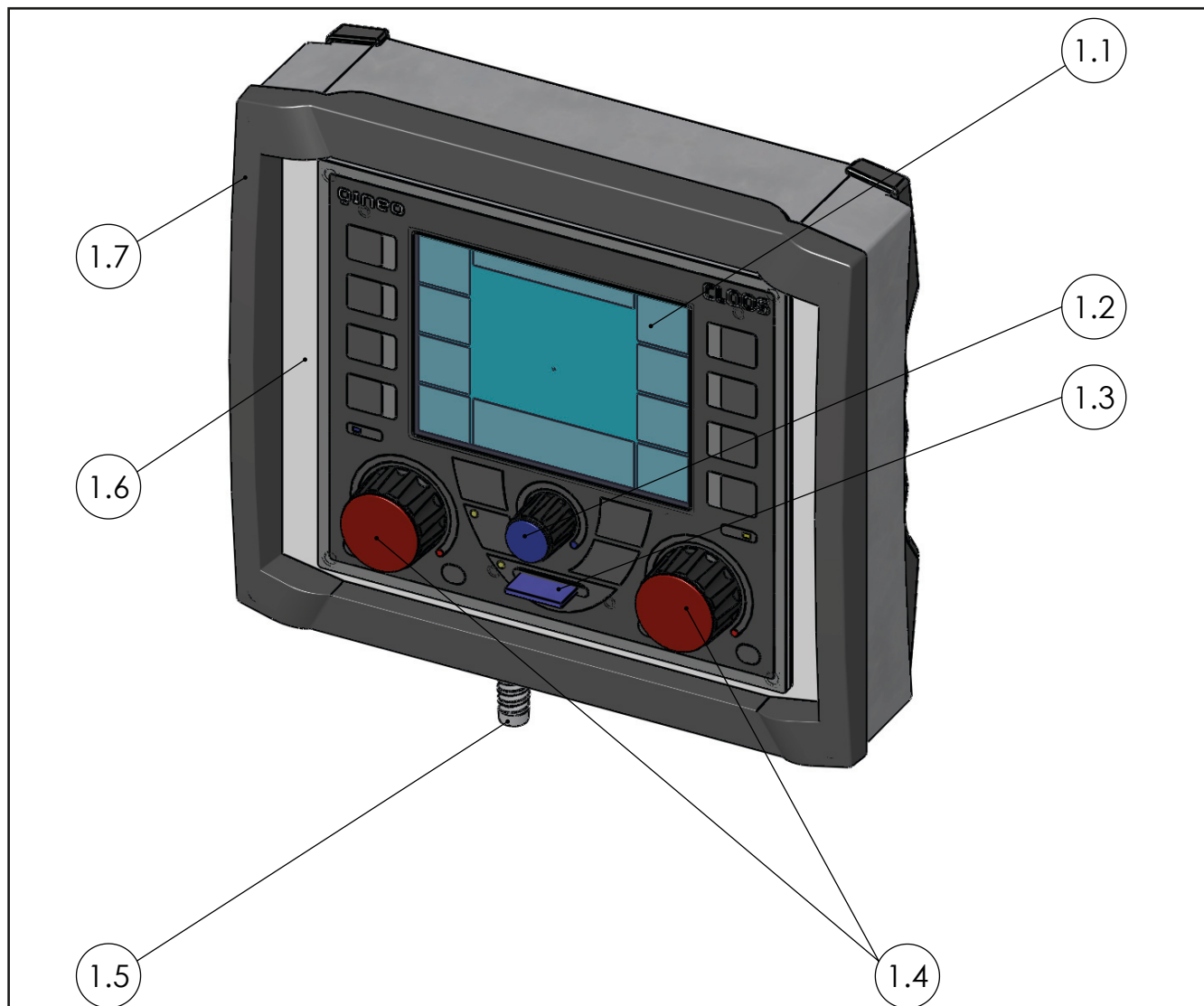


Item	Designation	Option	Application			Cooling		Part number
			PULSE Pro 351	PULSE Pro 451	PULSE Pro 601	Water	Air	
1	Control board seam tracking	NS						0033 05 70 00
2	Control board QINEO PULSE 350/450		x	x	-			0033 10 03 00
	Control board QINEO PULSE 600		-	-	x			0033 10 03 10
	Memory card							0029 21 06 00
3	Control board gas nozzle sensor	GDS						0033 05 92 10
4	QINEO PULSE, control transformer 400V							0027 05 42 00
5	QINEO PULSE, power supply board							0033 25 27 10
6	Power contactor 25A (2x)		x	x	-			0012 02 13 50
7	Power contactor 40A		-	-	x			0012 02 16 00
8	Resistor 2.2 ohms / 100 W (3x) for switch-on current limiting		x	x	-			0030 04 01 95
9	Resistor 39 ohms / 100 W (2x)	GDS						0030 04 40 00
10	PE + N rail							0033 04 84 10
11	Hose connector, brass, G1/4, S8							0032 03 00 97
12	Coolant pump					x	-	0023 03 38 00
13	Hose T connector					x	-	0048 03 15 05
14	Circlip					x	-	0042 02 00 15
15	Ethernet, 5 Port Switch	Q-SD						0831 05 87 60
16	QINEO PULSE 350/450, mains suppression filter		x	x	-			0033 35 23 10
	QINEO PULSE 600, mains suppression filter		-	-	x			0033 35 24 10
17	Heat exchanger		x	x	x	x	-	0054 03 30 00
18	Weld data monitoring complete	Q-SD						0831 05 83 00
	Control board weld data monitoring	Q-SD						0033 05 83 00
	Memory card	Q-SD						0029 21 06 00
A	PU hose, clear, 1m (no illus.)					x	-	0040 01 16 00
	PU hose, black, 1m (no illus.)					x	-	0040 02 01 00
B	Option: Q-VBC CAN cpl. (no illus.)	Q-VBC CAN						0832 05 86 60
	Q-VBC CAN, optical decoupling	Q-VBC CAN						0033 05 91 00
	Q-VBC CAN, distance bolt PC board	Q-VBC CAN						0010 11 02 63
	Q-VBC CAN, machine socket 17+ PE, coding 1	Q-VBC CAN						0011 04 34 10
	Q-VBC CAN, crimp contact BU, 0.35-0.5	Q-VBC CAN						0011 04 32 04

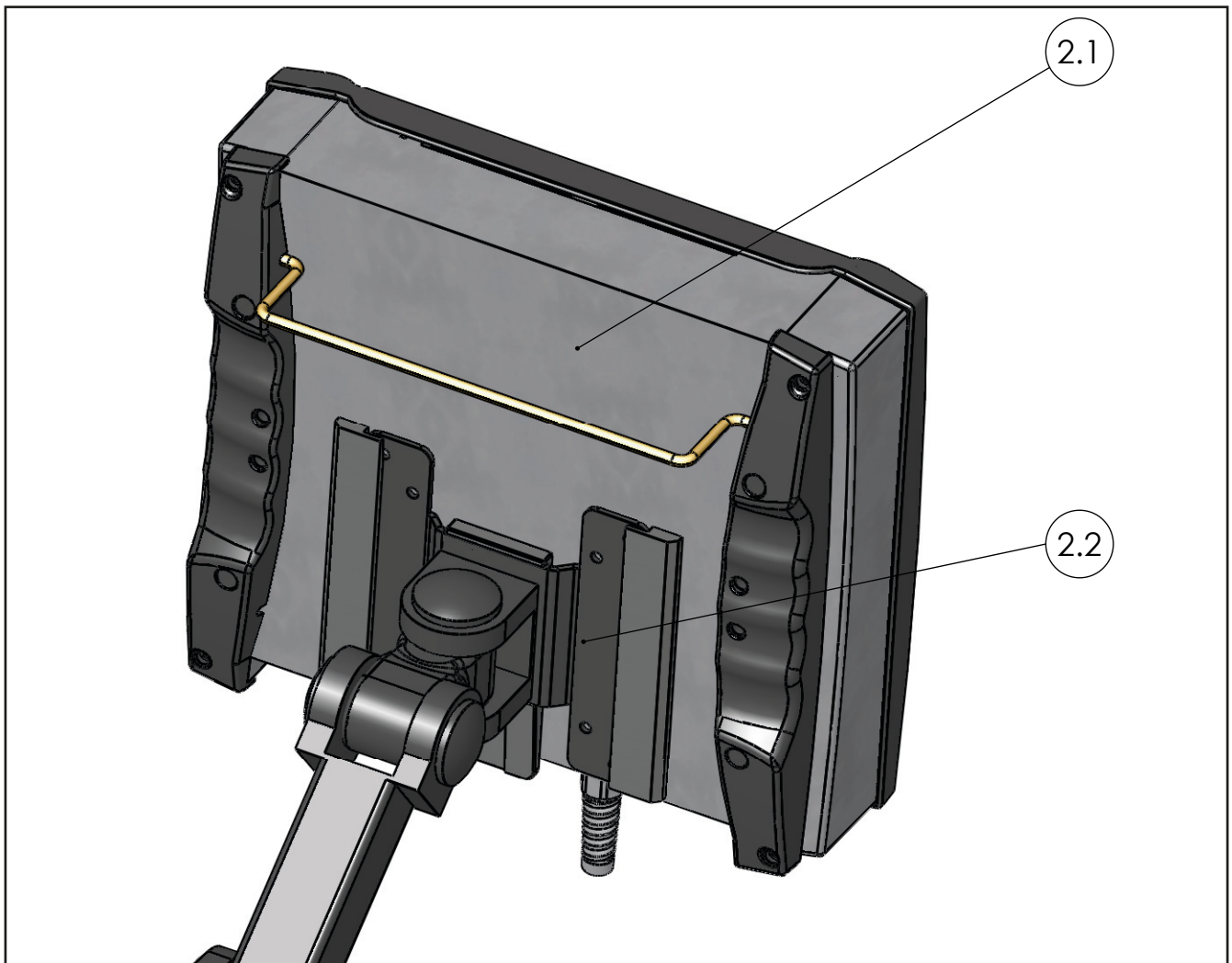


Item	Designation	Option	Application			Cooling		Part number
			PULSE Pro 351	PULSE Pro 451	PULSE Pro 601	Water	Air	
1	Aluminium profile							0830 00 10 71
2	Water tank complete					x	-	0054 10 04 00
3	Welding current choke 350A/450A		x	x	-			0802 88 35 00
	Welding current choke 600A		-	-	x			0831 60 20 01
4	Current sensor 300-450A		x	x	-			0028 09 03 04
	Current sensor 600A		-	-	x			0028 09 03 07
	LEM control cable, 560mm, 3 pole		-	x	-			0038 13 32 00
	LEM control cable, 900mm		x	-	-			0038 13 32 10
	LEM control cable, 560mm, 4 pole		-	-	x			0038 13 32 20
5	Fan standard "water cooled"		x	x	-	x	-	0022 04 16 30
	Fan housing		x	x	x	-	x	0830 00 10 50
	Fan reinforced "water cooled"		-	-	x	x	-	0022 04 35 20
	Fan standard "gas cooled"		x	x	-	-	x	0022 04 16 20
	Fan reinforced "gas cooled"		-	-	x	-	x	0022 04 35 00
6	Main transformer 350A		x	-	-			0831 35 10 01
	Main transformer 450A incl. rectifier		-	x	-			0831 45 10 02
	Main transformer 600A		-	-	x			0831 60 10 01
7	Power unit 350A complete		x	-	-			0055 62 35 00
	Power unit 450A complete		-	x	-			0055 62 40 00
	Power unit 600A complete		-	-	x			0055 62 60 00
	Drive board cascade (fully equipped)		x	-	x			0033 10 04 00
	Drive board cascade (partially equipped)		-	-	x			0033 10 04 10
	Drive board cascade II		-	x	-			0033 10 04 20
8	ELKO 10000uF / 100V							0021 01 12 69
	Rectifier 350A		x	-	-			0055 08 17 00
	Rectifier 450A		-	x	-			0055 61 45 00
	Rectifier 600A		-	-	x			0055 08 18 00
9	Hose swivel connector Ø8 G1/4					x	-	0023 03 28 10
10	Circlip					x	-	0042 02 00 15

RPU "PREMIUM" + "MasterPlus"

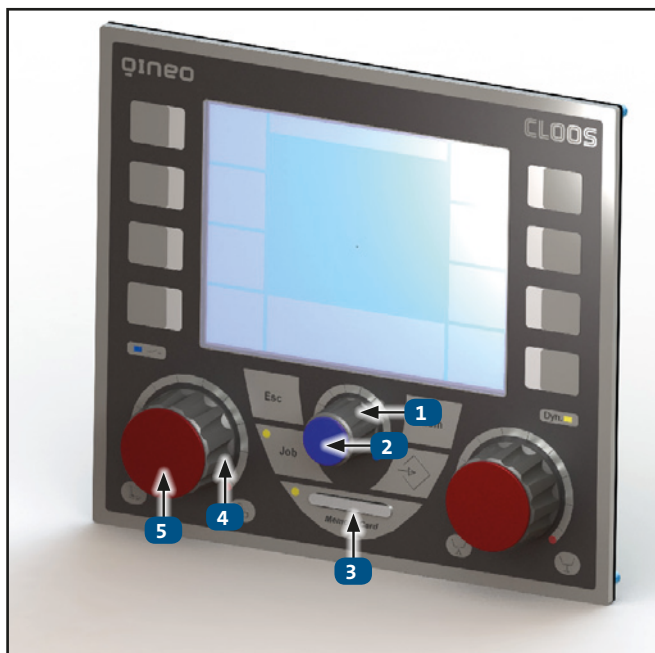


Item	Designation	Application	Connecting cable			Part number
			without	5 m	10 m	
1.1	QINEO, PREMIUM operating module complete	Qineo	831 10 02 00	831 10 02 05	831 10 02 10	
	QINEO Pro, PREMIUM operating module cpl.	Qineo Pro	-	891 10 03 05	891 10 03 10	
	QINEO NexT, PREMIUM operating module cpl.	Qineo NexT	-	891 10 02 05	891 10 02 10	
	QINEO, operating module MasterPlus cpl.	Qineo	831 10 04 00	831 10 04 05	831 10 04 10	
	QINEO Pro, MasterPlus operating module cpl.	Qineo Pro	-	891 10 05 05	891 10 05 10	
	QINEO NexT, MasterPlus operating module cpl.	Qineo NexT	-	891 10 04 05	891 10 04 10	
1.2						
1.3	see "Operating modules" on page 8					
1.4						
1.5	Connecting cable 5m ready for use					890 10 05 05
	Connecting cable 10m ready for use					890 10 05 10
	no illus. sleeve housing HAN3A/7D	Qineo Pro/NexT				010 09 25 11
	no illus. 12 pole Pin insert	Qineo Pro/NexT				010 09 25 14
1.6	QINEO RPU, adapter plate control panel					831 10 00 01
1.7	RPU, housing frame					033 18 71 16



Item	Designation	Option	Part number
2.1	RPU, housing base cpl. varnished RAL 7024		033 18 71 14
2.2a	Q-RPU, module pivot arm cpl.	Pivot arm	830 10 10 00
	Q-RPU, pivot arm	Pivot arm	830 10 10 01
	Q-RPU, pivot arm - bearing	Pivot arm	830 10 10 03
	Q-RPU, pivot arm lamellar plugs	Pivot arm	830 10 10 04
	Q-RPU, pivot arm - guidance	Pivot arm	830 10 10 05
	Q-RPU, pivot arm - locking	Pivot arm	830 10 10 06
	Pressure spring D-115J	Pivot arm	000 02 04 23
2.2b	Q-RPU, module wall bracket cpl.	Support	830 10 10 10
	Q-RPU, pivot arm - bearing	Pivot arm	830 10 10 03
	Q-RPU, pivot arm lamellar plugs	Pivot arm	830 10 10 04
	Q-RPU, pivot arm - guidance	Pivot arm	830 10 10 05
	Q-RPU, pivot arm - locking	Pivot arm	830 10 10 06
	Pressure spring D-115J	Pivot arm	000 02 04 23

Operating modules



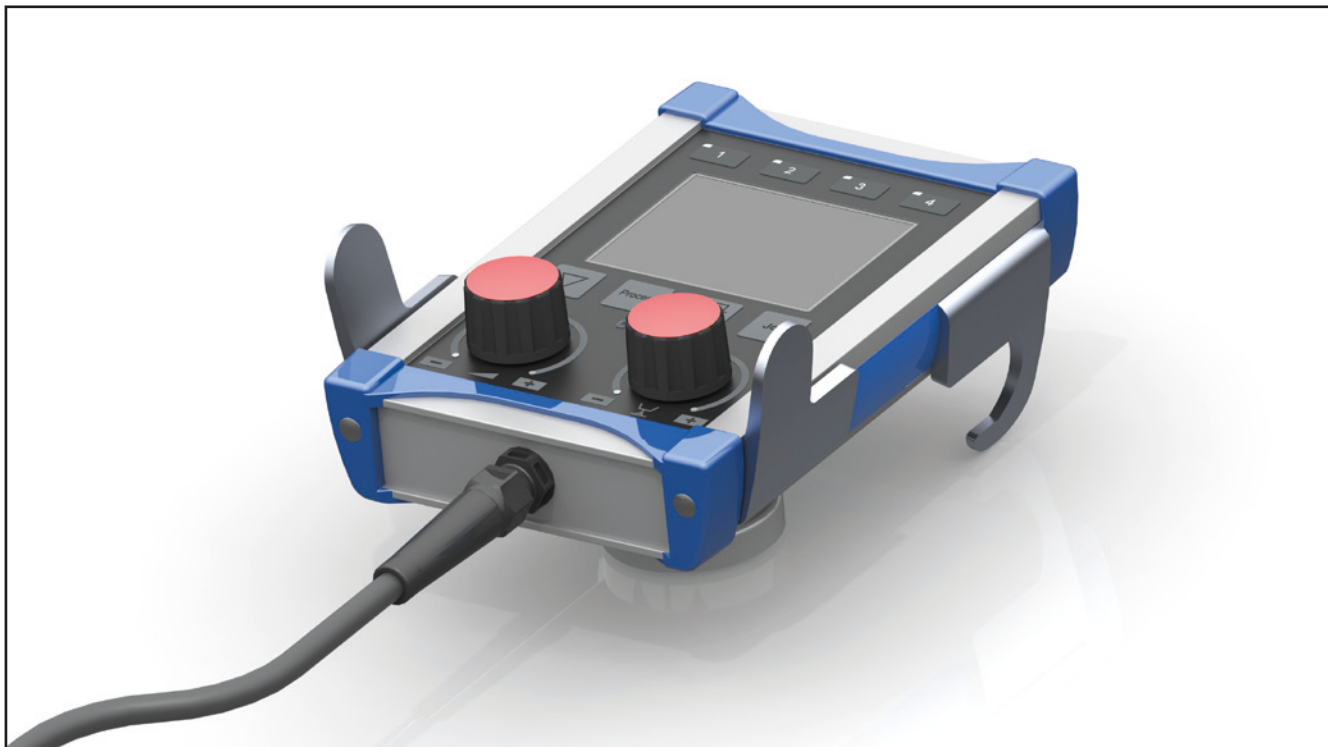
Premium - 0831004120



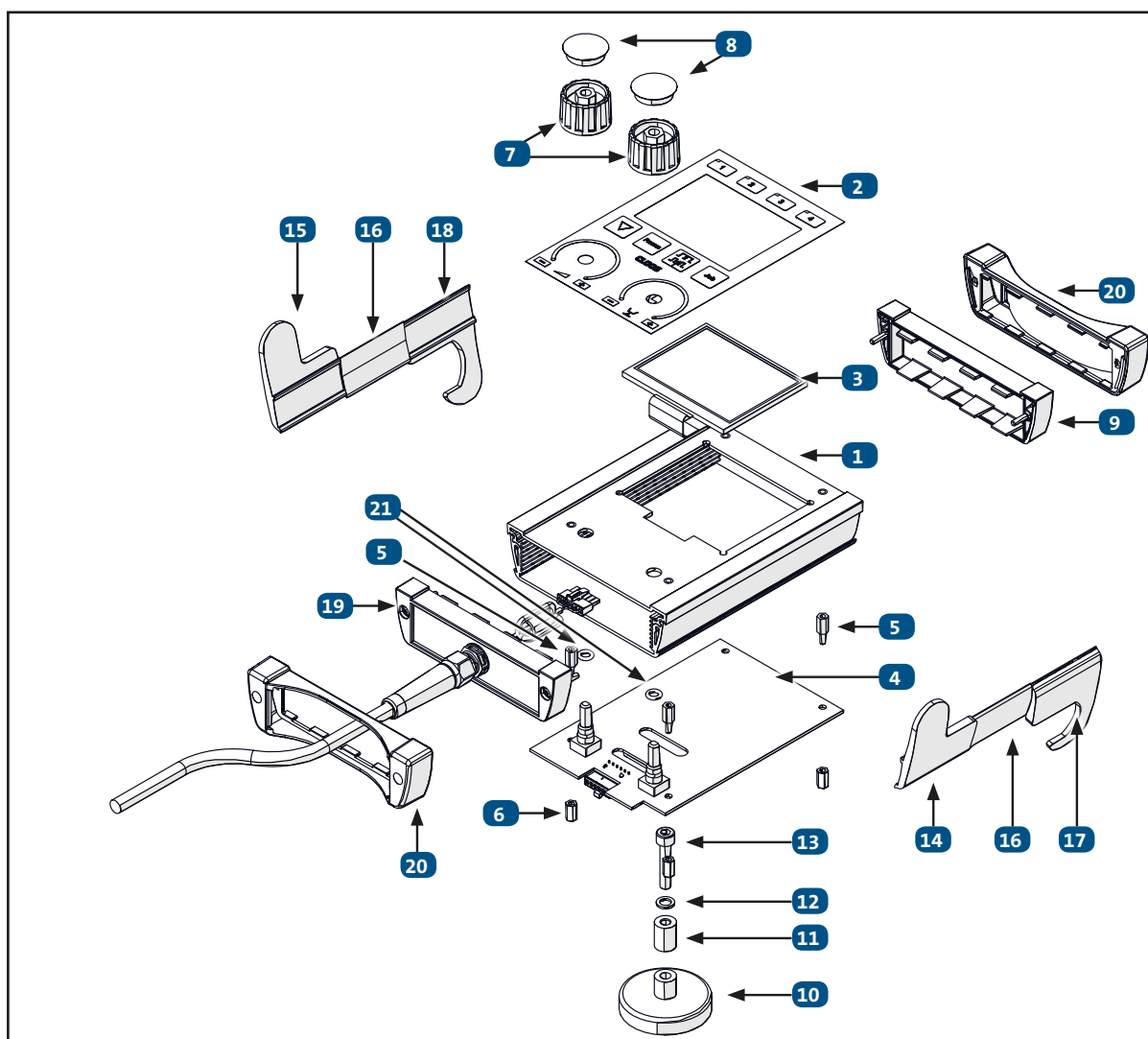
MasterPlus - 0831004130

Item	Designation	Application		Part number
		Premium	MasterPlus	
1	Rotary knob 21mm, for 6mm shaft	x	-	030 03 00 23
2	Cover for knob 21mm, bomb-shaped, blue	x	-	030 03 00 24
3	SD memory card	x	-	029 21 06 00
3	QN OP Premium slot including PCB SD card	x	-	831.00 41 25
4	Rotary knob 36mm, for 6mm shaft	x	x	030 03 00 21
5	Cover for rotary knob 36mm, bomb-shaped, red	x	x	030 03 00 22
	no illus. PAK kit including adapter 2-pole on 5-pole	x	x	033 21 64 10
	no illus. Option: QINEO, protective shield operating module	x	x	830 00 40 10

Remote control "RC Plus"



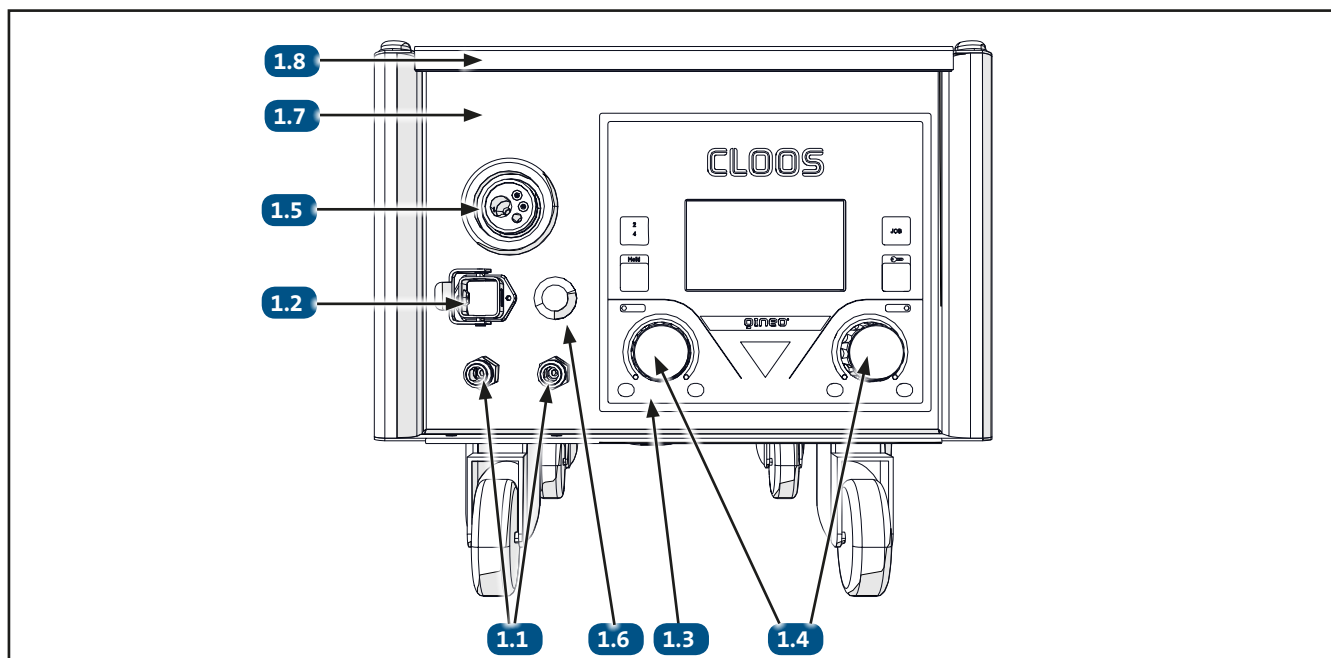
Designation	Application			Part number
	Qineo	Qineo Pro	Qineo Next	
QN RC Plus, 5m	x	-	-	0831 02 00 05
QN RC Plus, 10m	x	-	-	0831 02 00 10
QN RC Plus, 5m with holding magnet	x	-	-	0831 02 10 05
QN RC Plus, 10m with holding magnet	x	-	-	0831 02 10 10
QN Pro RC Plus, 5m	-	x	-	0891 02 50 05
QN Pro RC Plus, 10m	-	x	-	0891 02 50 10
QN Pro RC Plus, 5m with holding magnet	-	x	-	0891 02 60 05
QN Pro RC Plus, 10m with holding magnet	-	x	-	0891 02 60 10
QN Next RC Plus, 5m	-	-	x	0891 02 00 05
QN Next RC Plus, 10m	-	-	x	0891 02 00 10
QN Next RC Plus, 5m with holding magnet	-	-	x	0891 02 10 05
QN Next RC Plus, 10m with holding magnet	-	-	x	0891 02 10 10



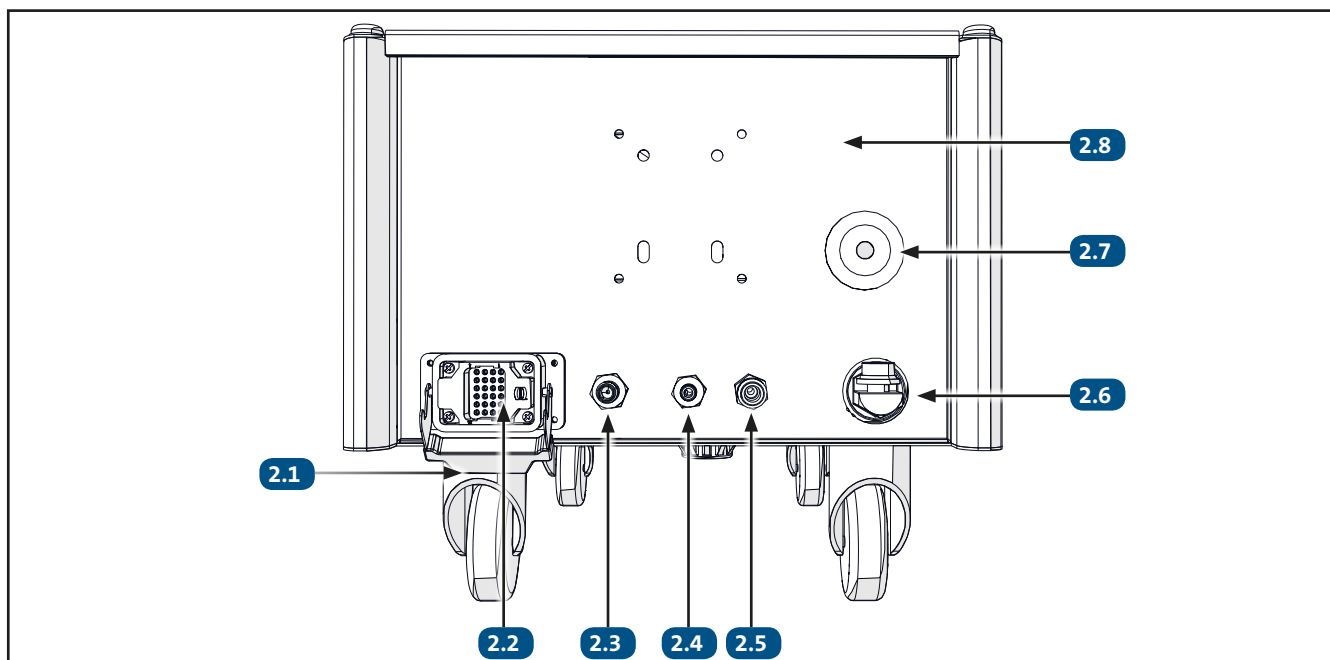
Item	Quantity	Description	Part number
1*	1	QN RC Plus housing shell with front cap M	on request
2	1	QN RC Plus front cover	on request
3	1	TFT Display 3.5" - RC Plus	on request
4	1	QN RC Plus controller	0033 05 98 00
5	4	Spacer inside/outside M3; 10mm	0049 01 49 26
6	4	Spacer inside/outside M3; 10mm	0049 01 49 27
7	2	Rotary knob 28mm, matt black	0030 03 00 36
8	2	Cap - 28mm, red, bomb-shaped	0030 03 00 37
9	1	QN RC Plus cap	0831 02 01 11
10*	1	Pot magnet	0097 03 08 22
11*	1	QN RC Plus distance sleeve magnet	0831 02 01 09
12*	1	Lock washer VS6	0103 76 06 00
13*	1	Cylinder screw DIN912-M6x30-8.8	0102 20 60 30
14	1	QN RC Plus guard bracket right	0831 02 01 02
15	1	QN RC Plus guard bracket left	0831 02 01 03
16	2	QN RC Plus decorative strip blue	0831 02 01 04
17	1	QN RC Plus holder right	0831 02 01 06
18	1	QN RC Plus holder left	0831 02 01 07
19	1	QN RC Plus connection kit cpl. 5m	0831 02 01 05
20	2	QN RC Plus collision protection cpl.	0831 02 01 08
21	2	O-ring 6 x 2	0110 06 02 00

* For the variant without holding magnet, the positions 10,11,12,13 are inapplicable and the component on pos.1 is replaced by 0831 02 01 00. M = Magnet

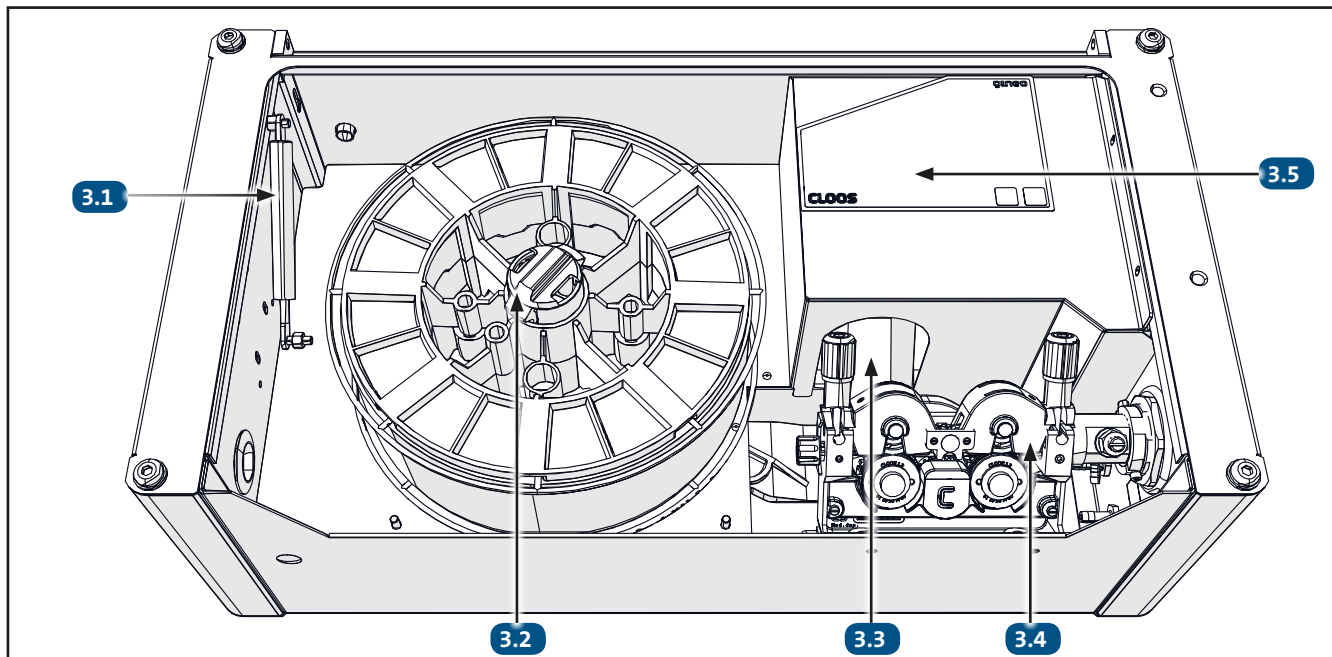
QWD "M4" wire drive unit



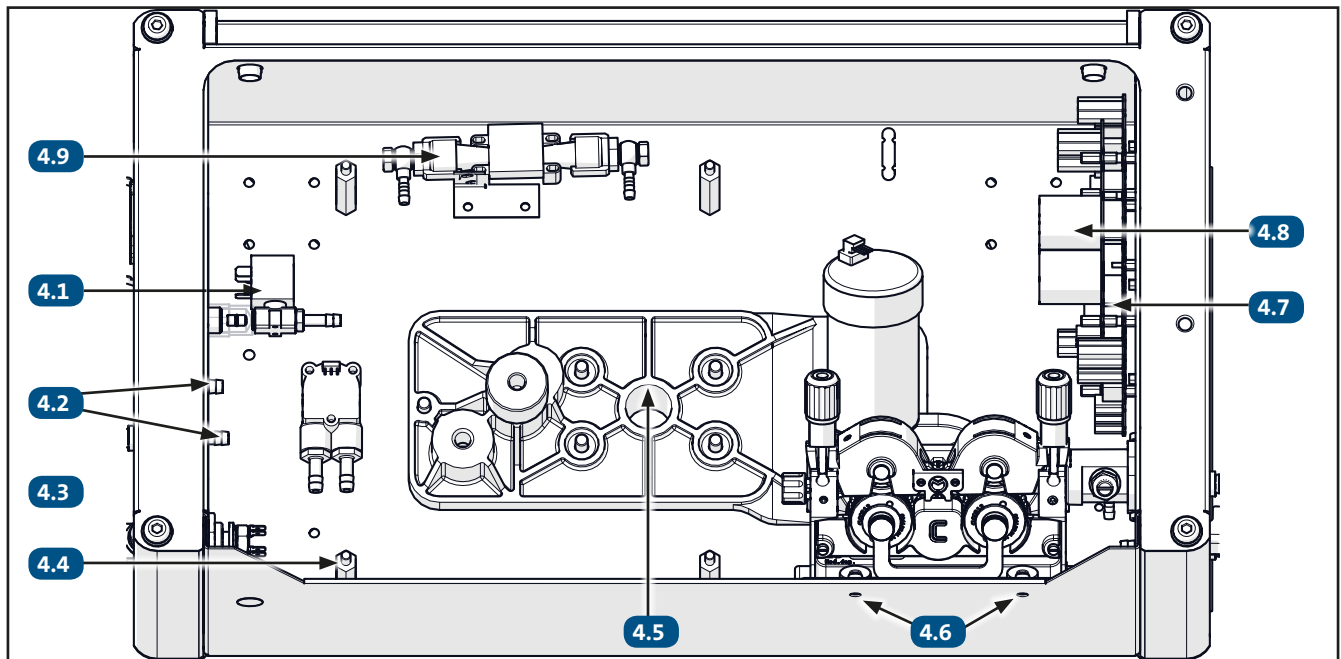
Item	Designation	Option	Application			Cooling		Part number
			SZ	EURO	DINSE	Water	Air	
1.1	Coupling NW5, female thread R1/4 - red					x	-	032 03 01 40
	Coupling NW5, female thread R1/4 - blue					x	-	032 03 01 41
	Hose connector, brass, G1/4, S8					x	-	032 03 00 97
	Sealing ring OL-1/4					x	-	032 03 00 29
1.2	QINEO NexT, kit - RC Master	RC Master						890 10 20 20
	QINEO NexT, kit - PushPull including RC Eco	PushPull						891 50 35 08
1.3a	QINEO, Master Plus operating module cpl.	MASTER Plus						831 00 41 30
	QINEO, membrane Master Plus operating panel	MASTER Plus						831 00 40 31
	QINEO, carrier board Master Plus operating module	MASTER Plus						033 05 93 00
1.3b	QINEO, PREMIUM operating module cpl. (no. illus.)	PREMIUM						831 00 41 20
	QINEO, membrane PREMIUM operating module	PREMIUM						831 00 40 21
	PREMIUM, operating panel board	PREMIUM						033 05 86 10
	QINEO PREMIUM, slot including board	PREMIUM						831 00 41 25
	SD Card slot silicone protector	PREMIUM						831 00 41 24
	SD memory card	PREMIUM						029 21 06 00
1.3c	QINEO, dummy panel operating module	RPU						831 00 42 01
1.4	Rotary knob 36mm, for 6mm shaft							030 03 00 21
	Cover 36mm, bomb-shaped, red							030 03 00 22
	Rotary knob 21mm, for 6mm shaft (no illus.)	PREMIUM						030 03 00 23
	Cover 21mm, bomb-shaped, blue	PREMIUM						030 03 00 24
1.5	Central connection - SZ	SZ	x	-	-			043 62 00 40
	Central connection - EURO	EURO	-	x	-			043 62 00 90
	Central connection - DINSE	DINSE	-	-	x			043 62 00 50
1.6	Connector socket - SZ	SZ	x	-	-			010 03 03 00
1.7	Front wall							833 58 11 23
1.8	Lid							833 58 10 02



Item	Designation	Option	Application			Cooling		Part number
			SZ	EURO	DINSE	Water	Air	
2.1	Guide roller galvanised ø 75mm							049 06 00 18
2.2	Mounted housing HAN 6 flat for socket							010 11 00 71
	Pin 24 pole HAN 24 DD							010 09 13 16
	Crimp contact pin 0.75-1.0mm² HAN D							010 09 18 03
	Crimp contact pin 0.5mm² HAN D							010 09 18 04
2.3	Crimp contact pin 0.14-0.37mm² HAN D							010 09 18 05
	Plug nipple for gas valve							032 03 00 39
2.4	Sealing ring OL-3/8							032 03 00 28
	Plug nipple G1/4 inside NW 5					x	-	049 01 03 54
2.5	Sealing ring OL-1/4					x	-	032 03 00 29
	Coupling NW5, female thread R1/4 - red					x	-	032 03 01 40
2.6	Sealing ring OL-1/4					x	-	032 03 00 29
	Power connection M12x1.5 cpl.							073 03 27 85
2.7	Rubber bushing OD 45 mm							035 01 00 13
2.8	Rear panel							833 58 11 24

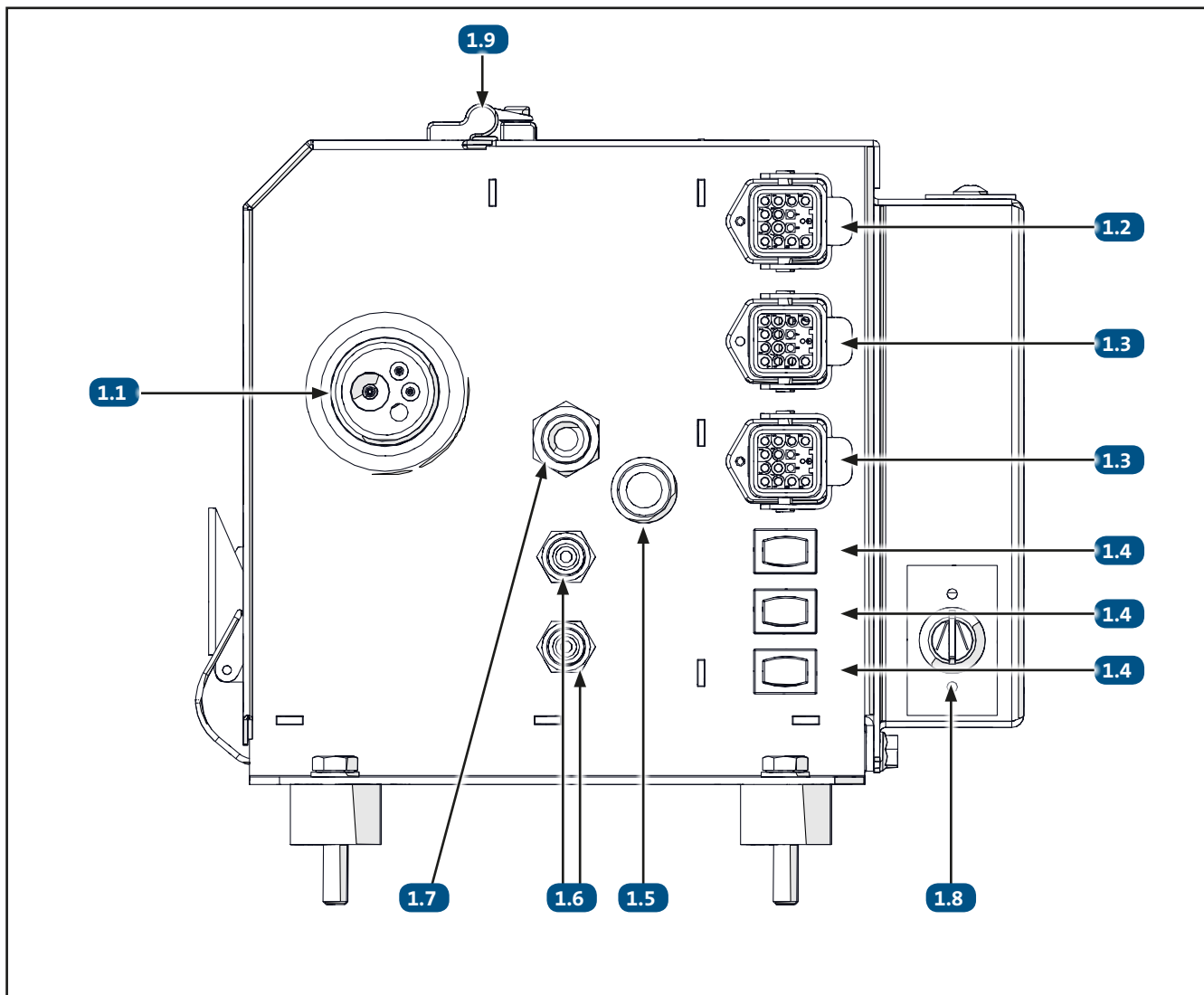


Item	Designation	Option	Application			Cooling		Part number
			SZ	EURO	DINSE	Water	Air	
3.1	Gas pressure spring							644 01 00 21
	Retaining bolt							645 26 20 13
3.2	Coil bracket cpl.							047 12 00 00
3.3	Wire drive motor KSV 4030 + encoder							024 14 33 00
3.4	QN-WF-22 including motor							043 59 00 10
	Spare parts list of the wire feed unit in a separate chapter							
3.5	QINEO, board characteristic curve preselection / left							033 25 26 20
	QINEO, membrane characteristic curve preselection / left							830 00 65 22
	Flat cable, 16 pole / 400mm							038 13 49 20

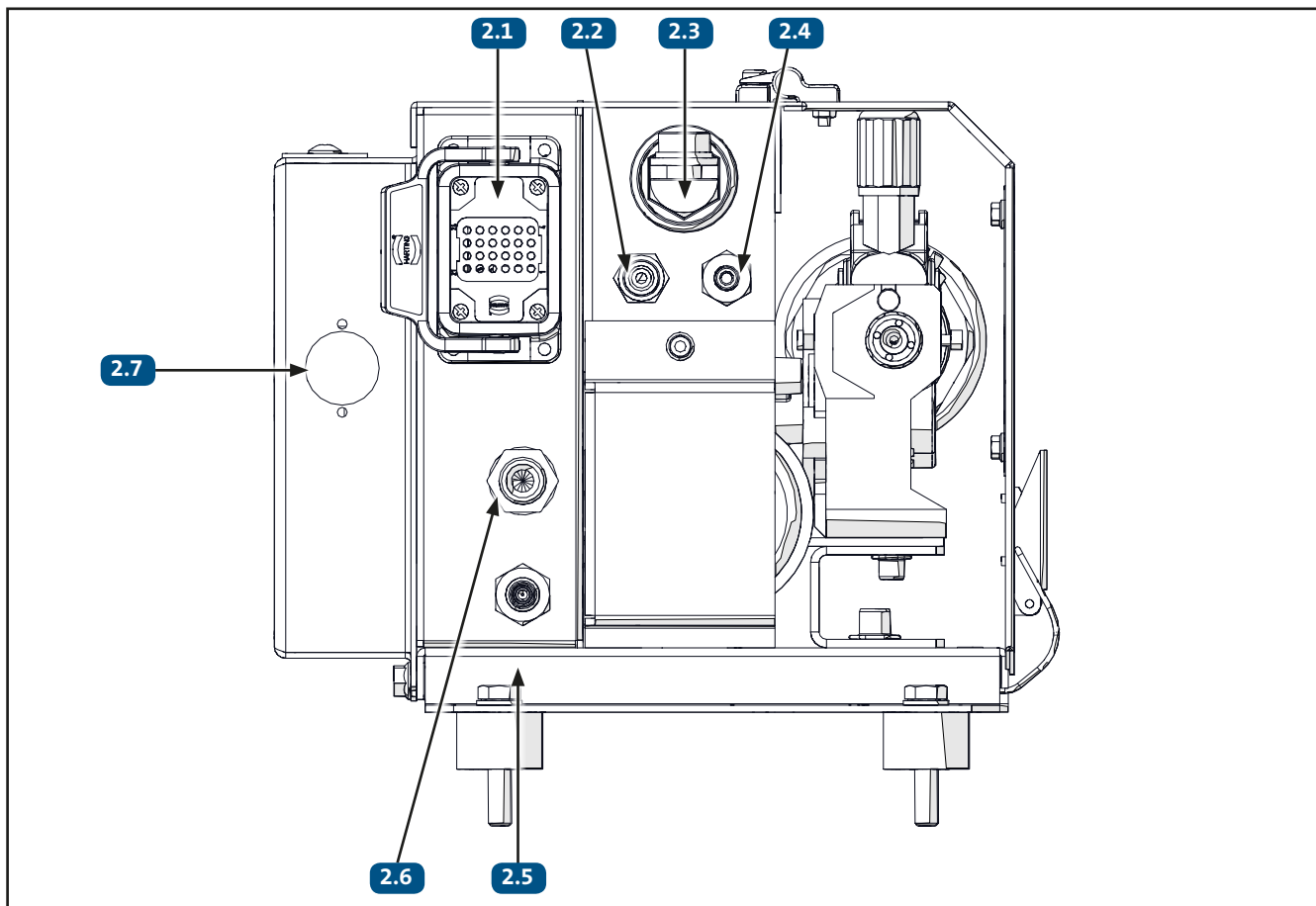


Item	Designation	Option	Application			Cooling		Part number
			SZ	EURO	DINSE	Water	Air	
4.1	Gas valve cpl.							048 05 17 30
	Threaded connection, straight, Ø8 x a1/4"							032 07 20 02
	Throttle nipple G3/8, G1/4 (gas retaining unit)							048 05 15 25
	Throttle insert 0.6mm							032 03 00 79
	Hose connector, brass, G1/4, S6							032 03 00 98
	Single ear clamp 014.5-706R							042 02 00 12
	Ready-made gas hose							830 53 60 62
4.2	Screw-on attachment, straight, Ø10 x a1/4"					x	-	032 07 20 10
	Hose connector, brass, G1/4, S8					x	-	032 03 00 97
	Sealing ring 0-1/4"					x	-	032 03 00 29
	Single ear clamp 13.8-706R					x	-	042 02 00 15
	Hose cutting QWD M (water) single ear					x	-	830 53 30 52
4.3	Optional coolant flow meter cpl.	DFM				x	-	831 00 20 00
	Optional flow meter	DFM				x	-	016 07 08 00
4.4	Distance bolt							049 01 02 86
4.5	Base plate for coil bracket							645 25 89 11
4.6	Hexagon socket screw M6x12 self-locking							104 16 60 12
4.7	QINEO PULSE WD, control II							033 33 44 05
4.8	QINEO PULSE WD, output stage II							033 33 45 05
4.9	Installation kit airflow sensor for weld data monitoring	SD						831 53 32 30

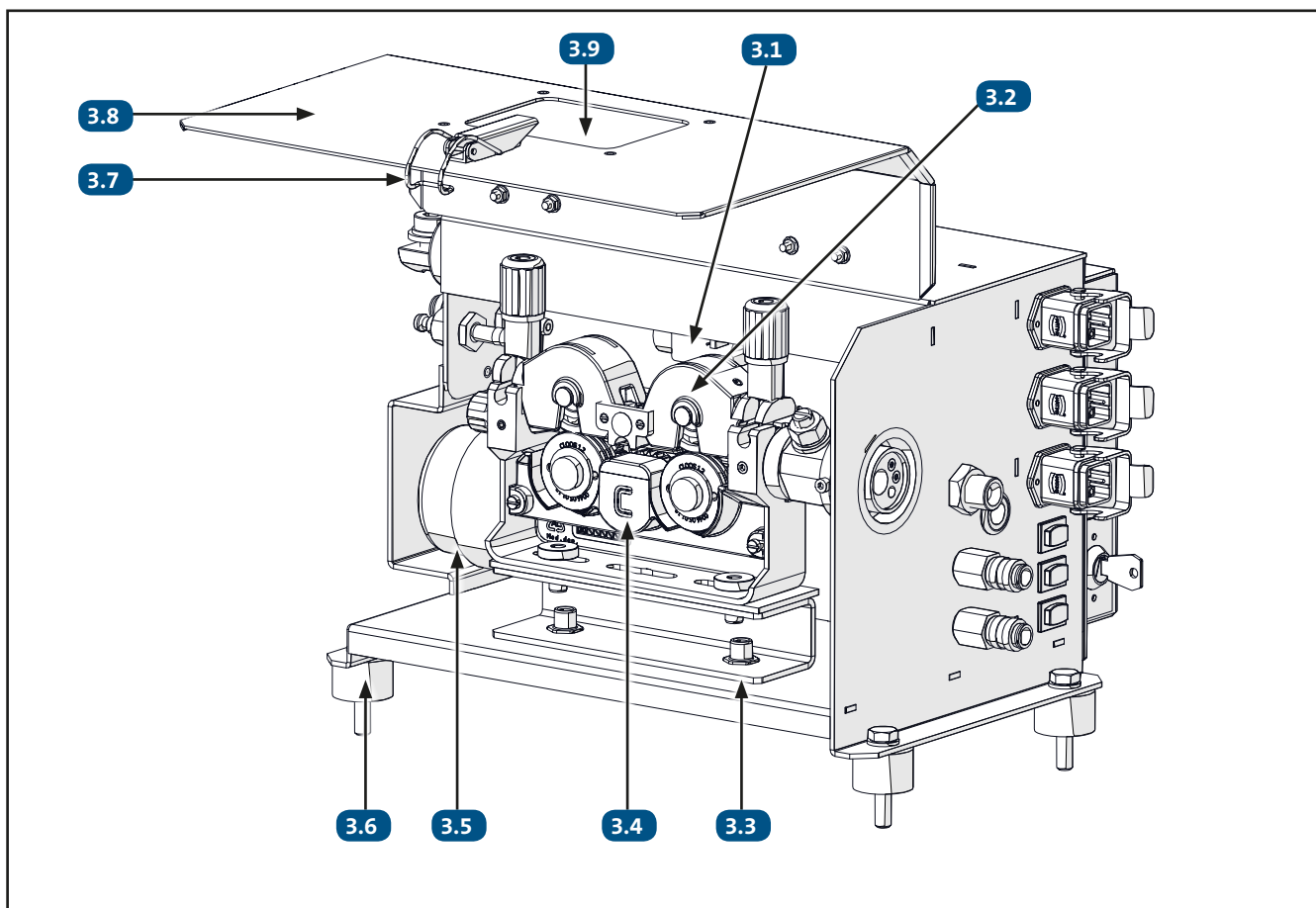
QWD "A4" wire drive unit



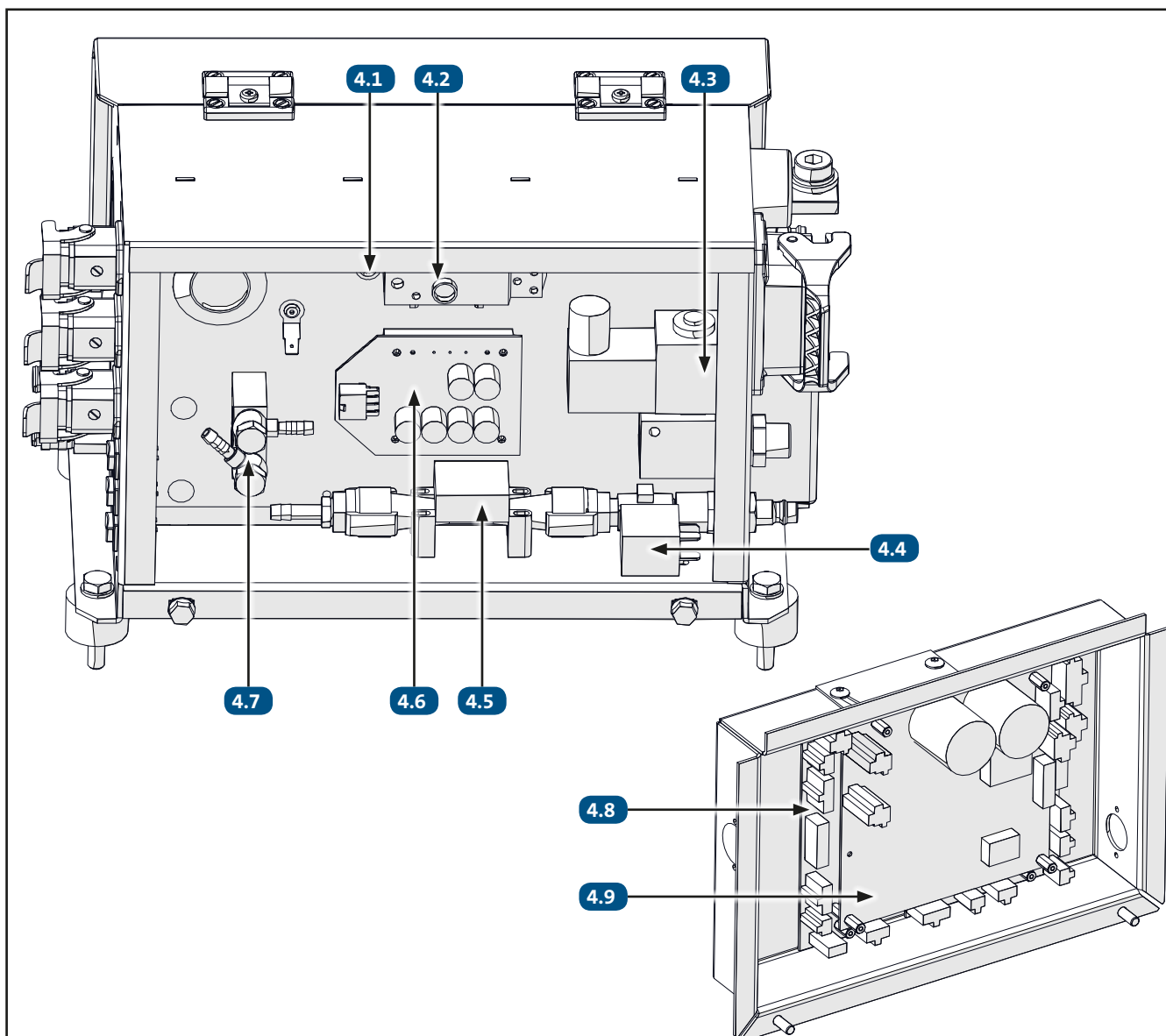
Item	Designation	Option	Application			Cooling		Part number
			SZ	EURO	DINSE	Water	Air	
1.1	Central connection - SZ	SZ	x	-	-			043 62 00 40
	Central connection - EURO	EURO	-	x	-			043 62 00 10
	Central connection - DINSE	DINSE	-	-	x			043 62 00 50
1.2	Plastic housing							010 09 25 04
	7 pole socket insert							010 09 25 02
1.3	Aluminium housing							010 09 25 10
	12 pole socket insert							010 09 25 15
1.4	Button							008 01 00 32
1.5	Connector socket - SZ	SZ	x	-	-			010 03 03 00
1.6	Coupling NW5, female thread R1/4 - red					x	-	032 03 01 40
	Coupling NW5, female thread R1/4 - blue					x	-	032 03 01 41
1.7	Connection nipple "blow out"		-	x	x			048 01 00 16
	Lock washer "blow-out"		-	x	x			103 76 16 00
	Nut 3/9", flat "blow-out"		-	x	x			060 02 00 01
1.8	Key switch	Key switch						008 02 50 12
1.9	Hinge							097 03 05 11



Item	Designation	Option	Application			Cooling		Part number
			SZ	EURO	DINSE	Water	Air	
2.1	Aluminium housing							010 11 00 71
	24 pole pin insert							010 09 13 16
2.2	Coupling NW5, female thread R1/4 - red					x	-	032 03 01 40
	Hose connector, brass, G1/4, S8					x	-	032 03 00 97
	Single ear clamp 13.8-706R					x	-	042 02 00 15
	PVC hose 8.2 x 2.25 mm black					x	-	040 02 01 00
2.3	Power connection M12x1.5 cpl.							073 03 27 85
2.4	Plug nipple G1/4 inside NW 5					x	-	049 01 03 54
	Hose connector, brass, G1/4, S8					x	-	032 03 00 97
	Single ear clamp 13.8-706R					x	-	042 02 00 15
	PVC hose 8.2 x 2.25 mm black					x	-	040 02 01 00
2.5	Plug nipple "gas"	without SD						032 03 00 39
	Plug nipple "gas" (0.85mm)	SD						032 03 00 49
2.6	Double nipple 3/8	Blow through						048 01 00 07
2.7	Opt. WEC (Wire-End-Control) cpl.	WEC						831 80 30 30
	Machine socket 6 pole + PE	WEC						010 07 06 00
	Machine socket 6 pole + PE	WEC						010 07 07 00
	Opt. WEC (Wire-End-Control in connection with additional drive) cpl.	WEC + additional drive						831 80 30 40
	Machine socket 6 pole + PE	WEC + additional drive						010 07 06 00
	Machine socket 6 pole + PE	WEC + additional drive						010 07 07 00

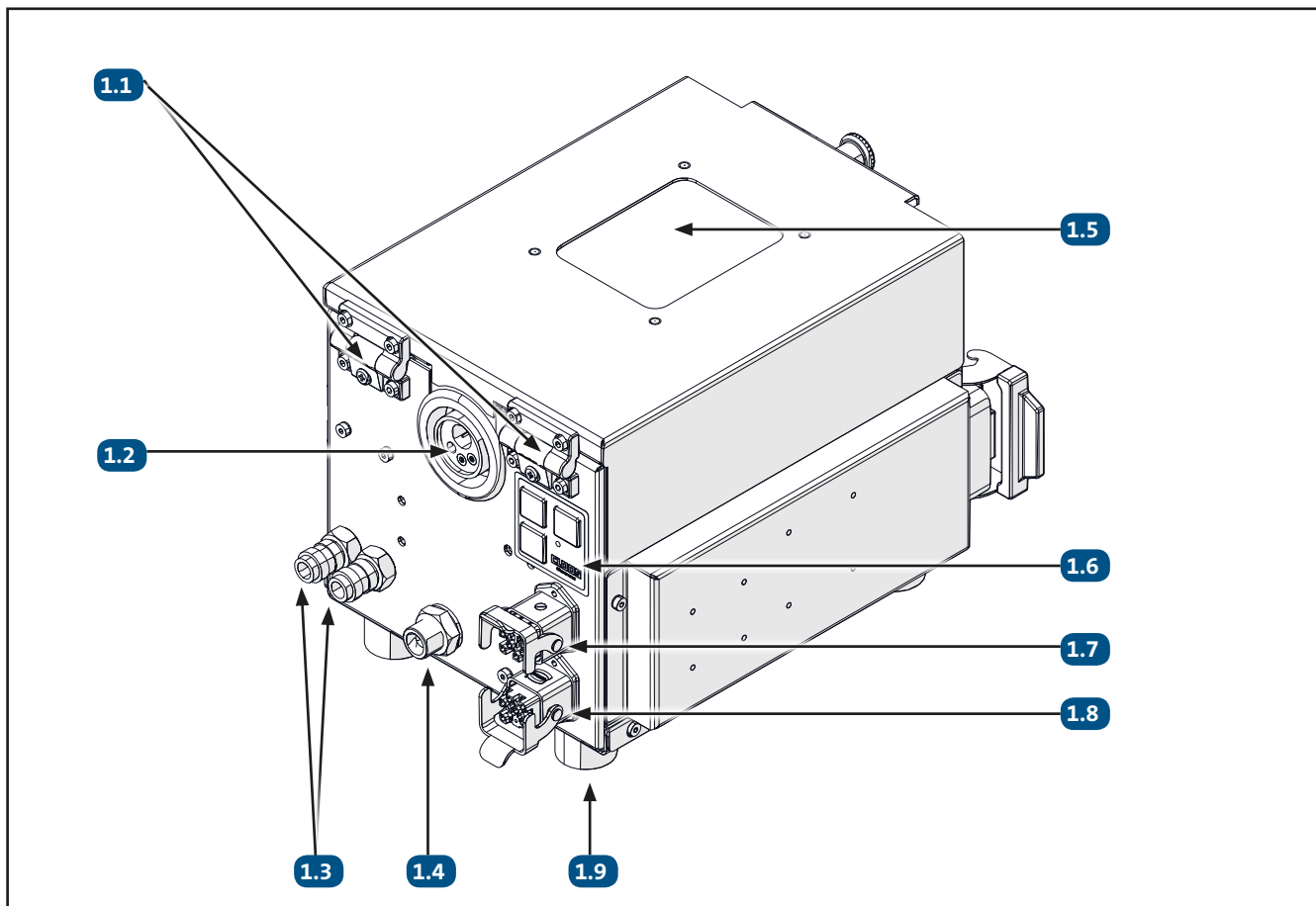


Item	Designation	Option	Application			Cooling		Part number
			SZ	EURO	DINSE	Water	Air	
3.1	Opt. Flow meter cpl.	DFM				x	-	831 00 20 10
	Flow meter	DFM				x	-	016 07 08 00
	Angular threaded connection	DFM				x	-	032 07 20 07
3.2	Pressure roller clip right incl. sensor	SD						043 59 10 31
3.3	Attachment wire feed unit							831 80 10 20
3.4	QN-WF-22-HD including motor							043 59 20 10
3.5	QN-WD-A wire drive motor							024 14 36 00
3.6	Rubber-metal buffer							054 12 00 06
3.7	Toggle-type fastener							049 05 20 00
3.8	Cover plate							831 85 10 51
3.9	Inspection glass							832 80 10 05

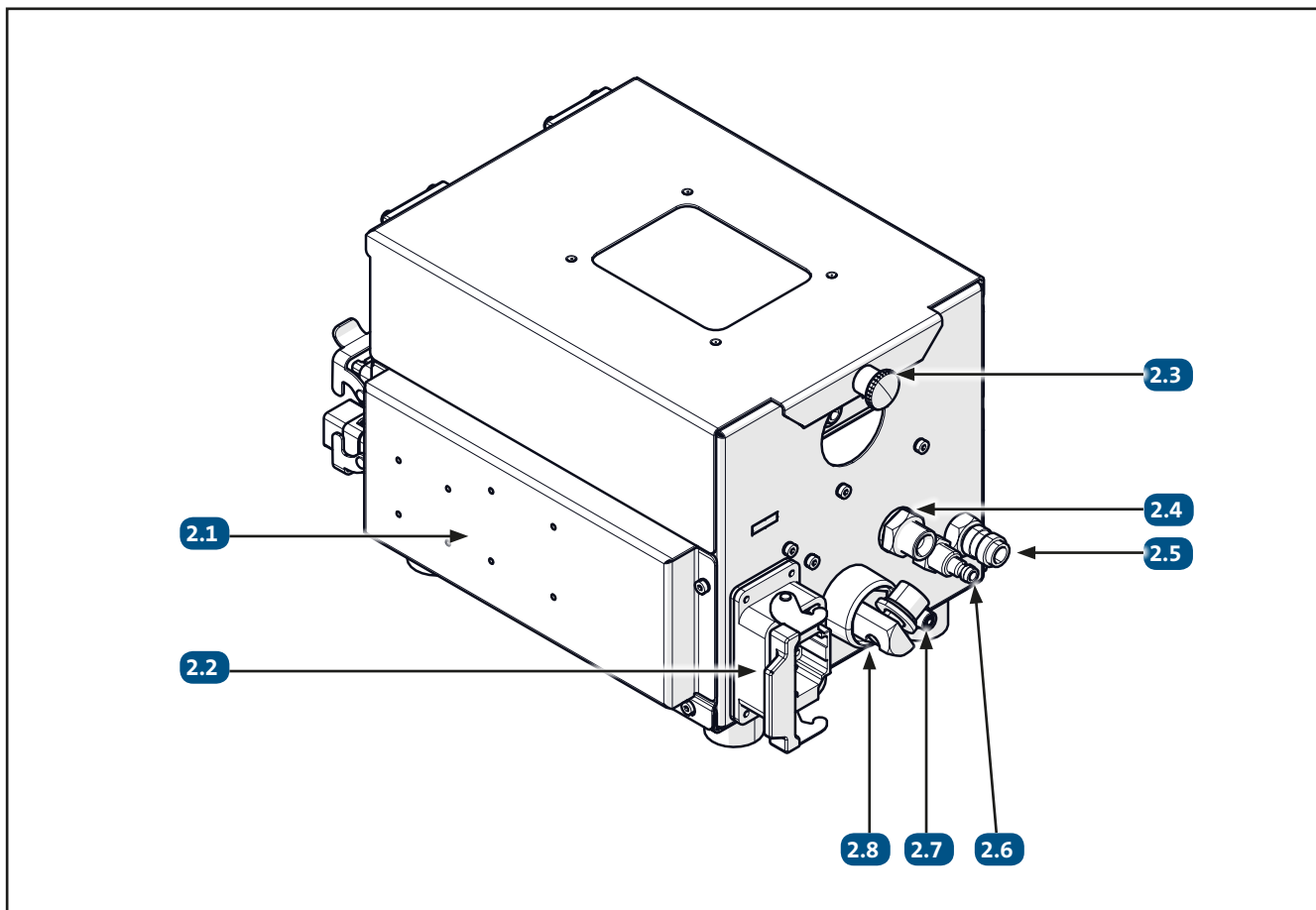


Item	Designation	Option	Application			Cooling		Part number
			SZ	EURO	DINSE	Water	Air	
4.1	3 pole flange socket for weld data monitoring	SD						010 05 34 00
4.2	Gas pressure controller 2...5 bar	without SD						016 07 06 00
4.3	2/2-way solenoid valve							032 02 47 00
4.4	Gas valve cpl.							048 05 17 30
	Throttle nipple connection gas-yes							048 05 19 02
	Straight screwing M5 D=4							032 06 00 49
	Airflow sensor	SD						016 07 07 10
4.5	Double nipple	SD						032 03 00 55
	Sealing ring OL-1/8	SD						032 03 00 30
4.6	DC-DC converter							033 33 49 00
	OR valve, gas		x	-	-			032 02 48 00
4.7	Piece of ring hose G1/8 Ø6		x	-	-			032 07 04 10
	Hollow screw DIN7643 G1/8		x	-	-			032 07 04 11
4.8	Board control II							033 33 44 00
4.9	Board output stage II							033 33 45 00

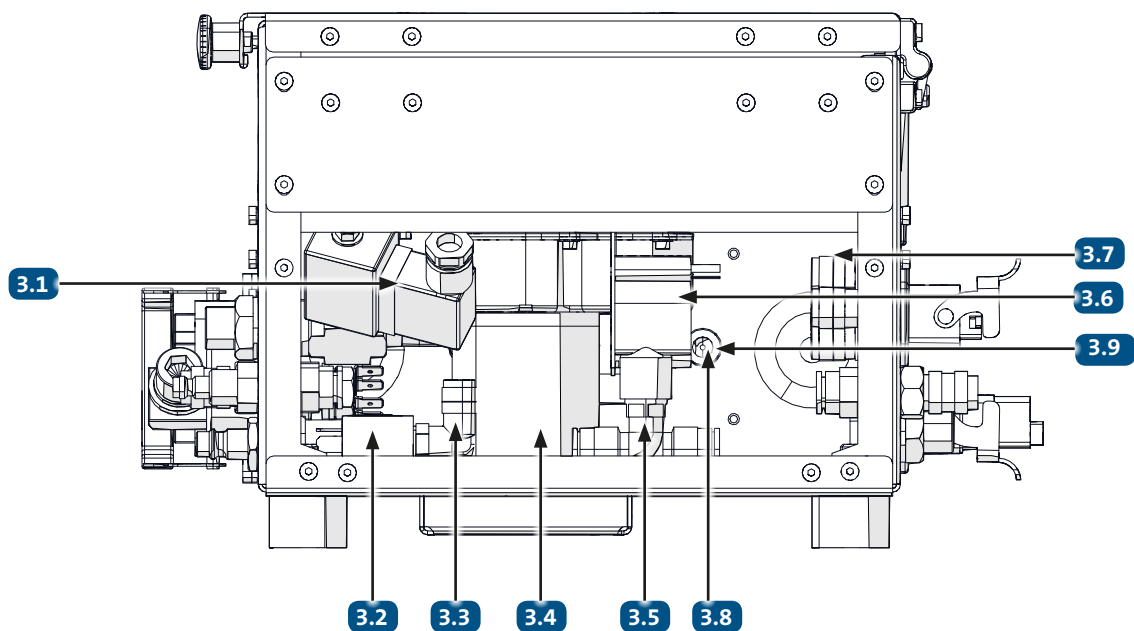
QWD "AR" wire drive unit



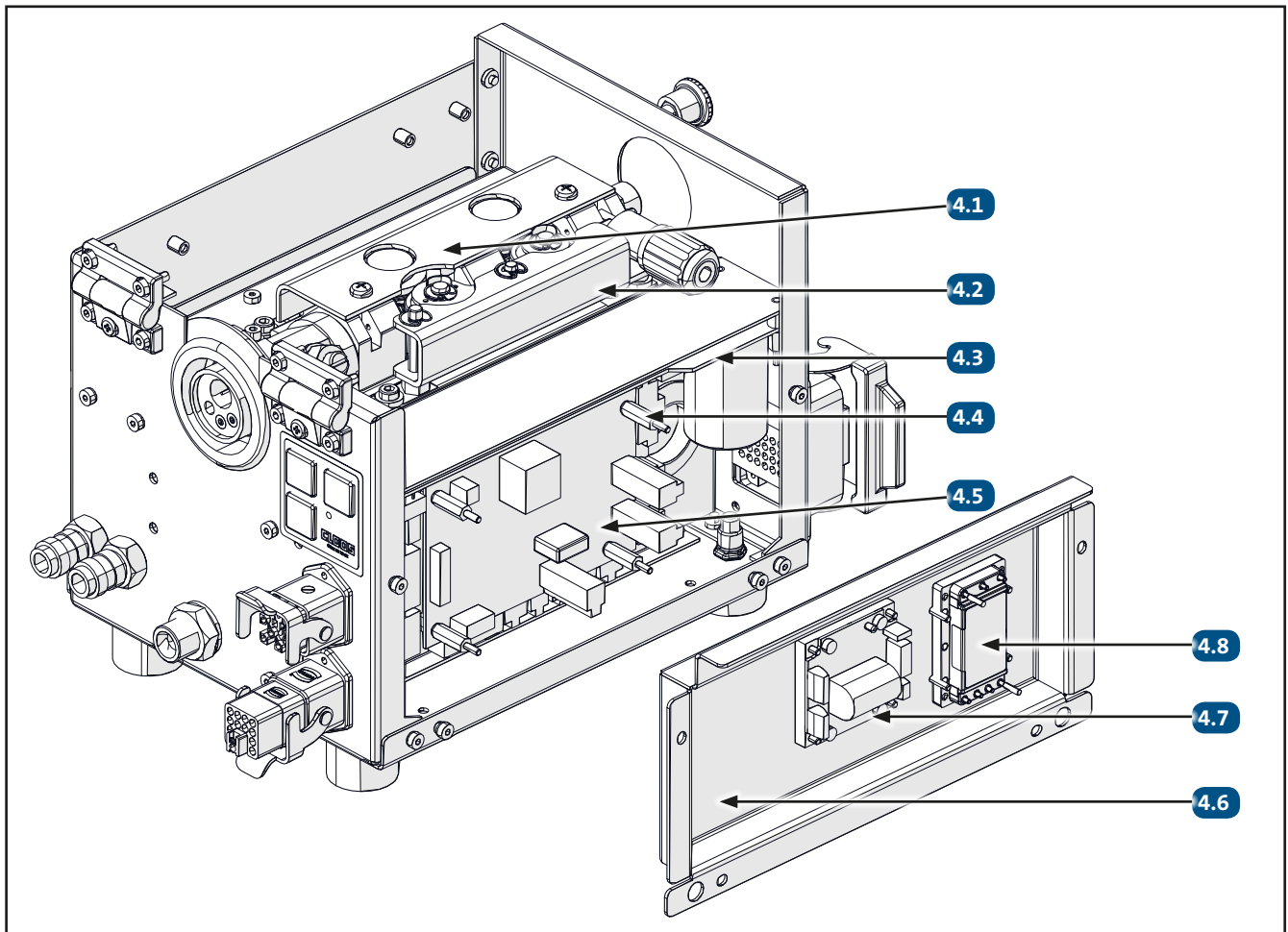
Item	Designation	Option	Application		Cooling		Part number
			SZ	EURO	Water	Air	
1.1	Hinge for cover		X	X			097 03 05 11
1.2	Central connection SZ cpl. Qineo		X	-			043 62 00 40
	Central connection Euro cpl. Qineo		-	X			043 62 00 10
1.3	Coupling NW5, female thread R1/4 - red				X	-	032 03 01 40
	Coupling NW5, female thread R1/4 - blue				X	-	032 03 01 41
1.4	Connection nipple "blow out"		-	X			048 01 00 16
	Lock washer "blow-out"		-	X			103 76 16 00
	Nut 3/9", flat "blow-out"		-	X			060 02 00 01
	Angular threaded connection "blow-out"		-	X			032 06 00 62
1.5	QWD-AR inspection glass						832 80 10 05
1.6	QWD-AR, membrane keyboard						832 80 11 10
1.7	Installation kit CDD, cpl.	CDD					892 80 60 60
	Mounted housing HAN3A/7D	CDD					010 09 25 10
	12 pole Socket insert	CDD					010 09 25 15
1.8	Mounted housing HAN3A/7D						010 09 25 10
	12 pole Socket insert						010 09 25 15
1.9	Rubber-metal buffer 70 shore						054 12 00 06



Item	Designation	Option	Application		Cooling		Part number
			SZ	EURO	Water	Air	
2.1	QWD-AR side panel right CDD (illus.)						832 80 10 13
2.2	Mounted housing HAN6E						010 11 00 71
	Pin insert HAN24DD						010 09 13 16
2.3	Mini detent pin						000 02 06 00
2.4	Connection nipple "blow out"						048 01 00 16
	Lock washer						103 76 16 00
	Nut 3/9"						060 02 00 01
	Double nipple E-1/4-3/8 MS						032 07 01 34
2.5	Coupling NW5, female thread R1/4 - red		x	x	x	-	032 03 01 40
	Screw-on attachment, straight, Ø10 x a1/4"		x	x	x	-	032 07 20 10
2.6	Plug nipple G1/4 inside NW 5		x	x	x	-	049 01 03 54
	Screw-on attachment, straight, Ø10 x a1/4"		x	x	x	-	032 07 20 10
2.7	Plug nipple "gas"	without SD					032 03 00 39
	Plug nipple "gas" (0.85mm)	SD					032 03 00 49
2.8	Power connection M12x1.5 cpl.						073 03 27 50

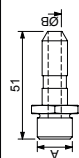
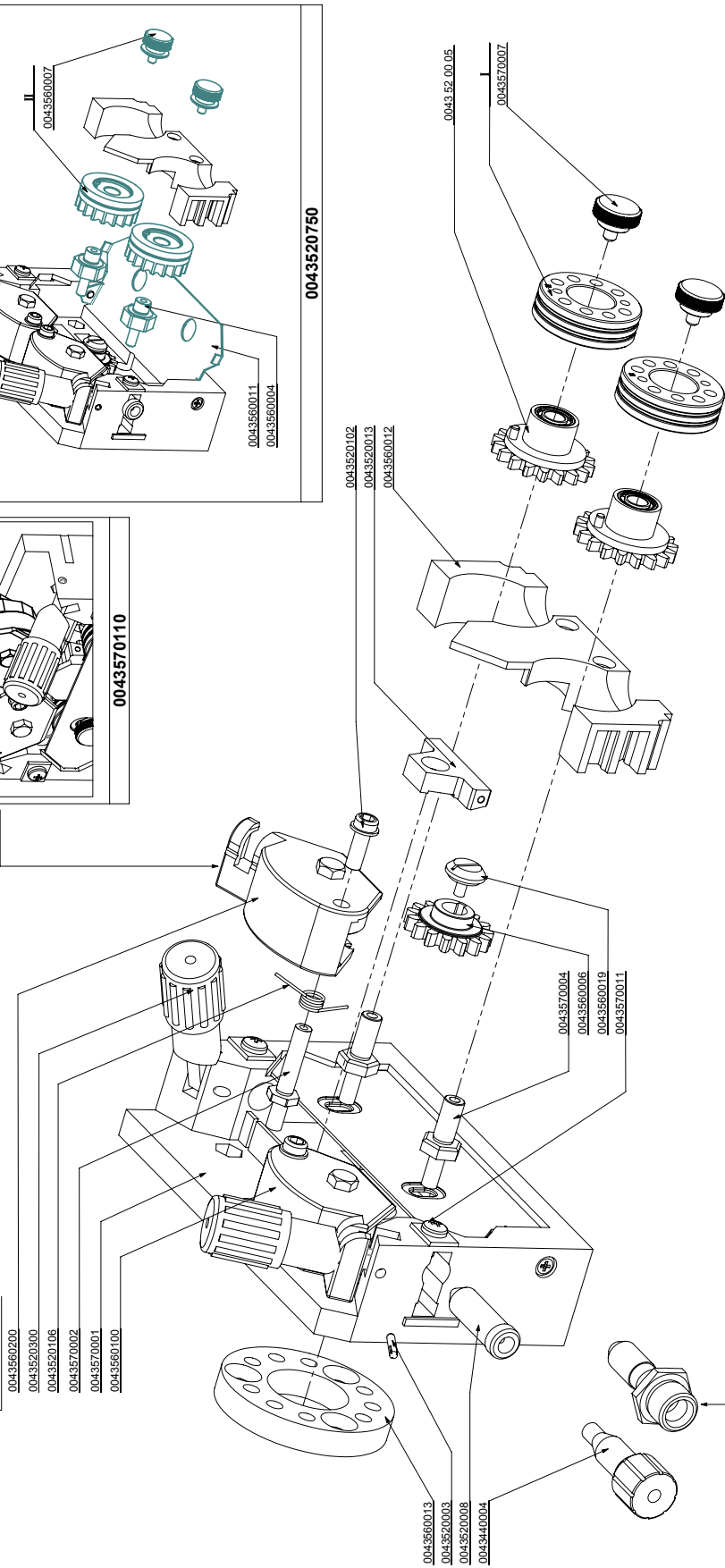
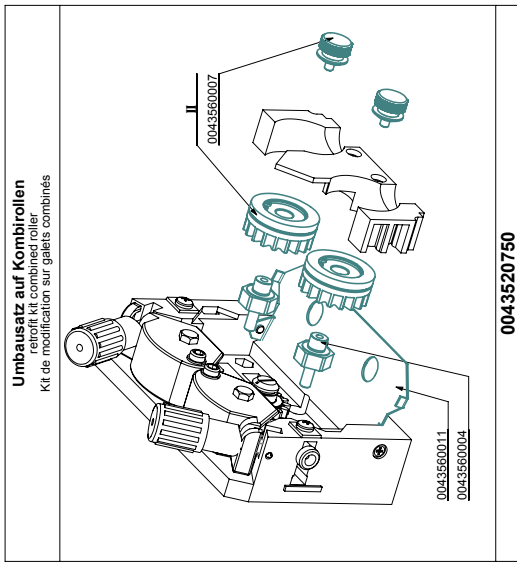
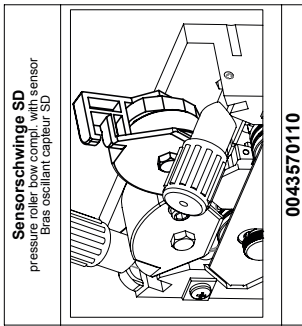


Item	Designation	Option	Application			Cooling		Part number
			SZ	EURO	EURO HW	Water	Air	
3.1	Lock washer							103 76 16 00
	2/2-way solenoid valve							032 02 85 00
	L-connection QSL VO 1/4-8							032 07 00 08
3.2	GAS VALVE 24V DC (Qineo)							048 05 17 30
3.3	L-connection QSL-VO 1/8-8							032 07 00 94
3.4	Motor gear unit							024 14 28 70
3.5	Angular threaded connection, rotating 90° Ø10	DFM	x	x		x	-	032 07 20 04
3.6	Flow meter	DFM	x	x		x	-	016 07 08 00
	Opt. Flow meter cpl.	DFM	x	x		x	-	832 00 20 10
3.7	L-connection QSL-VO 1/8-8 (without illus.)		x	-	x	x	x	032 07 00 94
	OR valve type: OS-1/8 B (no illus.)		x	-	x	x	x	032 02 48 00
3.8	L plug connection QSL 8-H	SD						032 07 00 60
3.9	Gas flow sensor 0-50l/min	SD						016 07 09 00
	Connection cable 1m for sensor 016070900	SD						016 07 09 10



Item	Designation	Option	Application		Cooling		Part number
			SZ	EURO	Water	Air	
4.1	QN-WF-32 without encoder including motor						043 63 20 00
4.2	Pressure arm WF-32						043 63 00 15
	Pressure arm WF-32 with encoder	SD					043 63 00 20
4.3	QWD-AR intermediate circuit board						033 33 43 00
	Rubber metal buffer M3 / Ø8 / height8 / length8						049 01 49 20
4.4	Spacer inside/inside M3; 10mm						049 01 49 12
	QWD-AR control						033 33 43 00
4.5	Rubber metal buffer M3 / Ø8 / height8 / length8						049 01 49 20
	Spacer inside/inside M3; 10mm						049 01 49 12
4.6	QWD-AR, output stage						033 33 42 00
	Spacer inside/outside M3; 18,0mm						049 01 49 18
4.7	Ready-made flat cable, 16 pole / 70mm						038 13 49 30
	QWD-AR side panel right						832 80 10 13
4.8	QWD-AR, output stage "EC motor"						024 14 28 80
	DC/DC converter 43-105V/24V, 150W,QWD-AR						033 25 28 50

2+2 Rollenantrieb KS
2+2 roller drive KS
Système de dévidage 2+2 galets
QN WF 12
0043570010



A	B	wire	Art. Nr.
R1/4	2.0	Stahl steel acier	0048010038
R3/8	2.0		0048010037
R3/8	5.1		0048010015
R3/8	6.2	Aluminium	0048010041
R1/4	2.0		0048010039
R3/8	3.5		0048010017

Ø	Stahl steel acier "K"	Aluminium "AK"	Fülldraht flux rod wire in "R"
0.60	0046033208		
0.80	0046033209		
0.90	0046033210	0046033310	0046033416
1.00	0046033211		
1.14	0046033212	0046033312	0046033416
1.20	0046033213		
1.32	0046033214	0046033316	0046033416
1.40	0046033216	0046033316	0046033416
1.60			

Ø	Stahl steel acier	Aluminium	Fülldraht flux rod wire in "R"
0.60	0046043206	0046043306	
0.80	0046043208	0046043308	
0.90			
1.00	0046043210	0046043310	
1.14			
1.20	0046043212	0046043312	
1.32			
1.40			
1.60	0046043216	0046043316	0046043416

QN-WF-12-HD Wire feed unit

Suitable for QWD "M2", QWD "Portable", QWD "A", QWD "TWIN Drive"

2+2 Rollenantrieb HD

2+2 roller drive HD

Système de dévidage 2+2 galets

QN WF 12 HD

0043520000

Sensorschwinge SD

pressure roller bow compl. with sensor

Bras oscillant capteur SD

0043530100

Umbausatz auf Kombirollen

retrofit kit combined roller

Kit de modification sur galets combinés

0043520700

A	B	wire	Art. Nr.
R 1/4	2.0	Stahl	0048010038
R 3/8	2.0	Stahl	0048010037
R 3/8	5.1	Stahl	0048010015
R 3/8	6.2	Stahl	0048010041
R 1/4	2.0	Aluminium	0048010039
R 3/8	3.5	Aluminium	0048010077

Stahl steel acier	Aluminium	Fülldraht flux cordon fil fourré fil fourré "R"
0.60	0.60	0.60
0.80	0.80	0.80
1.00	1.00	1.00
1.14	1.14	1.14
1.20	1.20	1.20
1.32	1.32	1.32
1.40	1.40	1.40
1.60	1.60	1.60

Stahl steel acier	Aluminium	Fülldraht flux cordon fil fourré fil fourré "R"
0.60	0.60	0.60
0.80	0.80	0.80
1.00	1.00	1.00
1.14	1.14	1.14
1.20	1.20	1.20
1.32	1.32	1.32
1.40	1.40	1.40
1.60	1.60	1.60

Stahl steel acier	Aluminium	Fülldraht flux cordon fil fourré fil fourré "R"
0.60	0.60	0.60
0.80	0.80	0.80
1.00	1.00	1.00
1.14	1.14	1.14
1.20	1.20	1.20
1.32	1.32	1.32
1.40	1.40	1.40
1.60	1.60	1.60

QN-WF-22 Wire feed unit

Suitable for QWD "M3"/"M4", "A3"/"A4", "P3", "TWIN Drive3"

2+2 Rollenantrieb

2+2 roller drive
Système de dévidage 2+2 galets
QN WF 22
0043590000

Druckarm für SD Überwachung
pressure arm for SD monitoring
Braz de pression pour surveillance SD
optional / en option

0043591030

0043583001
0043582002
0043580106
0043582003
0043582001
0043590101
0102406012
0043582004
0043590102
0043580104
0043580107

Umrüstbausatz HD
refit kit HD
Kit de modification système de dévidage 4 galets

0043610102
0043610104
0043610105
0043610103
0043591010
0043610102
0043610101
0043591002
0046050401
0043591008
0043610103
0043591020

Umrüstbausatz 4 Rollenantrieb
refit kit 4 roller drive
Kit de modification système de dévidage 4 galets

0043610102
0043610101
0043591002
0046050401
0043591008
0043610103
0043591020

STOP

0043581001
0043581002
043581020
0043660003
0043580102

Ø	Stahl steel acier	Aluminium	Fülldraht flux cored wire fil fourré
0.6	0046050106	0046050207	
0.8	0046050108	0046050209	
0.9	0046050109	0046050210	
1.0	0046050110	0046050211	
1.1	0046050111	0046050212	
1.2	0046050112	0046050213	
1.32	0046050113	0046050214	
1.4	0046050114	0046050215	
1.6	0046050116	0046050216	
2.0	0046050120	0046050220	
2.4	0046050124	0046050320	

A	B	wire	Art.Nr.
R1/4	2.0	Stahl	0048010038
R3/8	2.0	steel	0048010048
R3/8	5.1	steel	0048010015
R3/8	6.2	acier	0048010041
R1/4	2.0	Aluminium	0048010039
R3/8	3.5		0048010077

Ø	wire	Art.Nr.
0.8-1.0	Stahl	0043580117
1.2	steel	0043580118
	acier	0043580119
	Aluminium	0043580114

Rev.: 03

D-DIS: 10000195894

M-DIS: 10000195489

Autor: SEIDEL

Datum: 13.08.2018

Suitable for QWD "M3"/"M4", "A3"/"A4", "P3", "TWIN Drive3"

Suitable for QWD "M3"/"M4", "A3"/"A4", "P3", "TWIN Drive3"



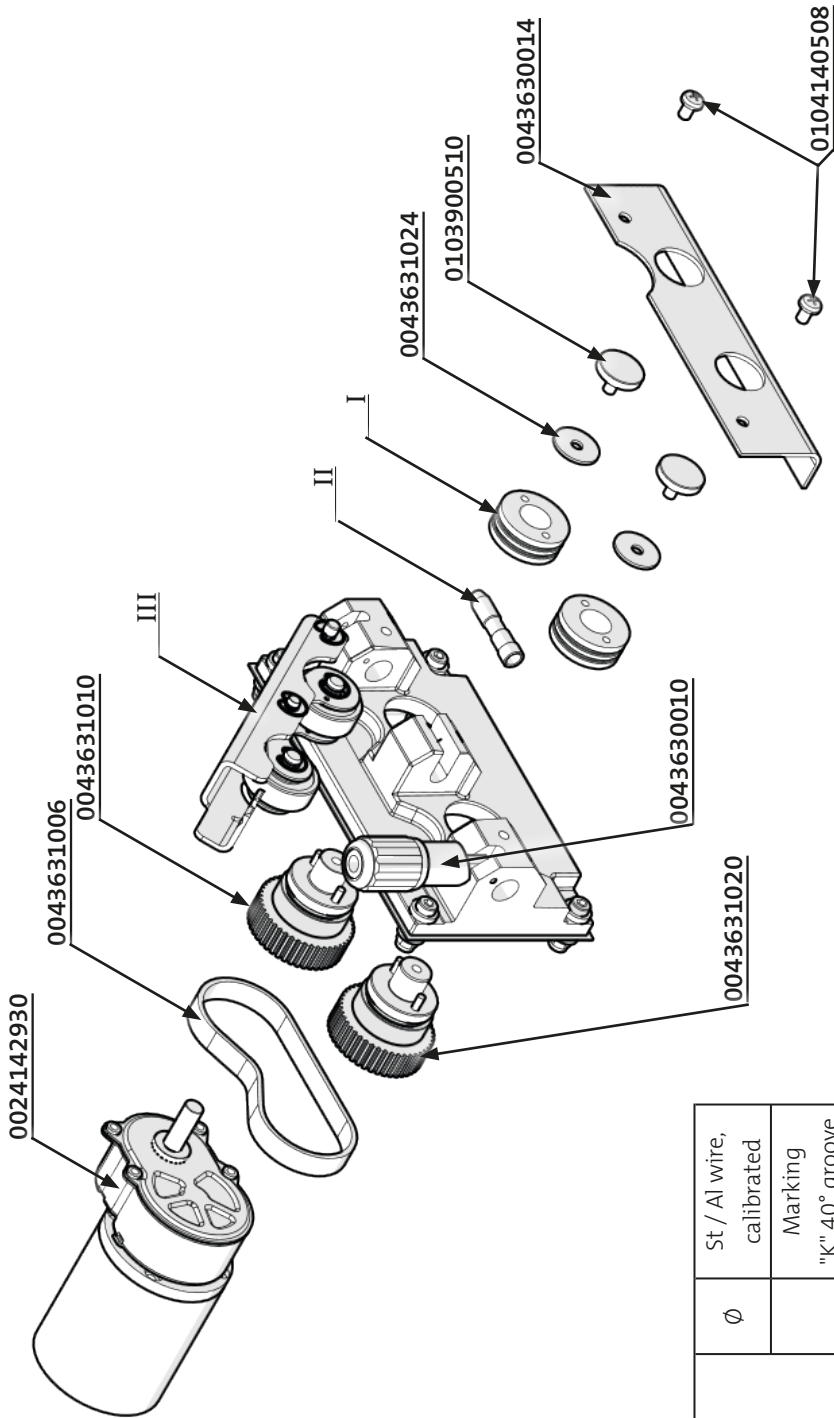
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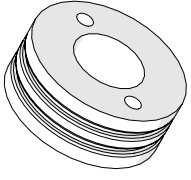
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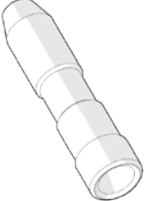
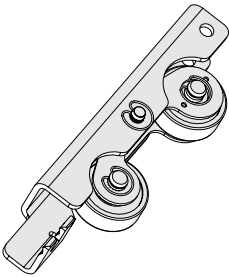
Autor: SEIDEL

Datum: 16.08.2018

QN-WF-32 Wire feed unit
Suitable for QWD "AR"

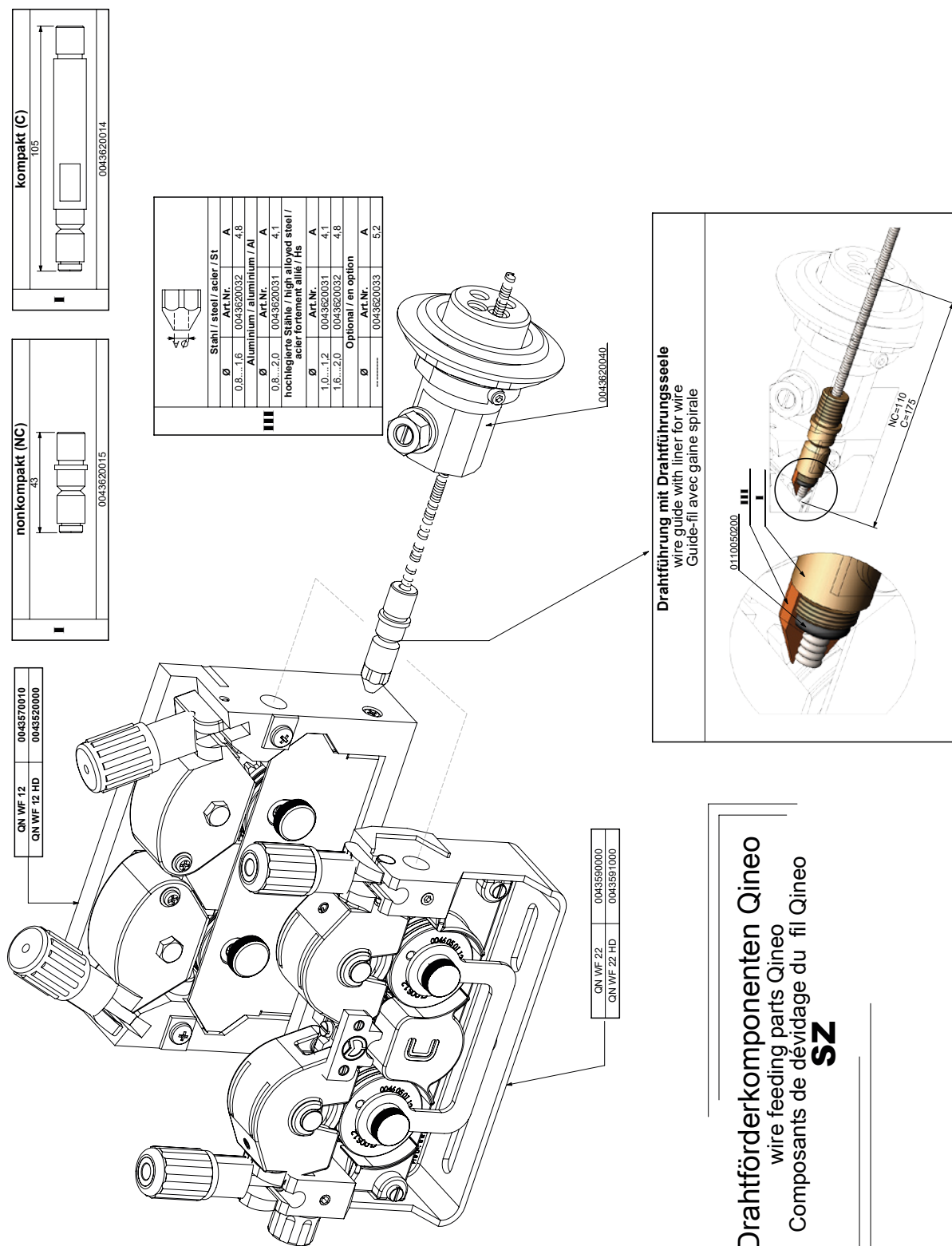


I	Ø	St / Al wire, calibrated
		Marking
	0.60	"K" 40° groove
	0.80	
	0.90	0046032609
	1.0	0046032610
	1.14	
	1.20	0046032612
	1.32	46033012 (60°)
	1.40	0046032613
	1.60	
		0046032616

II				
	Brass	0043630005	without SD	0043630015
III	Plastic	0043630006	with SD	0043630020
				

Wire guide Cloos SZ

Suitable for QN-WF-12 / QN-WF-12-HD / QN-WF-22 / QN-WF-22-HD



Rev.: 02

D-DIS: 10000190459

M-DIS: 10000091949

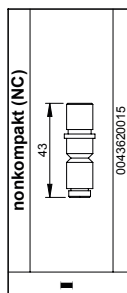
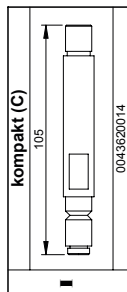
Autor: GTK_E2

Datum: 02.09.2014

Wire guide Euro (QN-WF-12)

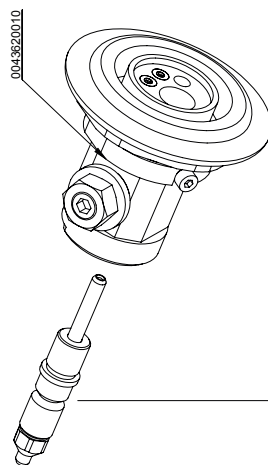
Suitable for QN-WF-12 / QN-WF-12-HD

QN WF 12	0043570010
QN WF 12 HD	0043520000



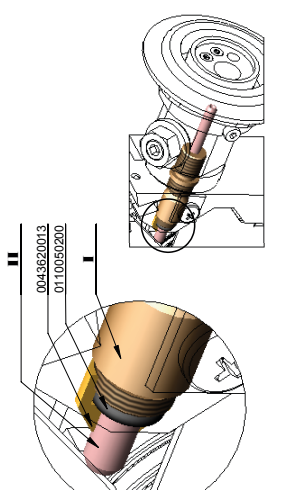
Stahl / steel / acier / St		
Ø	Art.Nr.	B
0.6...1.6	0043620016	145
1.8...2.4	0043620023	145
Aluminium / aluminium / Al		2.5
hochlegierte Stähle / high alloyed steel /		
acier fortement allié / Hs		
Ø	Art.Nr.	B
0.6...1.6	0043620024	145
1.8...2.4	0043620025	145
		2.5

Stahl / steel / acier / St		
Ø	Art.Nr.	B
0.6...1.6	0043620012	80
1.8...2.4	0043620021	80
Aluminium / aluminium / Al		2.5
hochlegierte Stähle / high alloyed steel /		
acier fortement allié / Hs		
Ø	Art.Nr.	B
0.6...1.6	0043620023	80
1.8...2.4	0043620022	80
		2.5

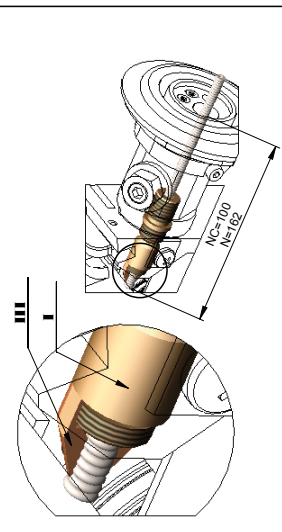


Stahl / steel / acier / St		
Ø	Art.Nr.	A
0.6...1.6	0043620032	4.8
Aluminium / aluminium / Al		
Ø	Art.Nr.	A
0.6...2.0	0043620031	4.1
hochlegierte Stähle / high alloyed steel /		
acier fortement allié / Hs		
Ø	Art.Nr.	A
1.0...1.2	0043620031	4.1
1.6...2.0	0043620032	4.8
Optional / en option		
Ø	Art.Nr.	A
-----	0043620033	5.2

Drahtführung mit Drahtführungsrohr
wire guide with wire guide tube
Guide-fil avec tube de guidage de fil



Optional / en option: Drahtführung mit Drahtführungsseele
wire guide with liner for wire
Guide-fil avec gaine spirale

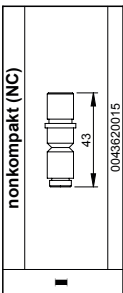
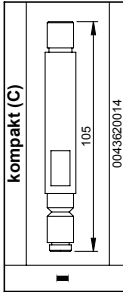


Drahtförderkomponenten Qineo
wire feeding parts Qineo
Composants de dévidage du fil Qineo
EURO

Wire guide Euro (QN-WF-22)

Suitable for QN-WF-22 / QN-WF-22-HD

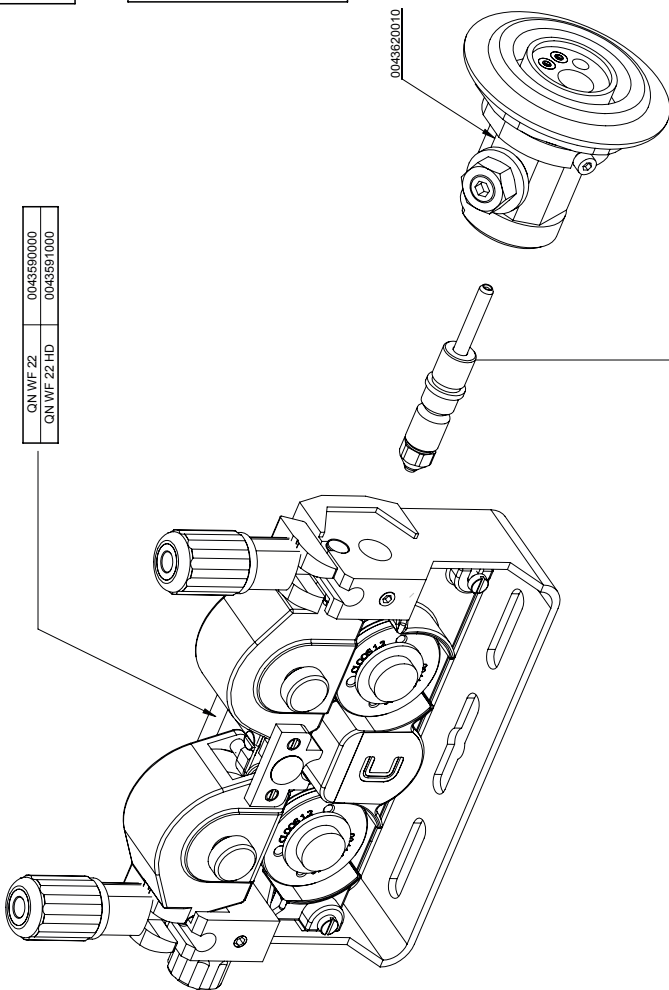
QN WF 22	0043590000
QN WF 22 HD	0043591000



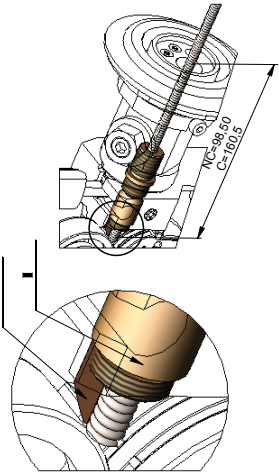
Stahl / steel / acier / St	
Ø	Art.Nr.
0.6...1.6	0043620046
1.8...2.4	0043620047
Aluminium / aluminium / Al	
0.6...1.6	0043620048
1.8...2.4	0043620049

Stahl / steel / acier / St	
Ø	Art.Nr.
0.6...1.6	0043620042
1.8...2.4	0043620045
Aluminium / aluminium / Al	
0.6...1.6	0043620043
1.8...2.4	0043620044

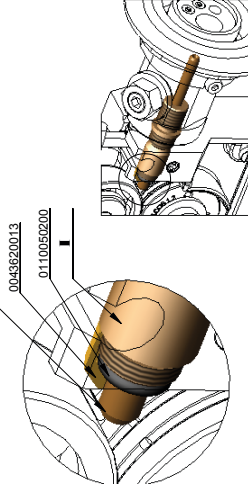
Stahl / steel / acier / St	
Ø	Art.Nr.
0.6...1.6	0043620032
Aluminium / aluminium / Al	
0.6...1.6	0043620031
1.8...2.4	0043620033
hochlegiertes Stahl / high alloyed steel / acier trempé allié / Hs	
0.6...1.6	0043620031
1.8...2.4	0043620032
Optional / en option	
Ø	Art.Nr.
5.2	0043620033



Optional: Drahtführung mit Drahtführungsseele
wire guide with liner for wire
Guide-fil avec gaine spirale



Drahtführung mit Drahtführungsrohr
wire guide with wire guide tube
Guide-fil avec tube de guidage de fil



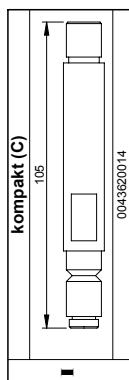
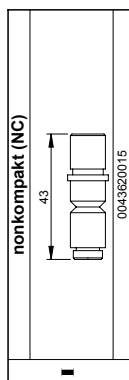
Drahtförderkomponenten Qineo
wire feeding parts Qineo
Composants de dévidage du fil Qineo

EURO

Wire guide Dinse

Suitable for QN-WF-12 / QN-WF-12-HD / QN-WF-22 / QN-WF-22-HD

QN WF 12	0043570010
QN WF 12 HD	0043520000

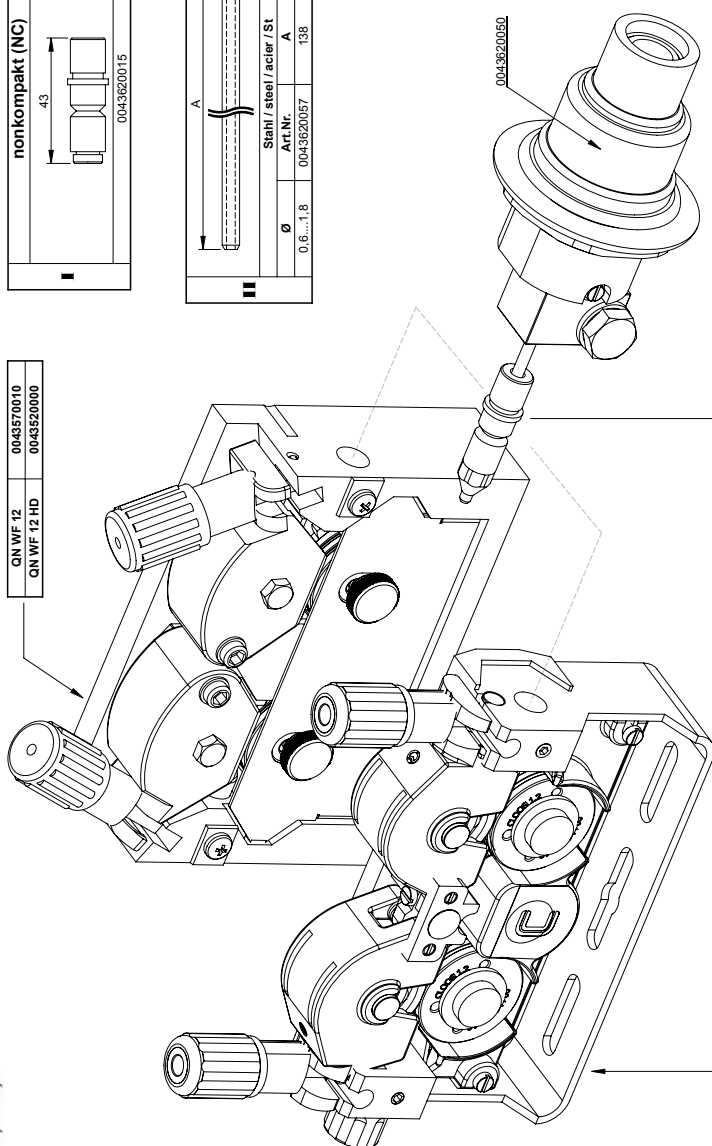


Ø	A	B
0.6...1.8	138	2.0

Stahl / steel / acier / St
Art.Nr. 0043620057

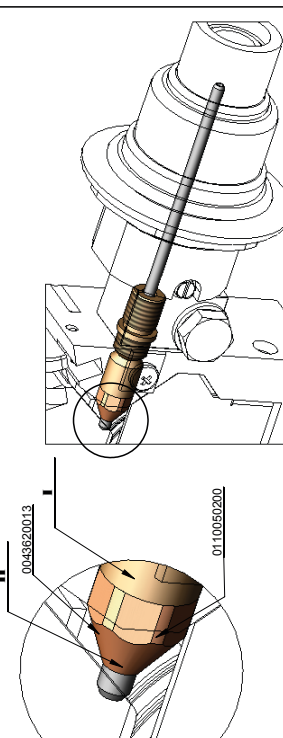
Ø	A	B
0.6...1.8	200	2.0

Stahl / steel / acier / St
Art.Nr. 0043620058

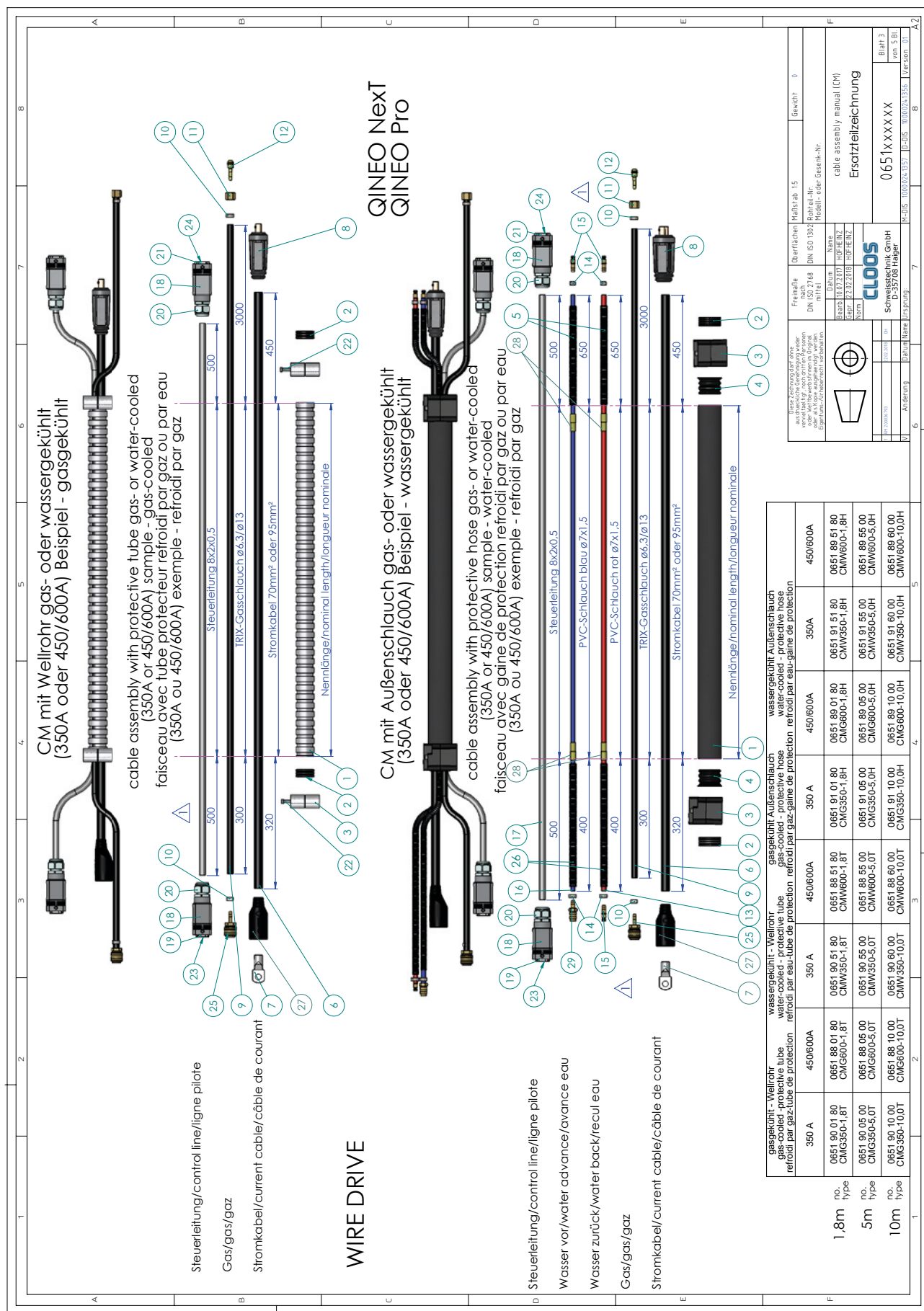


QN WF 22	0043590000
QN WF 22 HD	0043591000

Drahtführung mit Drahtführungsrohr
wire guide with wire guide tube
Guide-fil avec tube de guidage de fil

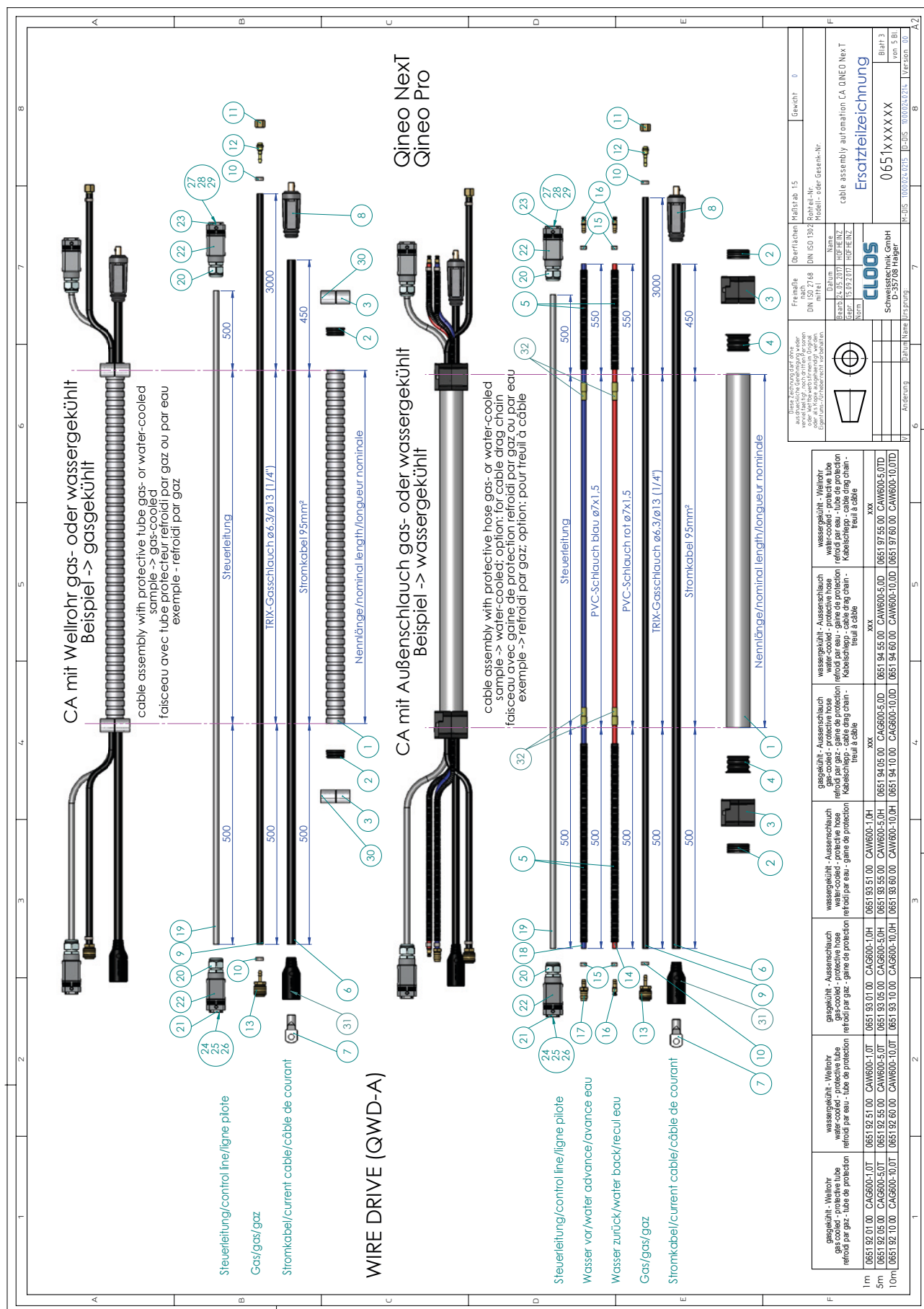


Drahtförderkomponenten Qineo
wire feeding parts Qineo
Composants de dévidage du fil Qineo
Dinse



Parts list - VSP - CM Manual

Designation		gas-cooled, corrugated tube 350A		water-cooled, corrugated tube 450/600A		gas-cooled, outer hose 350A		water-cooled, outer hose 450/600A	
Pos.	QU	Designation	CMaxx nomi- mal length	0040 07 10 00	0040 07 10 00	0040 07 00 00	0040 06 08 00	0040 06 08 00	0040 06 23 00
				0040 07 10 80	0040 07 10 70	0040 07 00 80	0040 07 10 80	0040 07 00 80	0040 07 00 70
				0040 07 20 10	0040 07 20 10	0040 07 20 15	0040 06 08 45	0040 06 23 50	0040 06 23 50
				0	0	0	0040 06 08 46	0040 06 23 51	0040 06 23 51
1	1	Corrugated tube p.m.		0	0	0040 07 50 00	0040 07 50 00	0040 07 50 00	0040 07 50 00
2	2	Outer hose p.m.		0038 03 04 00	0038 03 05 00	0038 03 04 00	0038 03 05 00	0038 03 04 00	0038 03 05 00
3	3	Clamp		0034 06 00 04	0034 06 00 04	0034 06 00 04	0034 06 00 04	0034 06 00 04	0034 06 00 04
4	2	Clamping ring	0.65m	0073 03 11 00	0073 03 11 00	0073 03 11 00	0073 03 11 00	0073 03 11 00	0073 03 11 00
5	2	Corrugated tube ø12 p.m.	+0.77m	0040 03 02 00	0040 03 02 00	0040 03 02 00	0040 03 02 00	0040 03 02 00	0040 03 02 00
6	1	Power cable p.m.		0042 02 00 15	0042 02 00 15	0042 02 00 15	0042 02 00 15	0042 02 00 15	0042 02 00 15
7	1	Tube crimping lug		0060 04 00 01	0060 04 00 01	0060 04 00 01	0060 04 00 01	0060 04 00 01	0060 04 00 01
8	1	Welding cable plug 70-95mm²		0060 01 00 03	0060 01 00 03	0060 01 00 03	0060 01 00 03	0060 01 00 03	0060 01 00 03
9	1	TRIX gas hose	+3.3m	0	0	0040 01 18 00	0	0040 01 18 00	0040 01 18 00
10	1	Circlip 13.8		0	0	0042 02 00 14	0	0042 02 00 14	0042 02 00 14
11	1	Union nut R3/8		0	0	0032 03 00 76	0	0032 03 00 76	0032 03 00 76
12	1	Hose connector, small	+1.05m	0	0	0040 01 17 00	0	0040 01 17 00	0040 01 17 00
13	1	PVC hose, red Ø7x1.5mm		0038 14 12 20	0038 14 12 20	0038 14 12 20	0038 14 12 20	0038 14 12 20	0038 14 12 20
14	2	Circlip 11.8		0010 09 13 20	0010 09 13 20	0010 09 13 20	0010 09 13 20	0010 09 13 20	0010 09 13 20
15	2	Plug nipple NW5		0010 09 13 15	0010 09 13 15	0010 09 13 15	0010 09 13 15	0010 09 13 15	0010 09 13 15
16	1	PVC hose, blue Ø7x1.5mm	+1.05m	0035 03 61 00	0035 03 61 00	0035 03 61 00	0035 03 61 00	0035 03 61 00	0035 03 61 00
17	1	LIVCY cable (TP) 8x2x0.5 p.m.	+1.0m	0010 09 13 16	0010 09 13 16	0010 09 13 16	0010 09 13 16	0010 09 13 16	0010 09 13 16
18	2	Sleeve housing straight HAN 24 DD		0102 20 60 35	0102 20 60 35	0102 20 60 35	0	0	0
19	1	Bushing part 24 pole HAN 24 DD		0010 09 18 30	0010 09 18 30	0010 09 18 30	0010 09 18 30	0010 09 18 30	0010 09 18 30
20	2	Cable screw connection M25		0010 09 18 04	0010 09 18 04	0010 09 18 04	0010 09 18 04	0010 09 18 04	0010 09 18 04
21	1	Pin 24 pole HAN 24 DD		0032 03 00 38	0032 03 00 38	0032 03 00 38	0032 03 00 38	0032 03 00 38	0032 03 00 38
22	4	Cylinder screw M6x35, DIN 912		0	0	0040 07 50 00	0	0040 07 50 00	0040 07 50 00
23	17	Crimp contact bushing 0.5mm²		0833 58 11 50	0833 58 11 50	0833 58 11 50	0833 58 11 50	0833 58 11 50	0833 58 11 50
24	17	Crimp contact pin 0.5mm²							
25	1	Quick coupling NW 7.2							
26	2	Corrugated tube ø12 p.m.	0.6m						
27	1	Qineo cover power connection							
28	4	Antikink protective sleeve for corrugated hose Ø16							
29	1	Seal coupling for hose D=8		0	0	0032 03 00 77	0032 03 00 77	0032 03 00 77	0032 03 00 77

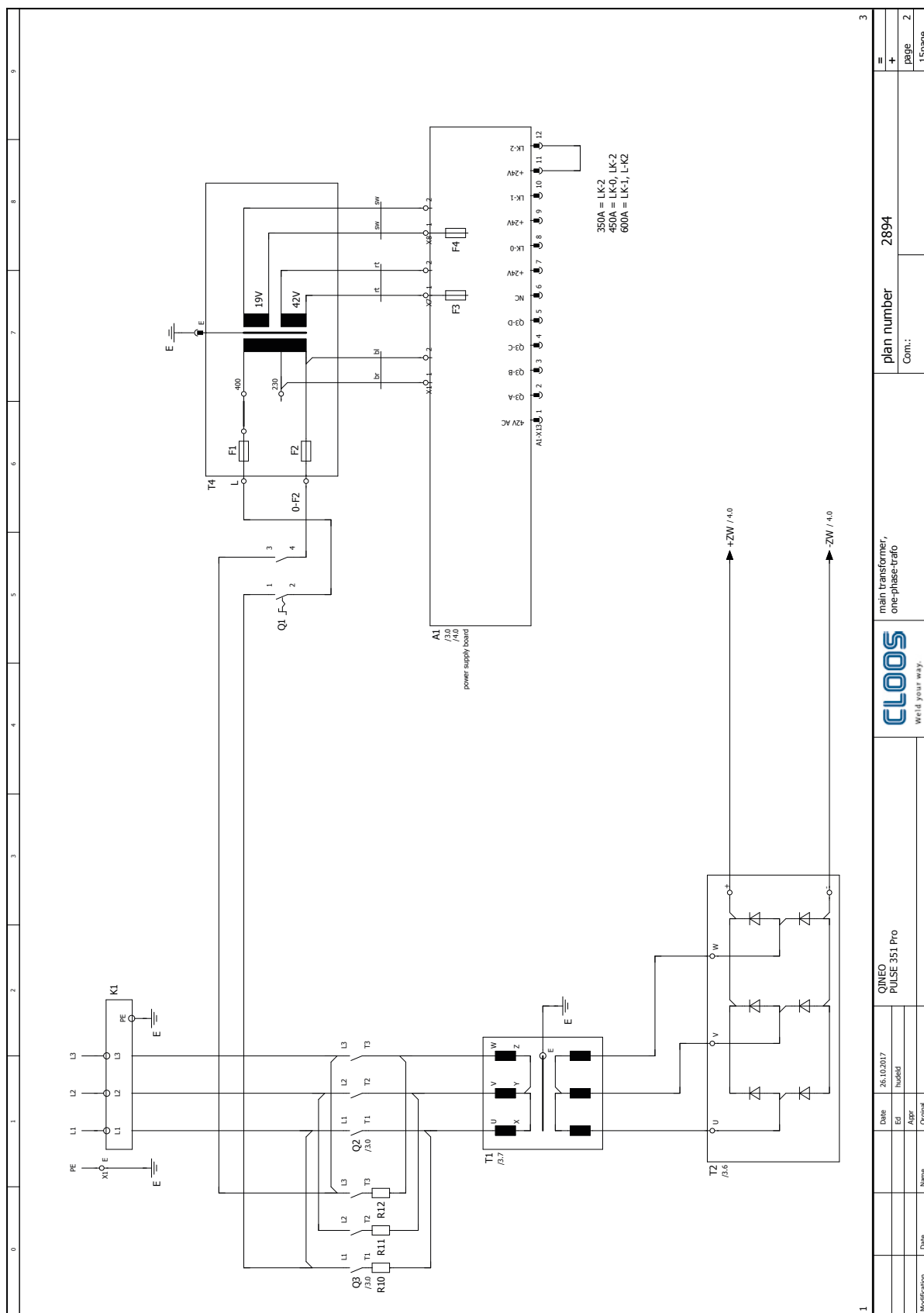


Parts list - VSP - CA Automation

Designation		with corrugated tube		with outer hose		with outer hose		with corrugated tube	
		gas-cooled	water-cooled	gas-cooled	water-cooled	gas-cooled	water-cooled	gas-cooled	water-cooled
No. CA 1.0m type	Nennlänge/ nominal length/	0651 92 01 00	0651 92 51 00	0651 93 01 00	0651 93 51 00	0	0	0	0
No. CA 5.0m type	longueur nominale	CAG600-1,0T	CAW600-1,0T	CAG600-1,0H	CAW600-1,0H	0651 94 05 00	0651 94 55 00	0651 94 05 00	0651 94 55 00
No. CA 10.0m type		0651 92 05 00	0651 92 55 00	0651 93 05 00	0651 93 55 00	CAG600-5,0D	CAW600-5,0D	CAG600-5,0D	CAW600-5,0D
		CAG600-5,0T	CAW600-5,0T	CAG600-5,0H	CAW600-5,0H	0651 94 10 00	0651 94 60 00	0651 94 10 00	0651 94 60 00
		0651 92 10 00	0651 92 60 00	0651 93 10 00	0651 93 60 00	CAG600-10,0D	CAW600-10,0D	CAG600-10,0D	CAW600-10,0D
		CAG600-10,0T	CAW600-10,0T	CAG600-10,0H	CAW600-10,0H				
Item	QU	Designation		Dimension					
1	1	Corrugated tube p.m.		CA nominal length		0040 07 10 00	0040 07 00 00	0040 06 08 00	0040 06 23 00
2	2	Outer hose p.m.				0040 07 10 70	0040 07 00 70	0040 07 00 70	0040 07 10 70
3	2	Cable star				0040 07 20 10	0040 07 20 15	0040 06 08 45	0040 06 23 50
4	2	Clamp				0	0	0040 06 08 46	0040 06 23 51
5	4	Clamping ring		0.55m		0	0	0	0
6	4	Outer hose p.m.				0040 07 50 00	0040 07 50 00	0040 06 08 46	0040 06 23 51
7	1	Power cable p.m.		Nominal length +0.95m		0038 03 05 00	0038 03 05 00	0038 03 05 00	0038 03 05 00
8	1	Tube crimping lug				0034 06 00 04	0034 06 00 04	0034 06 00 04	0034 06 00 04
9	1	Welding cable plug				0073 03 11 00	0073 03 11 00	0073 03 11 00	0073 03 11 00
10	1	TRIX gas hose		Nominal length +3.5m		0040 03 02 00	0040 03 02 00	0040 03 02 00	0040 03 02 00
11	2	Circlip 13.8				0042 02 00 15	0042 02 00 15	0042 02 00 15	0042 02 00 15
12	1	Union nut R3/8				0060 04 00 01	0060 04 00 01	0060 04 00 01	0060 04 00 01
13	1	Hose connector, small				0060 01 00 03	0060 01 00 03	0060 01 00 03	0060 01 00 03
14	1	Locking coupling NW7.2				0032 03 00 38	0032 03 00 38	0032 03 00 38	0032 03 00 38
15	4	PVC hose red ø7x1.5 p.m.		Nominal length +1.05m		0	0	0040 01 18 00	0040 01 18 00
16	3	Circlip 11.8				0042 02 00 14	0	0042 02 00 14	0042 02 00 14
17	1	Plug nipple NW5				0032 03 00 76	0	0032 03 00 76	0032 03 00 76
18	1	Locking coupling NW5				0	0	0032 03 00 77	0032 03 00 77
19	1	PVC hose blue ø7x1.5 p.m.		Nominal length +1.05m		0040 01 17 00	0	0040 01 17 00	0040 01 17 00
20	1	Cable p.m.		Nominal length +1.0m		0038 14 12 20	0038 14 12 20	0038 07 72 10	0038 07 72 10
21	2	Screwed cable gland M25 polyamide				0035 03 61 00	0035 03 61 00	0035 03 61 00	0035 03 61 00
22	1	Bushing part 24 pole HAN 24 DD				0010 09 13 15	0010 09 13 15	0010 09 13 15	0010 09 13 15
23	2	Sleeve housing straight high HAN 24 DD				0010 09 13 20	0010 09 13 20	0010 09 13 20	0010 09 13 20
24	4	Crimp contact bushing 0.75-1.0mm² HAN D				0010 09 18 10	0010 09 18 10	0010 09 18 10	0010 09 18 10
25	11	Crimp contact bushing 0.5mm² HAN D				0010 09 18 30	0010 09 18 30	0010 09 18 30	0010 09 18 30
26	4	Crimp contact bushing 0.14-0.37mm² HAN D				0010 09 18 80	0010 09 18 80	0010 09 18 80	0010 09 18 80
27	4	Crimp contact pin 0.75-1.0mm² HAN D				0010 09 18 03	0010 09 18 03	0010 09 18 03	0010 09 18 03
28	11	Crimp contact pin 0.5mm² HAN D				0010 09 18 04	0010 09 18 04	0010 09 18 04	0010 09 18 04
29	4	Crimp contact pin 0.14-0.37mm² HAN D				0010 09 18 05	0010 09 18 05	0010 09 18 05	0010 09 18 05
30	1	Pin 24 pole HAN 24 DD				0010 09 13 16	0010 09 13 16	0010 09 13 16	0010 09 13 16
31	4	Cylinder screw M6x35, DIN 912				0102 20 60 35	0102 20 60 35	0	0
32	1	Cover power connection				0833 58 11 50	0833 58 11 50	0833 58 11 50	0833 58 11 50
33	4	Antikink protective sleeve for corrugated hose ø16				0	0	0049 04 21 10	0049 04 21 10

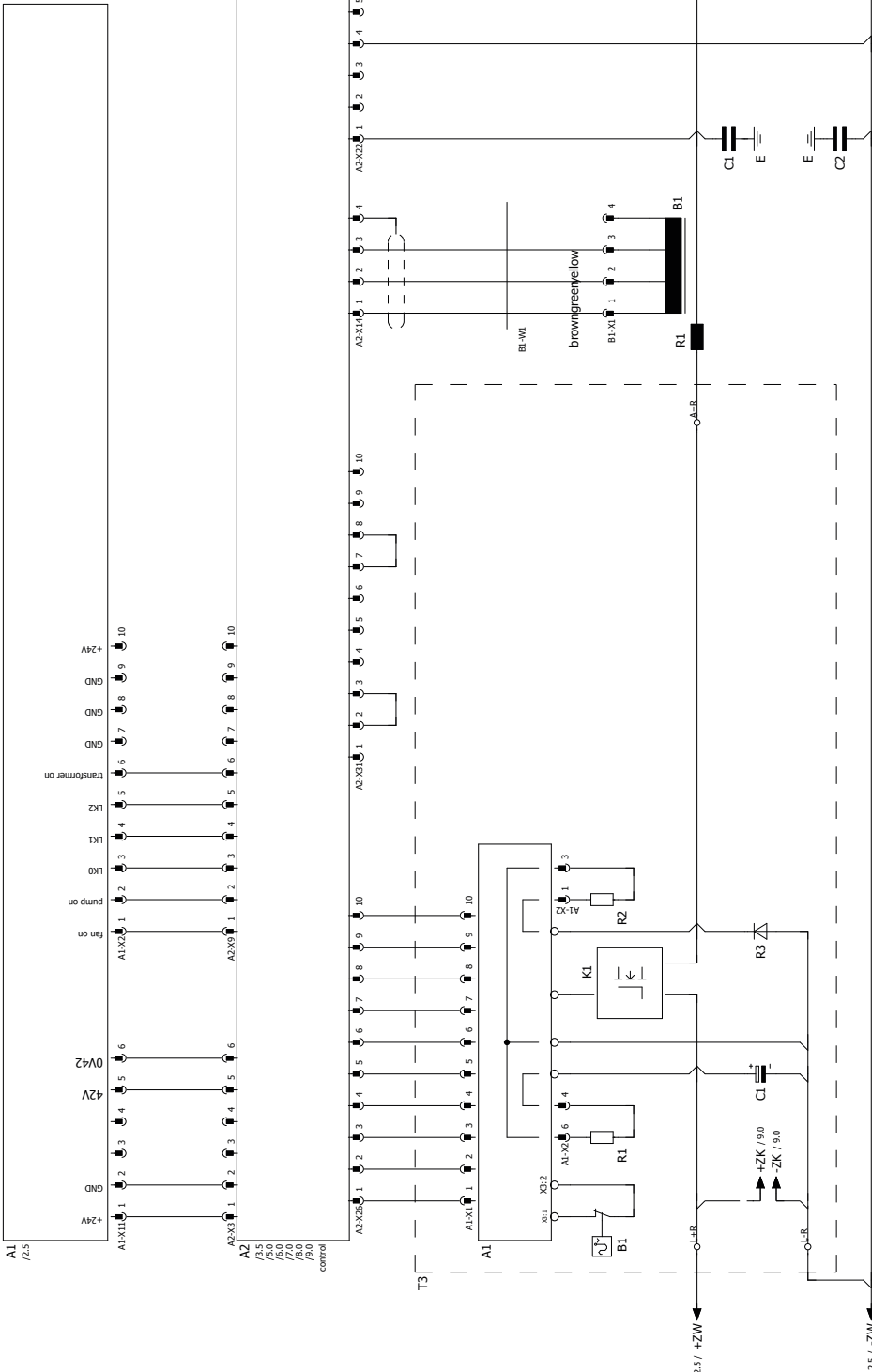
2. Circuit diagrams and parts lists

PULSE Pro 351 (Circuit No. 2894)

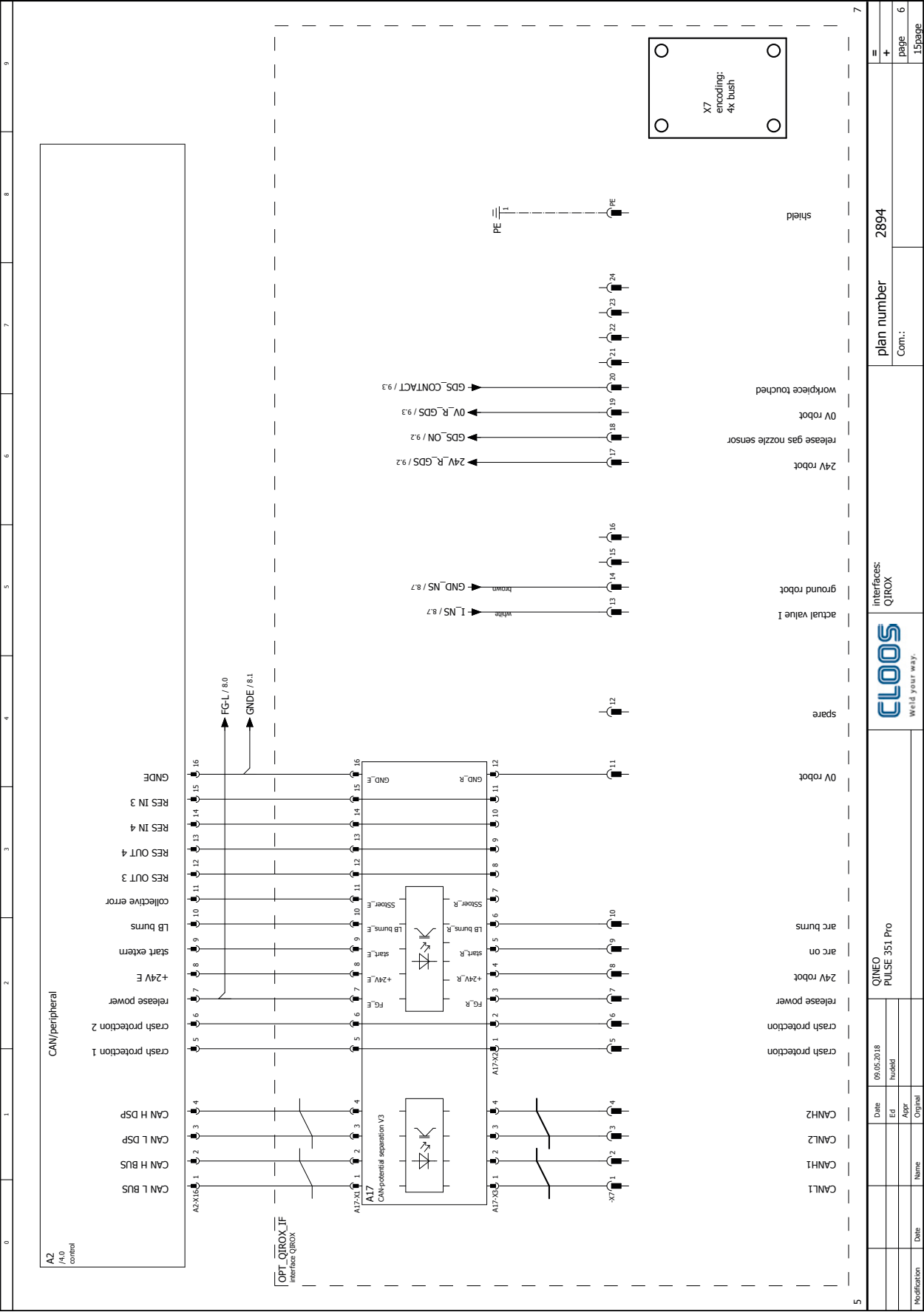


Circuit No. 2894 (PULSE Pro 351)
Compare the circuit number with the one of your machine

Circuit No. 2894 (PULSE Pro 351)



Circuit No. 2894 (PULSE Pro 351)
Compare the circuit number with the one of your machine



Interfaces:
QIROX

QINEO
PULSE 351 Pro

09.05.2018
hudeb

Date
Ed

Name
Appr

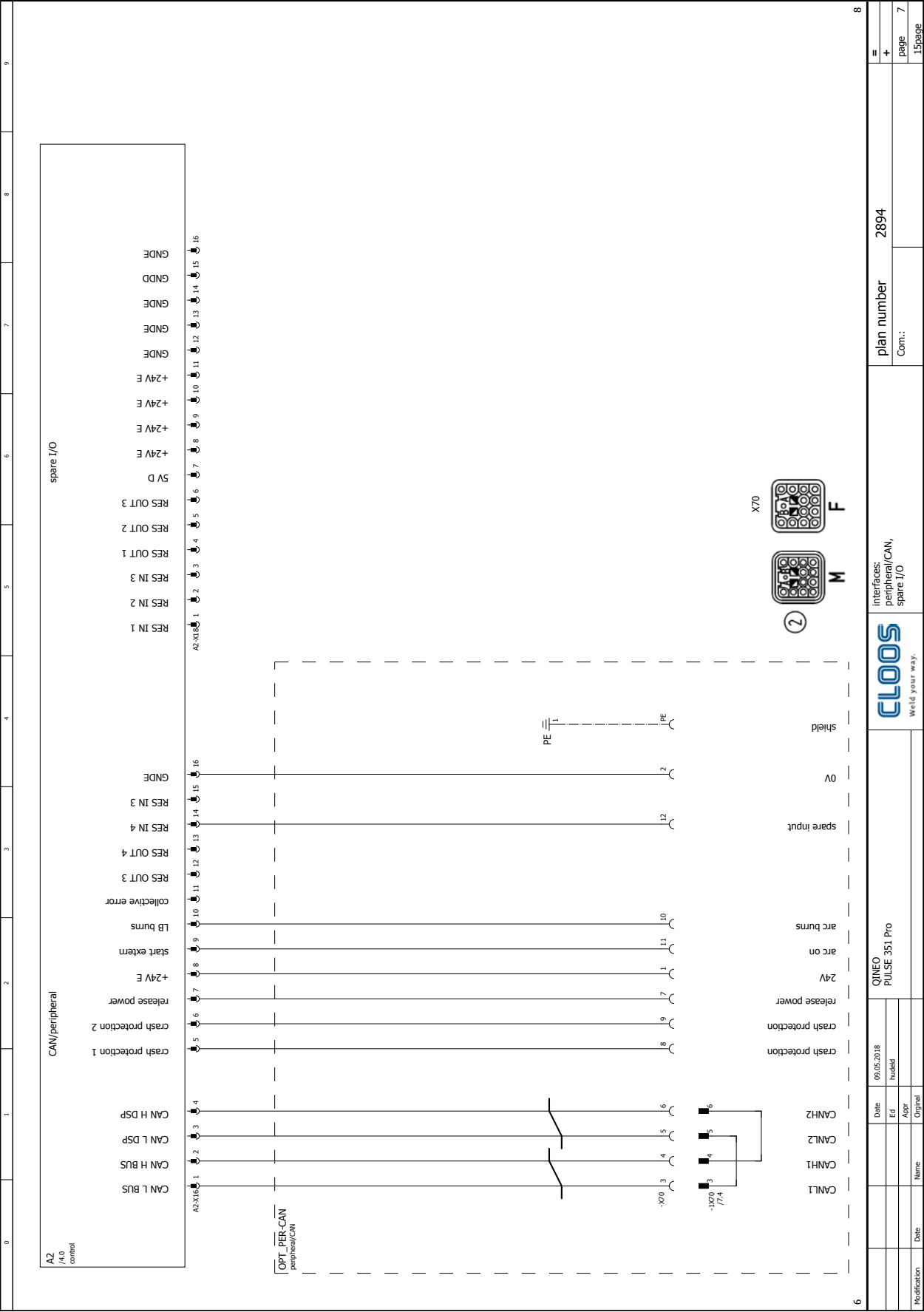
Date
Original

plan number
2894

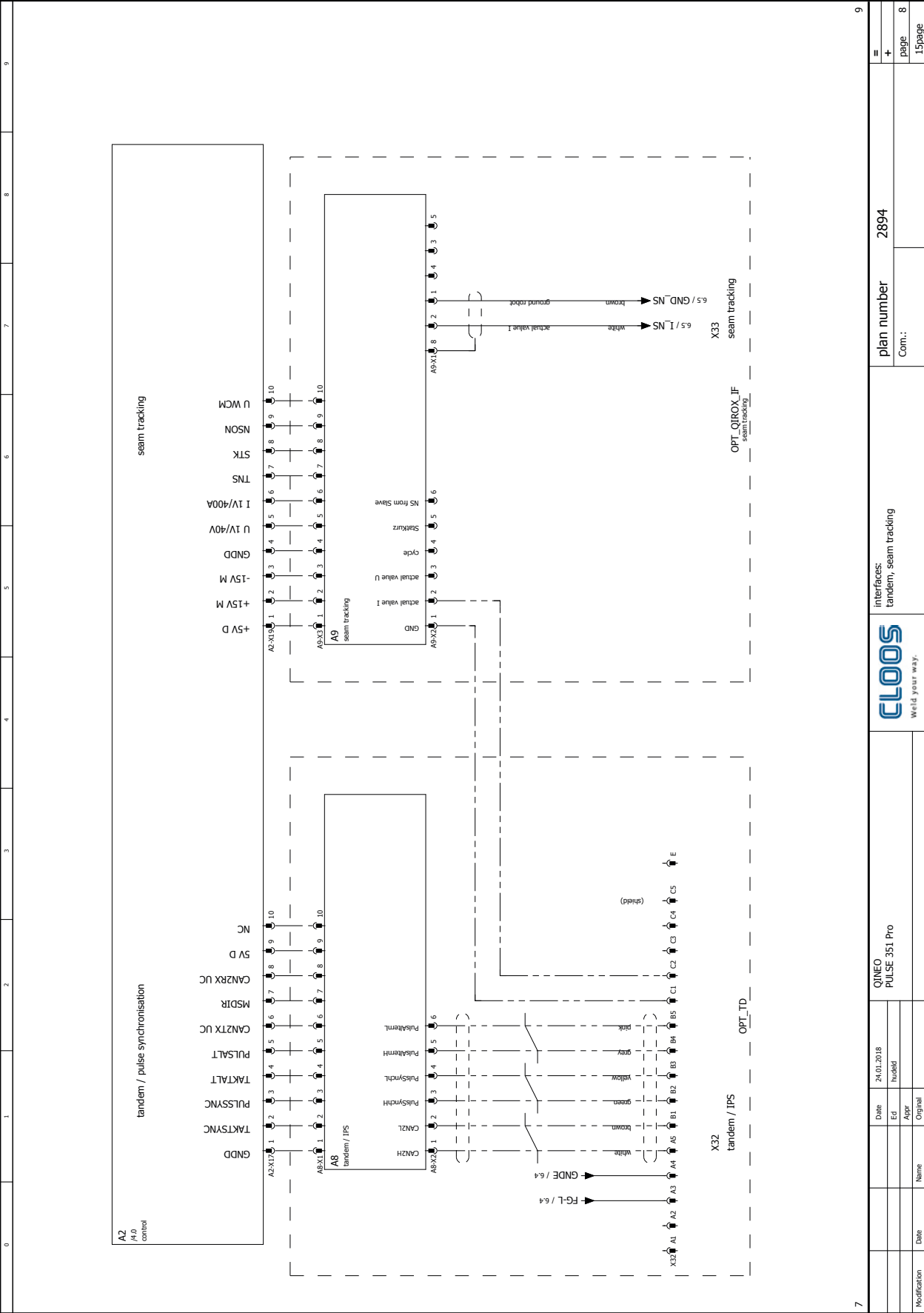
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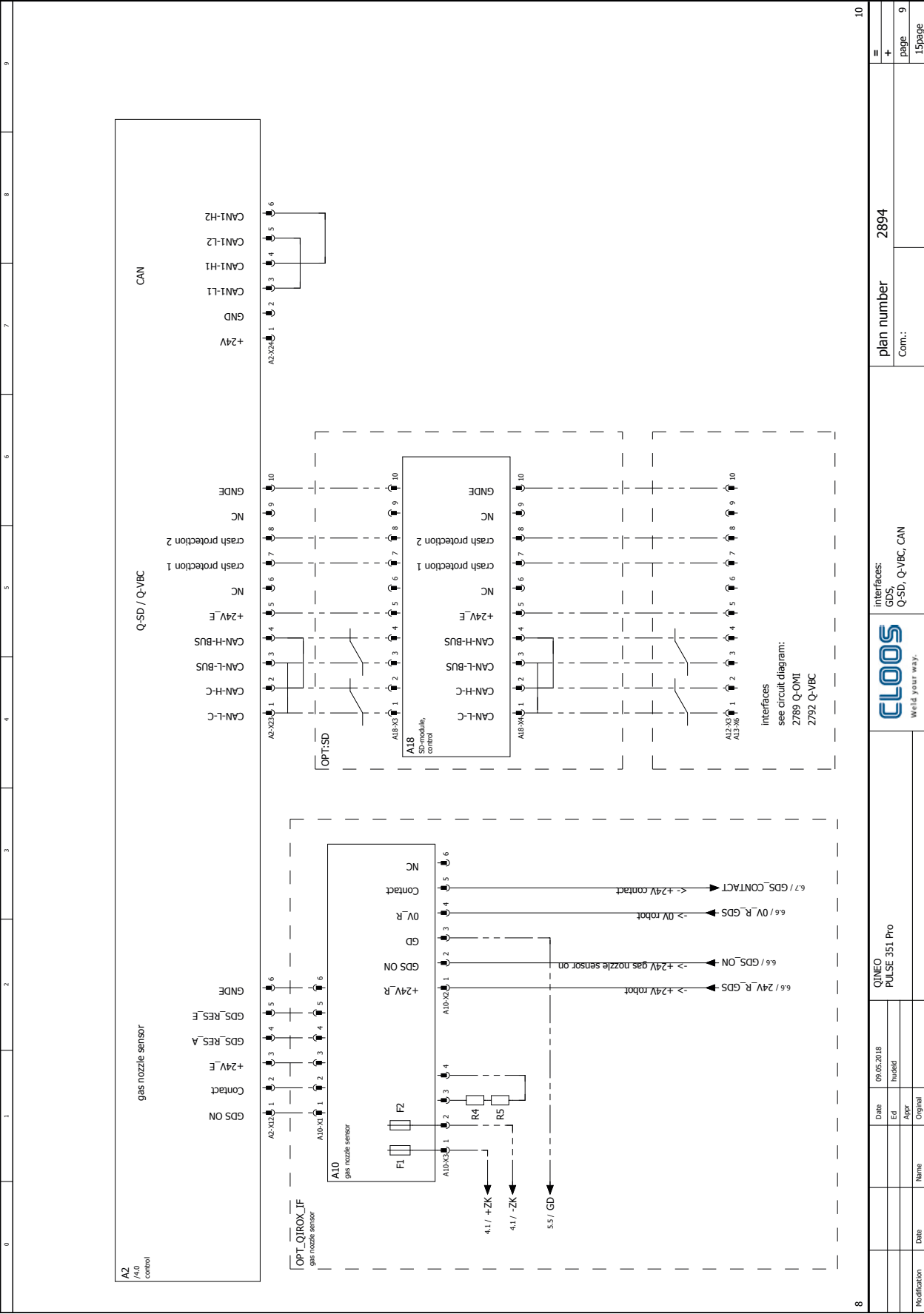
Circuit No. 2894 (PULSE Pro 351)
Compare the circuit number with the one of your machine



Circuit No. 2894 (PULSE Pro 351)
Compare the circuit number with the one of your machine



7	QINEO PULSE 351 Pro				Interfaces: tandem, seam tracking		plan number 2894	9
Modification		Date	Name	Original	Com.:		page 8	15page
		24.01.2018	Ed	huddell				
			Appr					
			Original					



Circuit No. 2894 (PULSE Pro 351)
Compare the circuit number with the one of your machine

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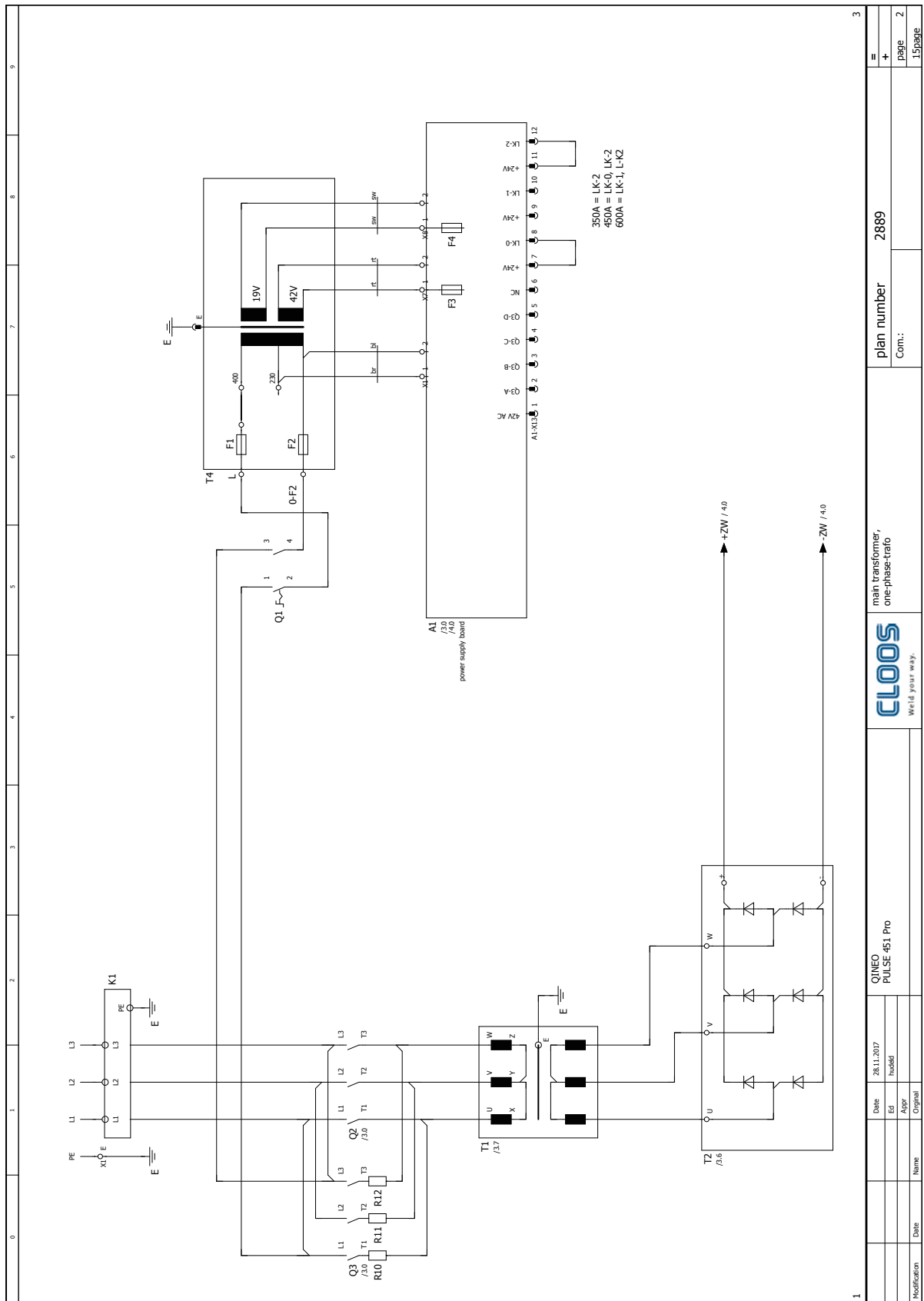
Electrical parts list - Circuit No. 2894 (PULSE Pro 351)

Pos.	Part number	Designation
A1	0033252710	Qineo Pulse power supply board Rev.1.0
A1-F3	0016020130	fuse 5x20mm, T6,3A
A1-F4	0016020190	fuse 5x20 4A T
A1-X2	0011043110	10pol. housing for bushes MICRO MNL
A1-X2	0011043100	bush MICRO MNL 24-20AWG
A1-X4	0011042904	4pol. housing for bushes Universal MNL
A1-X4	0011042900	bush Universal 20-14AWG
A1-X9	0011043004	4pol. housing for bushes Mini Universal MNL
A1-X9	0011043000	bush Mini Universal 20-16AWG
A1-X11	0011043006	6pol. housing for bushes Mini Universal MNL
A1-X11	0011043000	bush Mini Universal 20-16AWG
A1-X13	0011043012	12pol. housing for bushes Mini Universal MNL
A1-X13	0011043000	bush Mini Universal 20-16AWG
A2	0033100300	Qineo Pulse 350/450, control
A2-X3	0011043006	6pol. housing for bushes Mini Universal MNL
A2-X3	0011043000	bush Mini Universal 20-16AWG
A2-X6	0011043106	6pol. housing for bushes MICRO MNL
A2-X6	0011043100	bush MICRO MNL 24-20AWG
A2-X8	0011043012	12pol. housing for bushes Mini Universal MNL
A2-X8	0011043000	bush Mini Universal 20-16AWG
A2-X9	0011043110	10pol. housing for bushes MICRO MNL
A2-X9	0011043100	bush MICRO MNL 24-20AWG
A2-X14	0011036714	bushes housing 4pol., 2,54mm
A2-X14	0011036715	crimp contact
A2-X15	0011043106	6pol. housing for bushes MICRO MNL
A2-X15	0011043100	bush MICRO MNL 24-20AWG
A2-X18	0011043116	16pol. housing for bushes MICRO MNL
A2-X18	0011043100	bush MICRO MNL 24-20AWG
A2-X21	0011043116	16pol. housing for bushes MICRO MNL
A2-X21	0011043100	bush MICRO MNL 24-20AWG
A2-X22	0011043006	6pol. housing for bushes Mini Universal MNL
A2-X22	0011043000	bush Mini Universal 20-16AWG
A2-X23	0011043110	10pol. housing for bushes MICRO MNL
A2-X23	0011043100	bush MICRO MNL 24-20AWG
A2-X24	0011043106	6pol. housing for bushes MICRO MNL
A2-X24	0011043100	bush MICRO MNL 24-20AWG
A2-X26	0011043110	10pol. housing for bushes MICRO MNL
A2-X26	0011043100	bush MICRO MNL 24-20AWG
A2-X31	0011043110	10pol. housing for bushes MICRO MNL
A2-X31	0011043100	bush MICRO MNL 24-20AWG
B1	0028090304	current sensor 300 A
B1-W1	0038133200	cable current sensor 560mm
B1-X1	0011036714	bushes housing 4pol., 2,54mm
B1-X1	0011036715	crimp contact
C1	0021020205	capacitor 10nF 630V
C2	0021020205	capacitor 10nF 630V
C4	0021011312	capacitor axial 0,1uF/1000V
C5	0028090751	DS24B33+, 4kbit EEPROM serial (cable harness chip)
K1	0033352310	Qineo Pulse 350/450 mains-filter
M1	0022041630	fan 110W, straight mounting, ball bearing
M1	alternativ	
M1	0022041620	fan 110W, mounting 90°
M2	0023033800	pump MTP-600 HP EPDM 230V/50-60HZ
OPT:SD	0831058300	installations kit Q-SD
OPT:SD-A2-X23	0011043110	10pol. housing for bushes MICRO MNL
OPT:SD-A2-X23	0011043100	bush MICRO MNL 24-20AWG
OPT:SD-A18	0033058300	Qineo SD-module
OPT:SD-A18-X3	0011043110	10pol. housing for bushes MICRO MNL
OPT:SD-A18-X3	0011043100	bush MICRO MNL 24-20AWG
OPT:SD-A18-X4	0011043110	10pol. housing for bushes MICRO MNL
OPT:SD-A18-X4	0011043100	bush MICRO MNL 24-20AWG
OPT_PER-CAN	0890040100	QINEO Pro, installations kit periphery plug connector/CAN
OPT_PER-CAN-1X70	0010092511	plug-housing straight HAN3A/7D/STAF6

OPT PER-CAN-1X70	0010092514	pin insert 12pol.
OPT PER-CAN-1X70	0010091804	crimp contact pin 0,5 HAN D
OPT PER-CAN-1X70	0010092524	coding pin Han Q12
OPT PER-CAN-1X70	0035036500	screwed cable gland M20
OPT PER-CAN-A2-X16	0011043116	16pol. housing for bushes MICRO MNL
OPT PER-CAN-A2-X16	0011043100	bush MICRO MNL 24-20AWG
OPT PER-CAN-X70	0010092510	Bulkhead mounted housings HAN3A/7D, Metall
OPT PER-CAN-X70	0010092515	socket insert 12pol.
OPT PER-CAN-X70	0010091830	crimp contact bush 0,5 HAN D
OPT PER-CAN-X70	0010092524	coding pin Han Q12
OPT QIROX IF	0890040000	QINEO Pro, QIROX-Interface
OPT QIROX IF-A2-X12	0011043106	6pol. housing for bushes MICRO MNL
OPT QIROX IF-A2-X12	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-A2-X16	0011043116	16pol. housing for bushes MICRO MNL
OPT QIROX IF-A2-X16	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-A2-X19	0010110325	female connector 10pol.
OPT QIROX IF-A2-X19	0010110335	strain relief 10pol.
OPT QIROX IF-A2-X19	0010110320	interlock right
OPT QIROX IF-A2-X19	0010110321	interlock left
OPT QIROX IF-A9	0033057000	seam tracking GLC 403/603 Quinto
OPT QIROX IF-A9-X1	0011041400	bush strip 8pol.
OPT QIROX IF-A9-X3	0010110325	female connector 10pol.
OPT QIROX IF-A9-X3	0010110335	strain relief 10pol.
OPT QIROX IF-A9-X3	0010110320	interlock right
OPT QIROX IF-A9-X3	0010110321	interlock left
OPT QIROX IF-A10	0033059210	Qineo control gas nozzle sensor FS
OPT QIROX IF-A10-F1	0016020191	fuse 5x20 3,15A T
OPT QIROX IF-A10-F2	0016020191	fuse 5x20 3,15A T
OPT QIROX IF-A10-X1	0011043106	6pol. housing for bushes MICRO MNL
OPT QIROX IF-A10-X1	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-A10-X2	0011043006	6pol. housing for bushes Mini Universal MNL
OPT QIROX IF-A10-X2	0011043000	bush Mini Universal 20-16AWG
OPT QIROX IF-A10-X3	0011043004	4pol. housing for bushes Mini Universal MNL
OPT QIROX IF-A10-X3	0011043000	bush Mini Universal 20-16AWG
OPT QIROX IF-A17	0033059500	Qineo CAN potential separation V3
OPT QIROX IF-A17-X1	0011043116	16pol. housing for bushes MICRO MNL
OPT QIROX IF-A17-X1	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-A17-X2	0011043112	12pol. housing for bushes MICRO MNL
OPT QIROX IF-A17-X2	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-A17-X3	0011043104	4pol. housing for bushes MICRO MNL
OPT QIROX IF-A17-X3	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-R4	0030044000	resistor 39 Ohm 100W
OPT QIROX IF-R5	0030044000	resistor 39 Ohm 100W
OPT QIROX IF-X7	0010110071	Bulkhead mounted housings HAN6E
OPT QIROX IF-X7	0010091315	socket insert HAN24DD
OPT QIROX IF-X7	0010091830	crimp contact bush 0,5 HAN D
OPT QIROX IF-X7	0010091808	pilot bushing
OPT RPU	0890050710	QINEO Pro, installations kit RPU)
OPT RPU-A2-X6	0011043106	6pol. housing for bushes MICRO MNL
OPT RPU-A2-X6	0011043100	bush MICRO MNL 24-20AWG
OPT RPU-P1	0020030130	LED green, 24V
OPT RPU-R3	0027092100	ferrite core, AD17,5 ID9,5 L12,7
OPT RPU-X30	0010092510	Bulkhead mounted housings HAN3A/7D, Metall
OPT RPU-X30	0010092515	socket insert 12pol.
OPT RPU-X30	0010091830	crimp contact bush 0,5 HAN D
OPT RPU-X30	0010092524	coding pin Han Q12
OPT RPU-1X30	0010092511	plug-housing straight HAN3A/7D/STAF6
OPT RPU-1X30	0010092514	pin insert 12pol.
OPT RPU-1X30	0010091805	crimp contact pin 0,14-0,37 HAN D
OPT RPU-1X30	0010091804	crimp contact pin 0,5 HAN D
OPT RPU-1X30	0010092524	coding pin Han Q12
OPT RPU-1X30	0035036512	reducer M20-M12

OPT_RPU-1X30	0035036600	screwed cable gland M12
OPT_TD	0890040200	QN Pro, installations kit tandem
OPT_TD-A2-X17	0010110325	female connector 10pol.
OPT_TD-A2-X17	0010110335	strain relief 10pol.
OPT_TD-A2-X17	0010110320	interlock right
OPT_TD-A2-X17	0010110321	interlock left
OPT_TD-A8	0033059600	Qineo Impulssynchronisation control
OPT_TD-A8-X1	0010110325	female connector 10pol.
OPT_TD-A8-X1	0010110335	strain relief 10pol.
OPT_TD-A8-X1	0010110320	interlock right
OPT_TD-A8-X1	0010110321	interlock left
OPT_TD-A8-X2	0010110288	bush strip 6pol.
OPT_TD-A9-X2	0010110288	bush strip 6pol.
OPT_TD-X32	0010091301	Bulkhead mounted housings 15D/10A/STAF14
OPT_TD-X32	0010091829	socket insert 15D
OPT_TD-X32	0010091830	crimp contact bush 0,5 HAN D
Q1	0003261005	Qineo main switch
Q2	0012021350	power contactor
Q3	0012021350	power contactor
R1	0802883500	choke
R10	0030040195	resistor 2,2 OHM 100W
R11	0030040195	resistor 2,2 OHM 100W
R12	0030040195	resistor 2,2 OHM 100W
T1	0831351001	Qineo Pulse 350, main transformer 400V
T1-F7	0016062000	temperature sensor 160°+/-10° NC
T1-F8	0016064300	temperature sensor 70°+/-5° NO
T2	0055613500	rectifier S350
T3	0055623500	Qineo Pulse 350, power part overall
T3-A1	0033100400	Qineo Pulse driver left
T3-A1-X1	0011043110	10pol. housing for bushes MICRO MNL
T3-A1-X1	0011043100	bush MICRO MNL 24-20AWG
T3-A1-X2	0011043006	6pol. housing for bushes Mini Universal MNL
T3-A1-X2	0011043000	bush Mini Universal 20-16AWG
T3-B1	0016062200	temperature sensor 80°+/-5° O
T3-C1	0021011289	ELKO 10000uF 100V
T3-K1	0028082500	MOSFET 140A/200V
T3-R1	0030040401	resistor 470 OHM 25W
T3-R2	0030040402	resistor 150 OHM 50W
T3-R3	0029063400	diode 2x60A/400V
T4	0027054200	Qineo one-phase-trafo 400V
T4-F1	0016020187	fuse 6,3x32mm, T4A, 500V
T4-F2	0016020187	fuse 6,3x32mm, T4A, 500V
X1	0033048410	PE/N- rail
X2	0073037000	panel jack 50/70mm² TM
X3	0073037000	panel jack 50/70mm² TM
X4	0010091510	Sense- connection
X8	0010110071	Bulkhead mounted housings HAN6E
X8	0010091315	socket insert HAN24DD
X8	0010091810	crimp contact bush 1,0 HAN D
X8	0010091830	crimp contact bush 0,5 HAN D
X10	0035020310	housing for flat-plug, bush 6pol.
X10	0035020031	blade receptacle 6,3mm
X11	0035020310	housing for flat-plug, bush 6pol.
X11	0035020031	blade receptacle 6,3mm
X12	0035020091	housing for blade receptacle 4pol.
X12	0035020031	blade receptacle 6,3mm
X13	0035020022	flat-plug 6,3mm
1X10	0033048410	PE/N- rail
1X11	0035020311	housing for flat-plug, pin 6pol.
1X11	0035020041	flat-plug 6,3mm
1X12	0035020042	housing for flat-plug 4pol.
1X12	0035020041	flat-plug 6,3mm

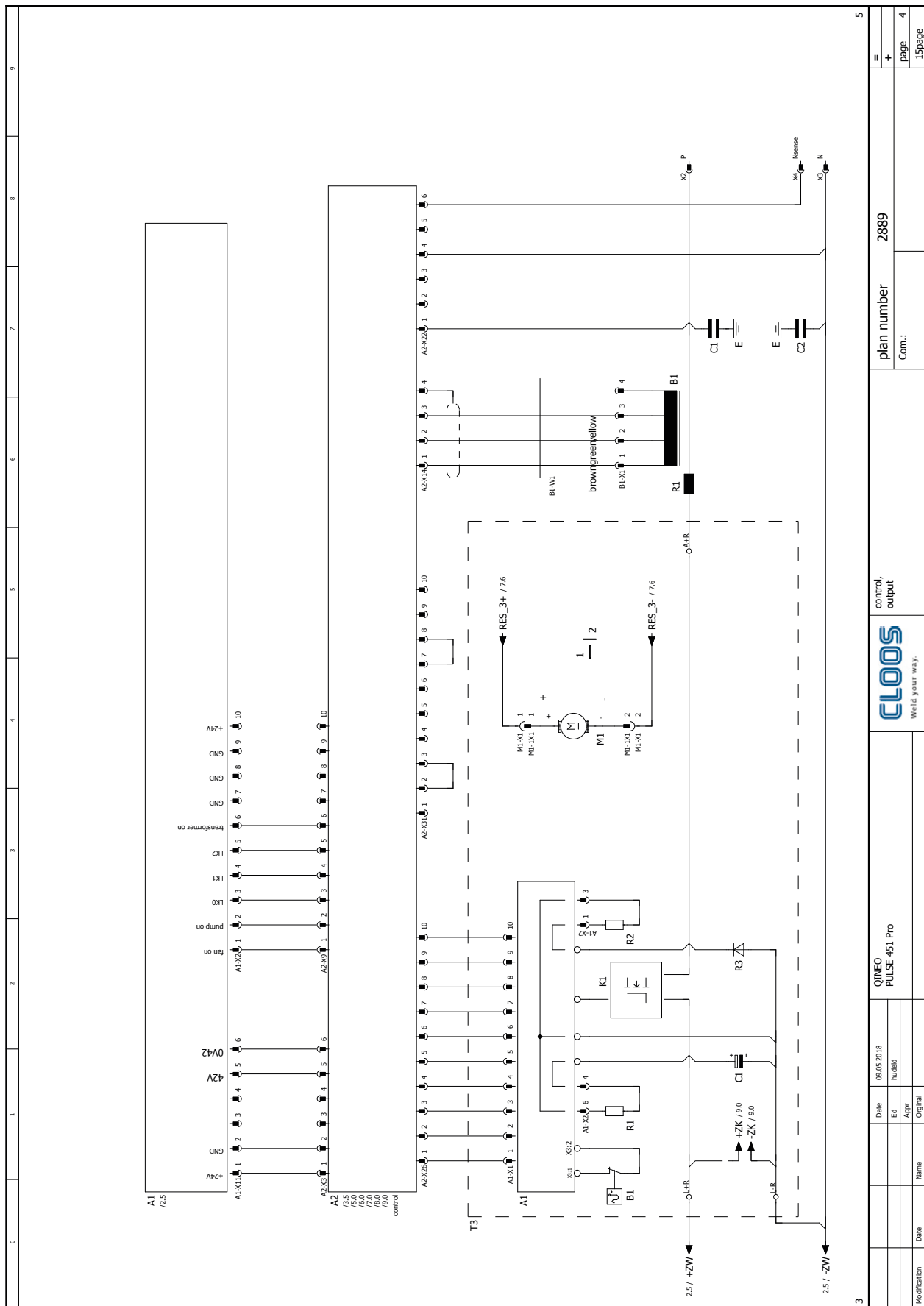
PULSE Pro 451 (Circuit No. 2889)



Circuit No. 2889 (PULSE Pro 451)
Compare the circuit number with the one of your machine

Circuit No. 2889 (PULSE Pro 451)

Compare the circuit number with the one of your machine



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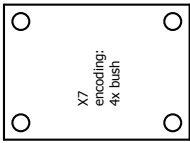
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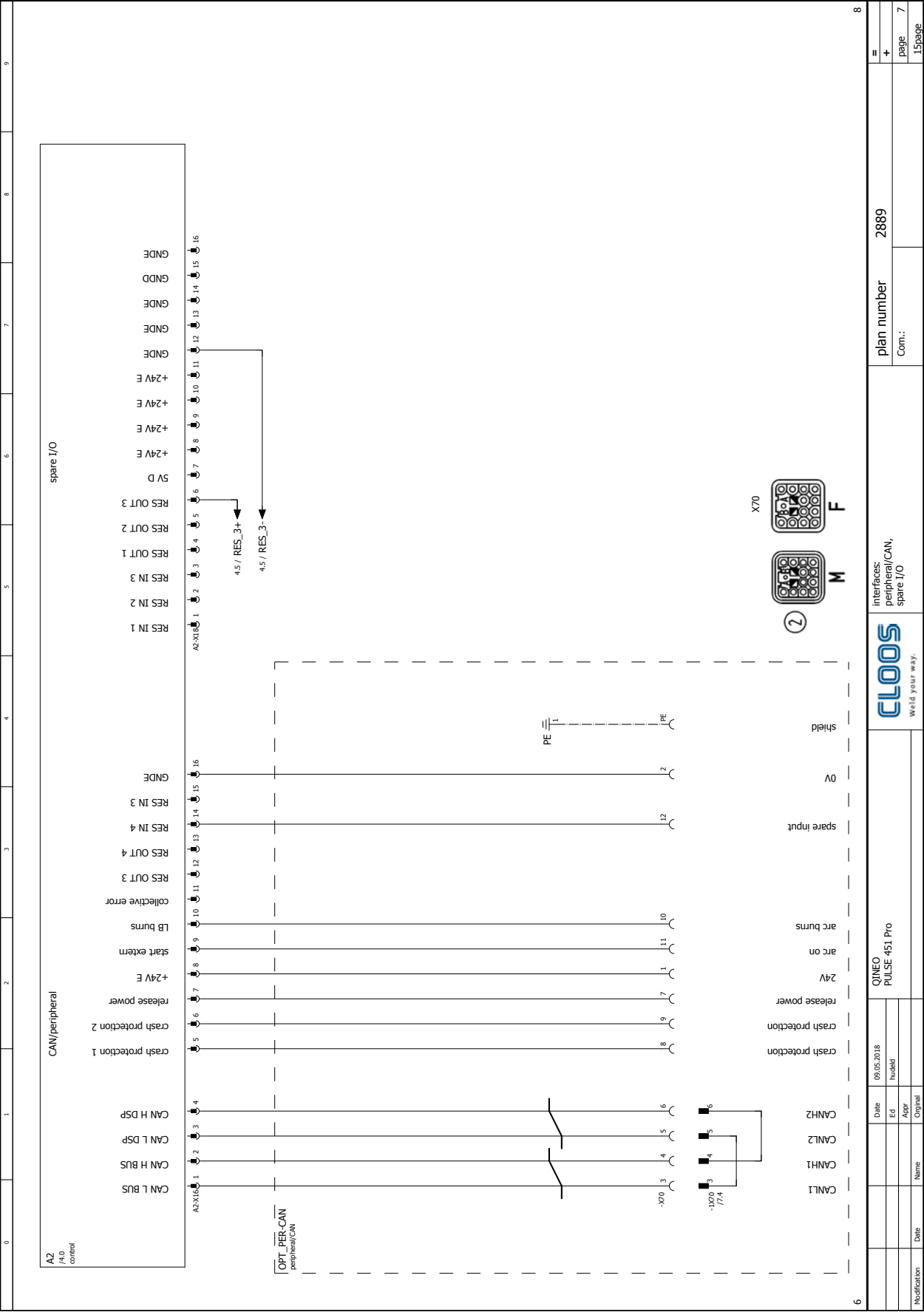
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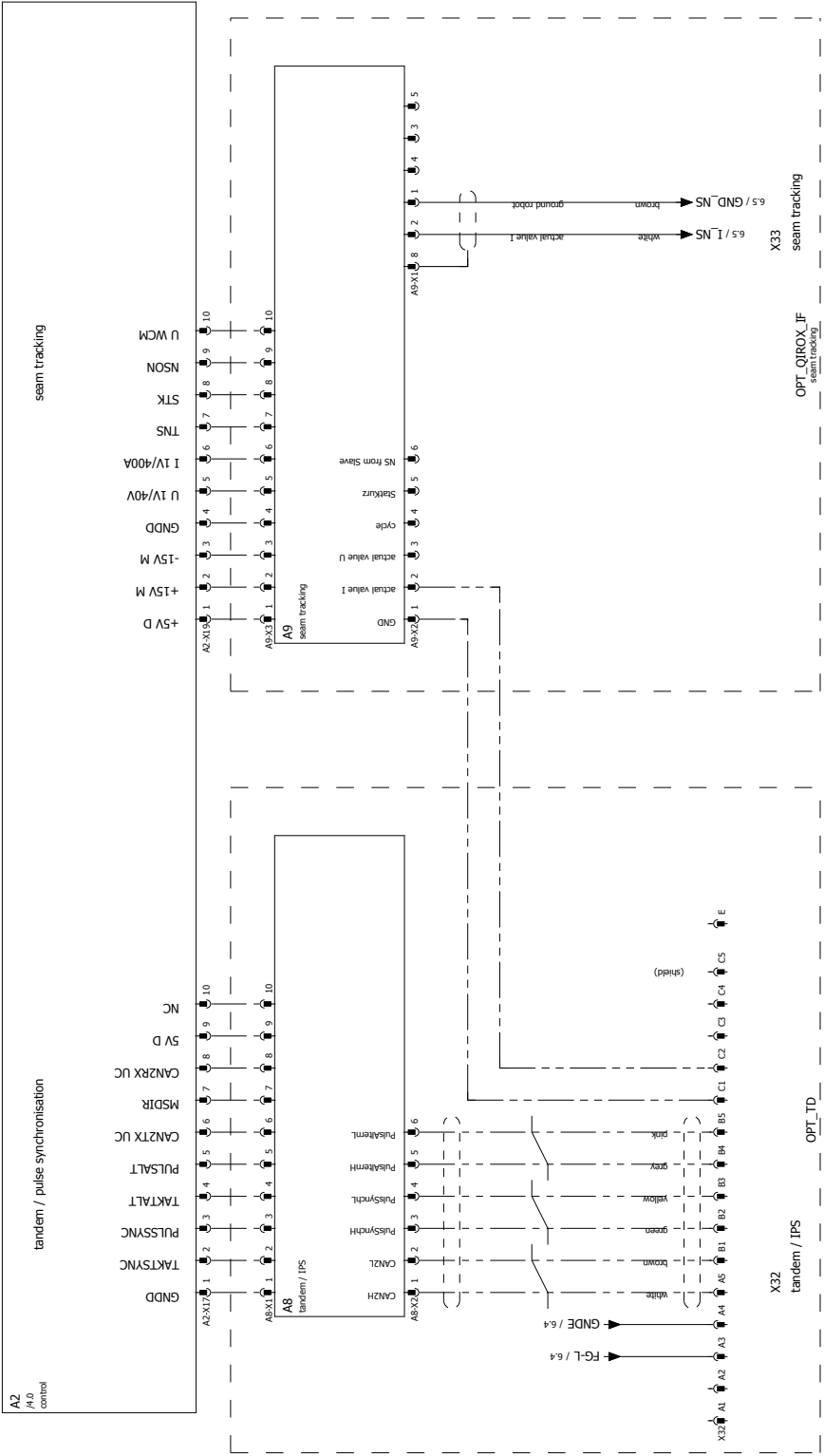
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Circuit No. 2889 (PULSE Pro 451)
Compare the circuit number with the one of your machine

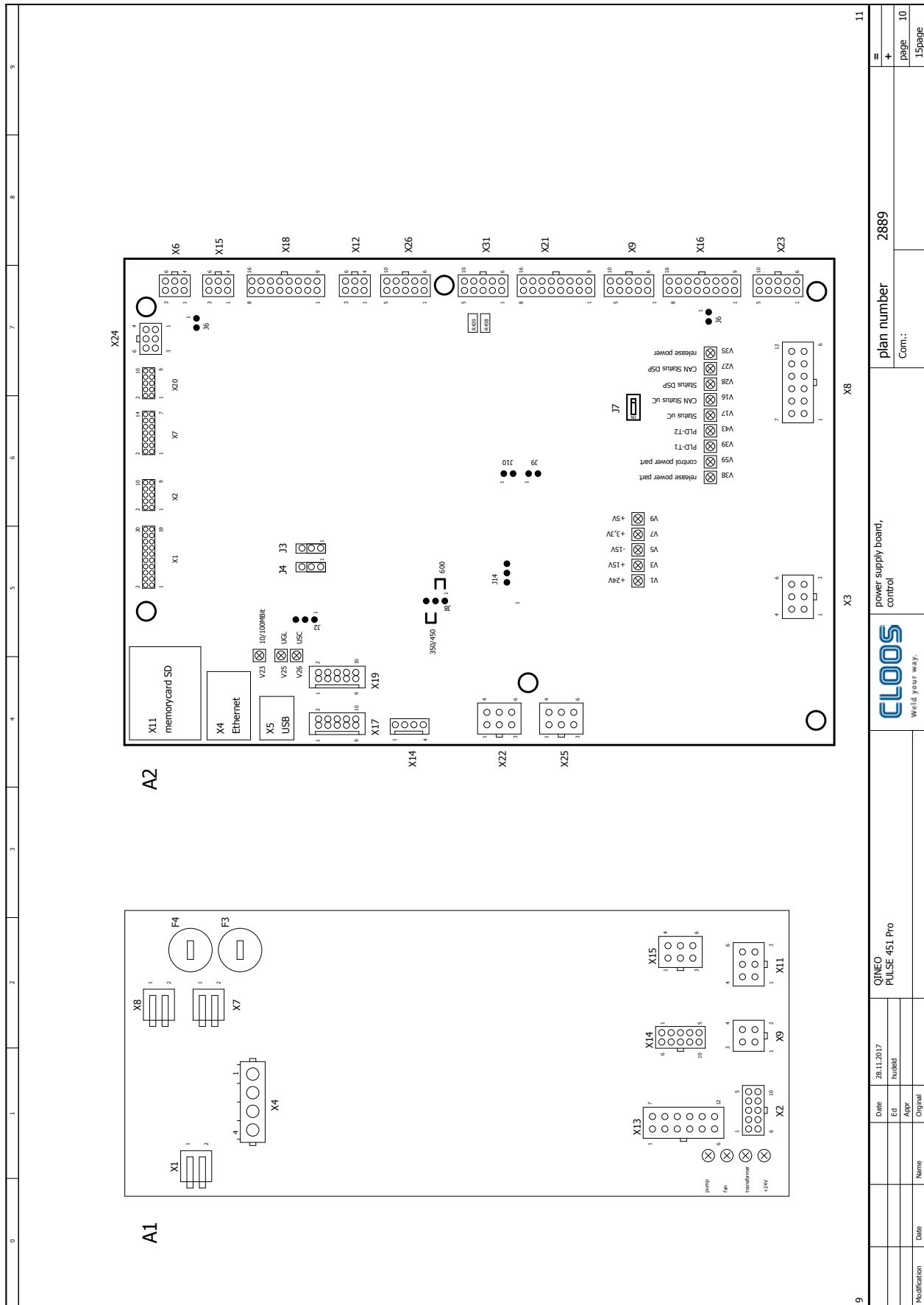


Circuit No. 2889 (PULSE Pro 451)



Circuit No. 2889 (PULSE Pro 451)

Compare the circuit number with the one of your machine



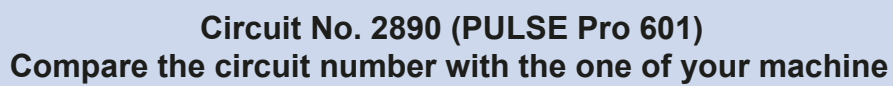
Electrical parts list - Circuit No. 2889 (PULSE Pro 451)

Pos.	Part number	Designation
A1	0033252710	Qineo Pulse power supply board Rev.1.0
A1-F3	0016020130	fuse 5x20mm, T6,3A
A1-F4	0016020190	fuse 5x20 4A T
A1-X2	0011043110	10pol. housing for bushes MICRO MNL
A1-X2	0011043100	bush MICRO MNL 24-20AWG
A1-X4	0011042904	4pol. housing for bushes Universal MNL
A1-X4	0011042900	bush Universal 20-14AWG
A1-X9	0011043004	4pol. housing for bushes Mini Universal MNL
A1-X9	0011043000	bush Mini Universal 20-16AWG
A1-X11	0011043006	6pol. housing for bushes Mini Universal MNL
A1-X11	0011043000	bush Mini Universal 20-16AWG
A1-X13	0011043012	12pol. housing for bushes Mini Universal MNL
A1-X13	0011043000	bush Mini Universal 20-16AWG
A2	0033100300	Qineo Pulse 350/450, control
A2-X3	0011043006	6pol. housing for bushes Mini Universal MNL
A2-X3	0011043000	bush Mini Universal 20-16AWG
A2-X6	0011043106	6pol. housing for bushes MICRO MNL
A2-X6	0011043100	bush MICRO MNL 24-20AWG
A2-X8	0011043012	12pol. housing for bushes Mini Universal MNL
A2-X8	0011043000	bush Mini Universal 20-16AWG
A2-X9	0011043110	10pol. housing for bushes MICRO MNL
A2-X9	0011043100	bush MICRO MNL 24-20AWG
A2-X14	0011036714	bushes housing 4pol., 2,54mm
A2-X14	0011036715	crimp contact
A2-X15	0011043106	6pol. housing for bushes MICRO MNL
A2-X15	0011043100	bush MICRO MNL 24-20AWG
A2-X18	0011043116	16pol. housing for bushes MICRO MNL
A2-X18	0011043100	bush MICRO MNL 24-20AWG
A2-X21	0011043116	16pol. housing for bushes MICRO MNL
A2-X21	0011043100	bush MICRO MNL 24-20AWG
A2-X22	0011043006	6pol. housing for bushes Mini Universal MNL
A2-X22	0011043000	bush Mini Universal 20-16AWG
A2-X23	0011043110	10pol. housing for bushes MICRO MNL
A2-X23	0011043100	bush MICRO MNL 24-20AWG
A2-X24	0011043106	6pol. housing for bushes MICRO MNL
A2-X24	0011043100	bush MICRO MNL 24-20AWG
A2-X26	0011043110	10pol. housing for bushes MICRO MNL
A2-X26	0011043100	bush MICRO MNL 24-20AWG
A2-X31	0011043110	10pol. housing for bushes MICRO MNL
A2-X31	0011043100	bush MICRO MNL 24-20AWG
B1	0028090304	current sensor 300 A
B1-W1	0038133200	cable current sensor 560mm
B1-X1	0011036714	bushes housing 4pol., 2,54mm
B1-X1	0011036715	crimp contact
C1	0021020205	capacitor 10nF 630V
C2	0021020205	capacitor 10nF 630V
C4	0021011312	capacitor axial 0,1uF/1000V
C5	0028090751	DS24B33+, 4kbit EEPROM serial (cable harness chip)
K1	0033352310	Qineo Pulse 350/450 mains-filter
M1	0022041630	fan 110W, straight mounting, ball bearing
M1	alternativ	
M1	0022041620	fan 110W, mounting 90°
M2	0023033800	pump MTP-600 HP EPDM 230V/50-60HZ
OPT:SD	0831058300	installations kit Q-SD
OPT:SD-A2-X23	0011043110	10pol. housing for bushes MICRO MNL
OPT:SD-A2-X23	0011043100	bush MICRO MNL 24-20AWG
OPT:SD-A18	0033058300	Qineo SD-module
OPT:SD-A18-X3	0011043110	10pol. housing for bushes MICRO MNL
OPT:SD-A18-X3	0011043100	bush MICRO MNL 24-20AWG
OPT:SD-A18-X4	0011043110	10pol. housing for bushes MICRO MNL
OPT:SD-A18-X4	0011043100	bush MICRO MNL 24-20AWG
OPT_PER-CAN	0890040100	QINEO Pro, installations kit periphery plug connector/CAN

OPT PER-CAN-1X70	0010092511	plug-housing straight HAN3A/7D/STAF6
OPT PER-CAN-1X70	0010092514	pin insert 12pol.
OPT PER-CAN-1X70	0010091804	crimp contact pin 0,5 HAN D
OPT PER-CAN-1X70	0010092524	coding pin Han Q12
OPT PER-CAN-1X70	0035036500	screwed cable gland M20
OPT PER-CAN-A2-X16	0011043116	16pol. housing for bushes MICRO MNL
OPT PER-CAN-A2-X16	0011043100	bush MICRO MNL 24-20AWG
OPT PER-CAN-X70	0010092510	Bulkhead mounted housings HAN3A/7D, Metall
OPT PER-CAN-X70	0010092515	socket insert 12pol.
OPT PER-CAN-X70	0010091830	crimp contact bush 0,5 HAN D
OPT PER-CAN-X70	0010092524	coding pin Han Q12
OPT QIROX IF	0890040000	QINEO Pro, QIROX-Interface
OPT QIROX IF-A2-X12	0011043106	6pol. housing for bushes MICRO MNL
OPT QIROX IF-A2-X12	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-A2-X16	0011043116	16pol. housing for bushes MICRO MNL
OPT QIROX IF-A2-X16	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-A2-X19	0010110325	female connector 10pol.
OPT QIROX IF-A2-X19	0010110335	strain relief 10pol.
OPT QIROX IF-A2-X19	0010110320	interlock right
OPT QIROX IF-A2-X19	0010110321	interlock left
OPT QIROX IF-A9	0033057000	seam tracking GLC 403/603 Quinto
OPT QIROX IF-A9-X1	0011041400	bush strip 8pol.
OPT QIROX IF-A9-X3	0010110325	female connector 10pol.
OPT QIROX IF-A9-X3	0010110335	strain relief 10pol.
OPT QIROX IF-A9-X3	0010110320	interlock right
OPT QIROX IF-A9-X3	0010110321	interlock left
OPT QIROX IF-A10	0033059210	Qineo control gas nozzle sensor FS
OPT QIROX IF-A10-F1	0016020191	fuse 5x20 3,15A T
OPT QIROX IF-A10-F2	0016020191	fuse 5x20 3,15A T
OPT QIROX IF-A10-X1	0011043106	6pol. housing for bushes MICRO MNL
OPT QIROX IF-A10-X1	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-A10-X2	0011043006	6pol. housing for bushes Mini Universal MNL
OPT QIROX IF-A10-X2	0011043000	bush Mini Universal 20-16AWG
OPT QIROX IF-A10-X3	0011043004	4pol. housing for bushes Mini Universal MNL
OPT QIROX IF-A10-X3	0011043000	bush Mini Universal 20-16AWG
OPT QIROX IF-A17	0033059500	Qineo CAN potential separation V3
OPT QIROX IF-A17-X1	0011043116	16pol. housing for bushes MICRO MNL
OPT QIROX IF-A17-X1	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-A17-X2	0011043112	12pol. housing for bushes MICRO MNL
OPT QIROX IF-A17-X2	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-A17-X3	0011043104	4pol. housing for bushes MICRO MNL
OPT QIROX IF-A17-X3	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-R4	0030044000	resistor 39 Ohm 100W
OPT QIROX IF-R5	0030044000	resistor 39 Ohm 100W
OPT QIROX IF-X7	0010110071	Bulkhead mounted housings HAN6E
OPT QIROX IF-X7	0010091315	socket insert HAN24DD
OPT QIROX IF-X7	0010091830	crimp contact bush 0,5 HAN D
OPT QIROX IF-X7	0010091808	pilot bushing
OPT RPU	0890050710	QINEO Pro, installations kit RPU)
OPT RPU-A2-X6	0011043106	6pol. housing for bushes MICRO MNL
OPT RPU-A2-X6	0011043100	bush MICRO MNL 24-20AWG
OPT RPU-P1	0020030130	LED green, 24V
OPT RPU-R3	0027092100	ferrite core, AD17,5 ID9,5 L12,7
OPT RPU-X30	0010092510	Bulkhead mounted housings HAN3A/7D, Metall
OPT RPU-X30	0010092515	socket insert 12pol.
OPT RPU-X30	0010091830	crimp contact bush 0,5 HAN D
OPT RPU-X30	0010092524	coding pin Han Q12
OPT RPU-1X30	0010092511	plug-housing straight HAN3A/7D/STAF6
OPT RPU-1X30	0010092514	pin insert 12pol.
OPT RPU-1X30	0010091805	crimp contact pin 0,14-0,37 HAN D
OPT RPU-1X30	0010091804	crimp contact pin 0,5 HAN D
OPT RPU-1X30	0010092524	coding pin Han Q12
OPT RPU-1X30	0035036512	reducer M20-M12
OPT RPU-1X30	0035036600	screwed cable gland M12
OPT TD	0890040200	QN Pro, installations kit tandem

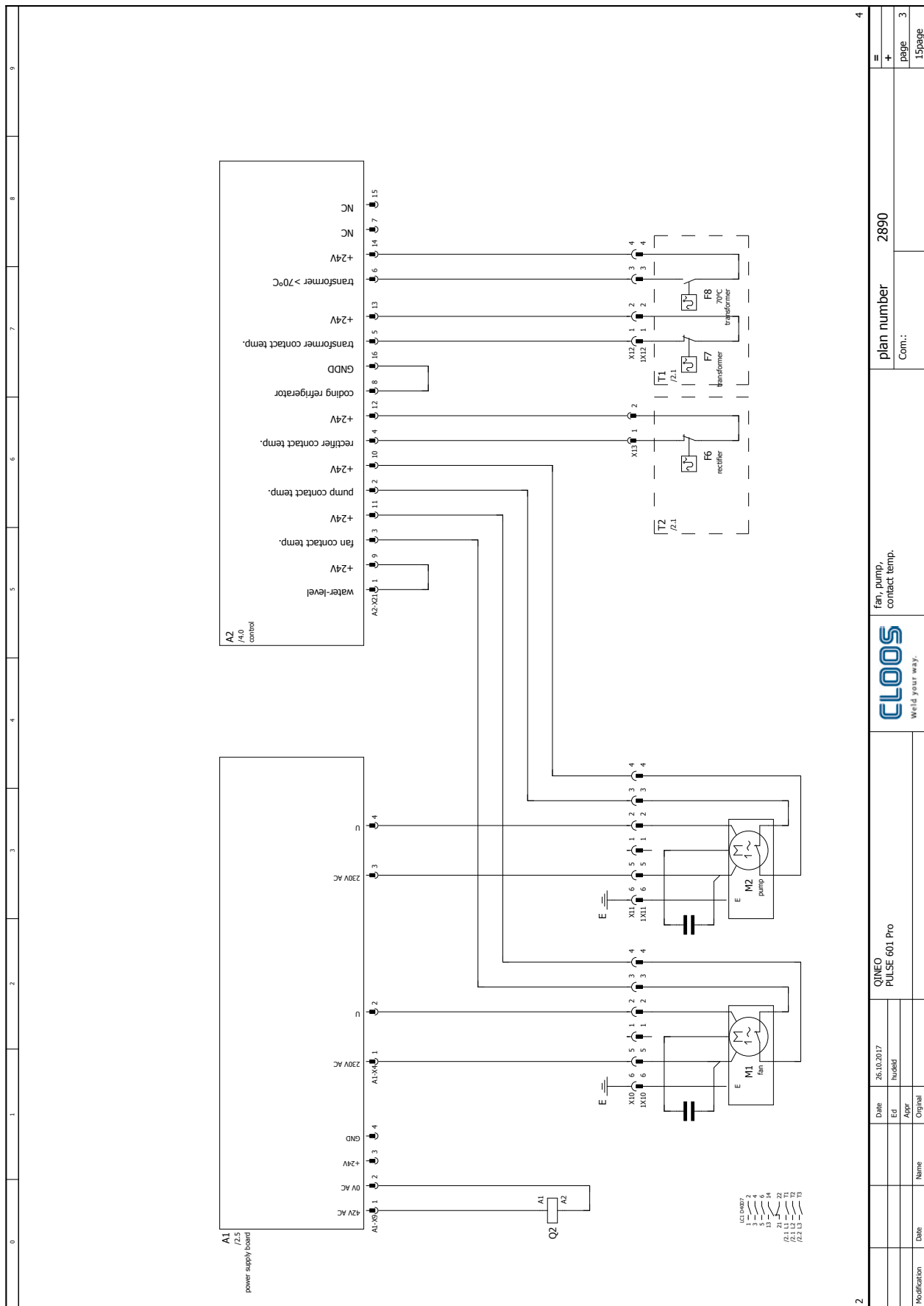
OPT_TD-A2-X17	0010110325	female connector 10pol.
OPT_TD-A2-X17	0010110335	strain relief 10pol.
OPT_TD-A2-X17	0010110320	interlock right
OPT_TD-A2-X17	0010110321	interlock left
OPT_TD-A8	0033059600	Qineo Impulssynchronisation control
OPT_TD-A8-X1	0010110325	female connector 10pol.
OPT_TD-A8-X1	0010110335	strain relief 10pol.
OPT_TD-A8-X1	0010110320	interlock right
OPT_TD-A8-X1	0010110321	interlock left
OPT_TD-A8-X2	0010110288	bush strip 6pol.
OPT_TD-A9-X2	0010110288	bush strip 6pol.
OPT_TD-X32	0010091301	Bulkhead mounted housings 15D/10A/STAF14
OPT_TD-X32	0010091829	socket insert 15D
OPT_TD-X32	0010091830	crimp contact bush 0,5 HAN D
Q1	0003261005	Qineo main switch
Q2	0012021350	power contactor
Q3	0012021350	power contactor
R1	0802883500	choke
R10	0030040195	resistor 2,2 OHM 100W
R11	0030040195	resistor 2,2 OHM 100W
R12	0030040195	resistor 2,2 OHM 100W
T1	0831451002	Qineo Pulse 450 main transformer 400V, with rectifier
T1-F7	0016062000	temperature sensor 160°+/-10° NC
T1-F8	0016064300	temperature sensor 70°+/-5° NO
T2	0055614500	rectifier S450
T3	0055624000	Qineo Pulse 450 power part Rev. 2
T3-A1	0033100420	Qineo Pulse 450 driver Rev. 2
T3-A1-X1	0011043110	10pol. housing for bushes MICRO MNL
T3-A1-X1	0011043100	bush MICRO MNL 24-20AWG
T3-A1-X2	0011043006	6pol. housing for bushes Mini Universal MNL
T3-A1-X2	0011043000	bush Mini Universal 20-16AWG
T3-B1	0016062200	temperature sensor 80°+/-5° O
T3-C1	0021011289	ELKO 10000uF 100V
T3-K1	0028082500	MOSFET 140A/200V
T3-M1	0022044500	fan 24V/DC, 4,3W, 80x80x32mm
T3-M1-1X1	0035020321	housing for flat-plug 2pol.
T3-M1-1X1	0035020041	flat-plug 6,3mm
T3-M1-X1	0035020301	2pol. housing for blade receptacle
T3-M1-X1	0035020031	blade receptacle 6,3mm
T3-R1	0030040401	resistor 470 OHM 25W
T3-R2	0030040402	resistor 150 OHM 50W
T3-R3	0029063400	diode 2x60A/400V
T4	0027054200	Qineo one-phase-trafo 400V
T4-F1	0016020187	fuse 6,3x32mm, T4A, 500V
T4-F2	0016020187	fuse 6,3x32mm, T4A, 500V
X1	0033048410	PE/N- rail
X2	0073037000	panel jack 50/70mm² TM
X3	0073037000	panel jack 50/70mm² TM
X4	0010091510	Sense- connection
X8	0010110071	Bulkhead mounted housings HAN6E
X8	0010091315	socket insert HAN24DD
X8	0010091810	crimp contact bush 1,0 HAN D
X8	0010091830	crimp contact bush 0,5 HAN D
X10	0035020310	housing for flat-plug, bush 6pol.
X10	0035020031	blade receptacle 6,3mm
X11	0035020310	housing for flat-plug, bush 6pol.
X11	0035020031	blade receptacle 6,3mm
X12	0035020091	housing for blade receptacle 4pol.
X12	0035020031	blade receptacle 6,3mm
X13	0035020022	flat-plug 6,3mm
1X10	0033048410	PE/N- rail
1X11	0035020311	housing for flat-plug, pin 6pol.
1X11	0035020041	flat-plug 6,3mm
1X12	0035020042	housing for flat-plug 4pol.
1X12	0035020041	flat-plug 6,3mm

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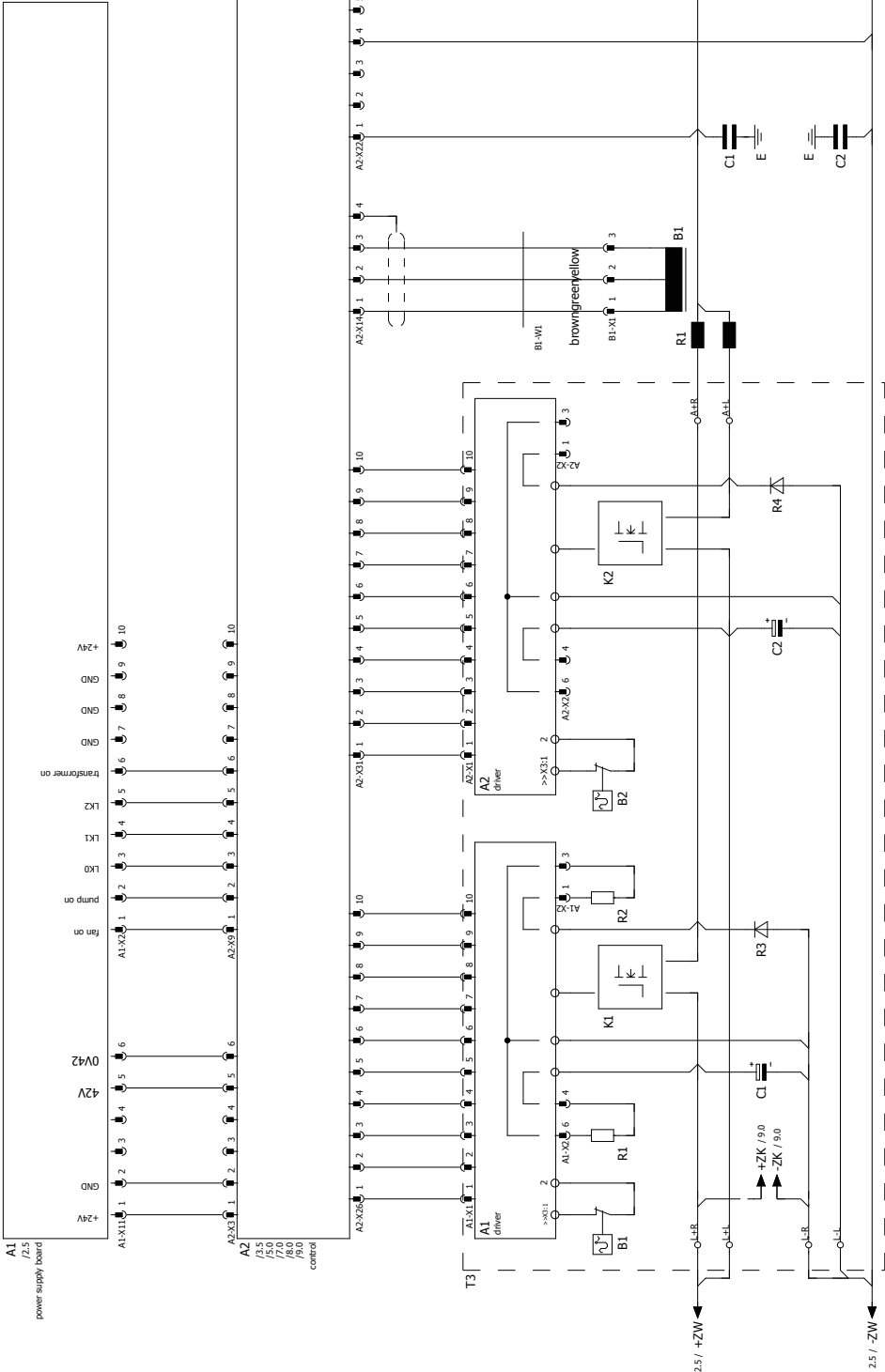


Circuit No. 2890 (PULSE Pro 601)

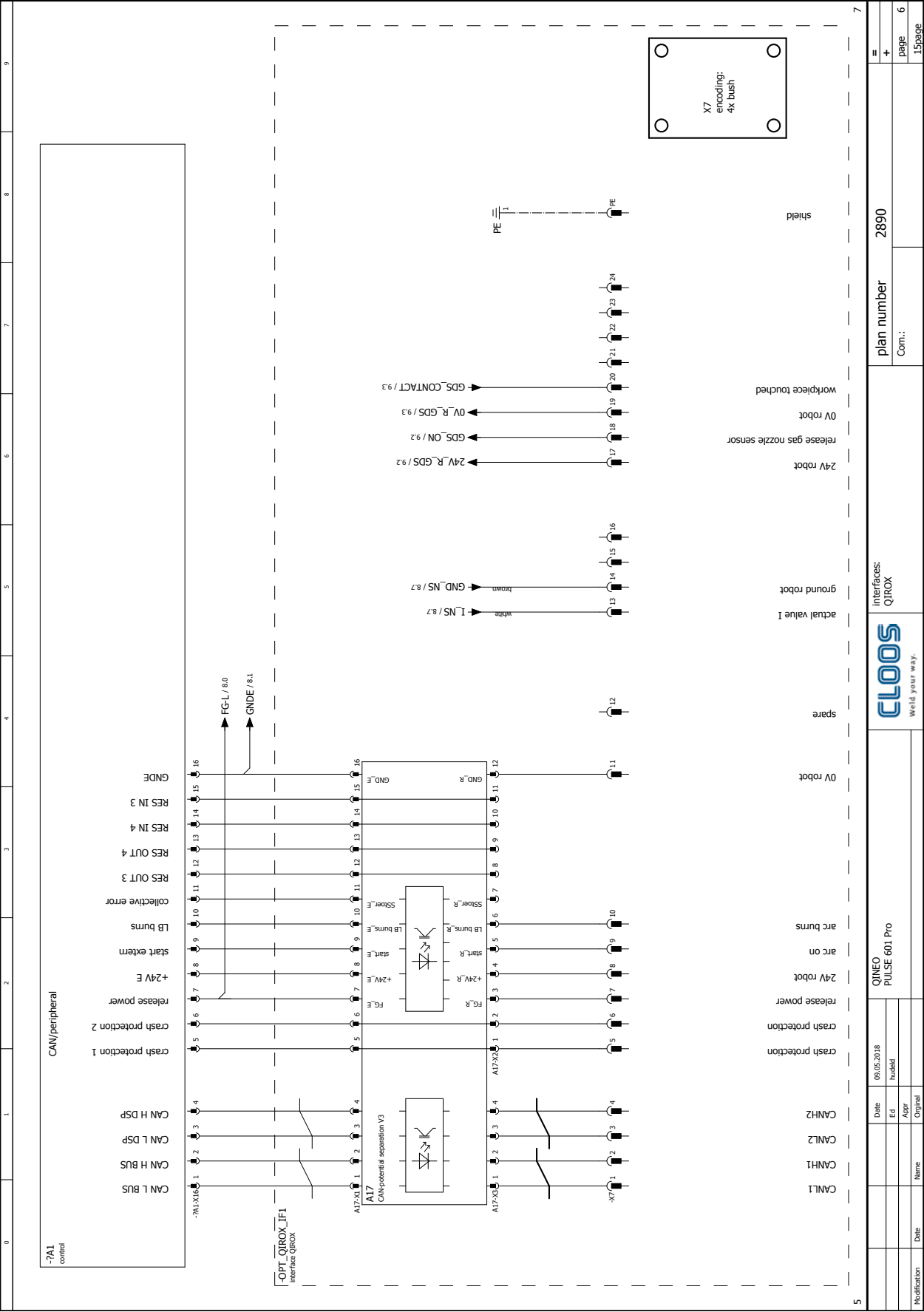
Compare the circuit number with the one of your machine



Circuit No. 2890 (PULSE Pro 601)



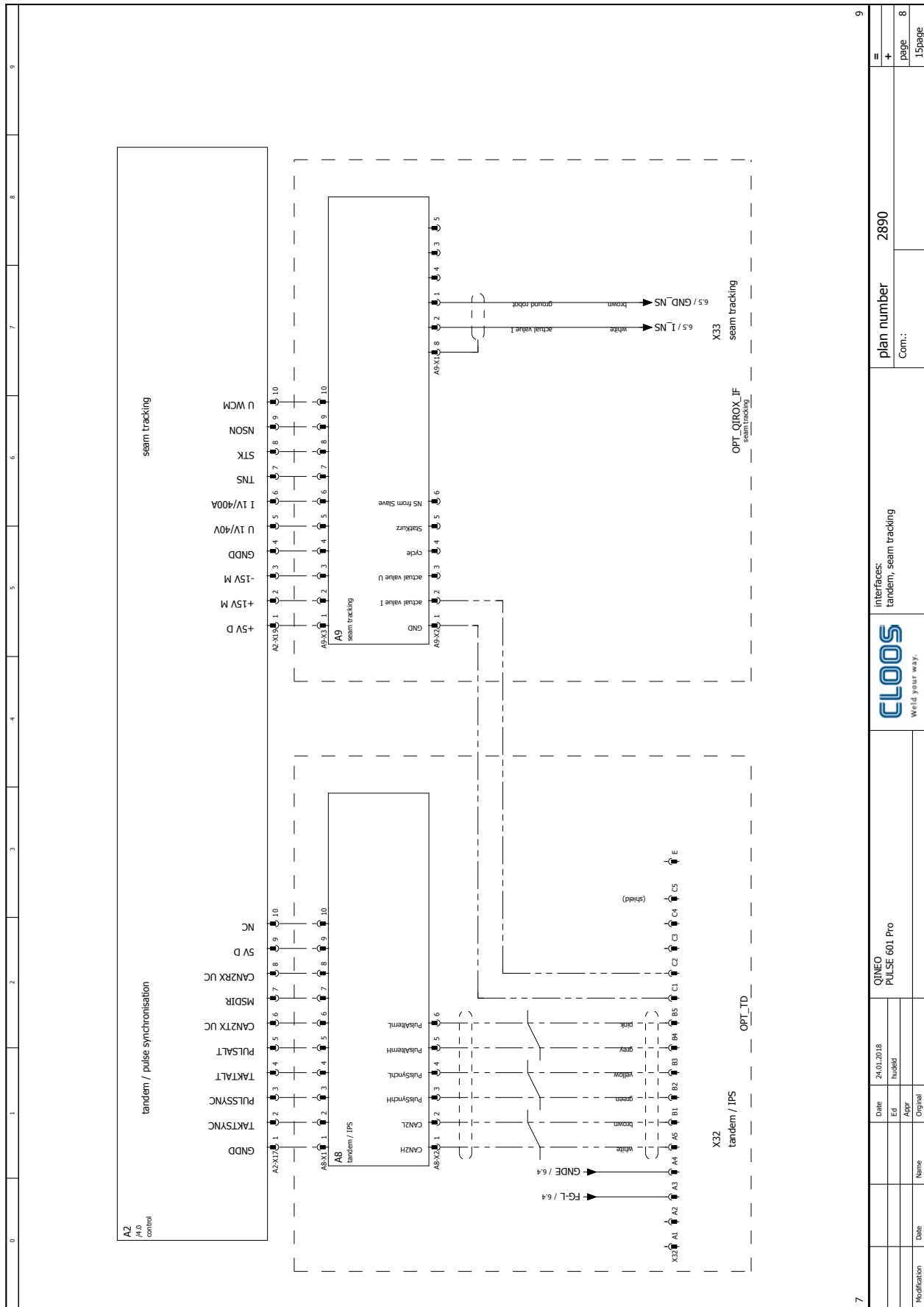
Circuit No. 2890 (PULSE Pro 601) Compare the circuit number with the one of your machine



Modification		Name		Date		Original		Appr		Ed		Date		09.05.2018		huded		QINEO PULSE 601 Pro		Interfaces: QIROX		plan number 2890		Com.:		page 6		15page	

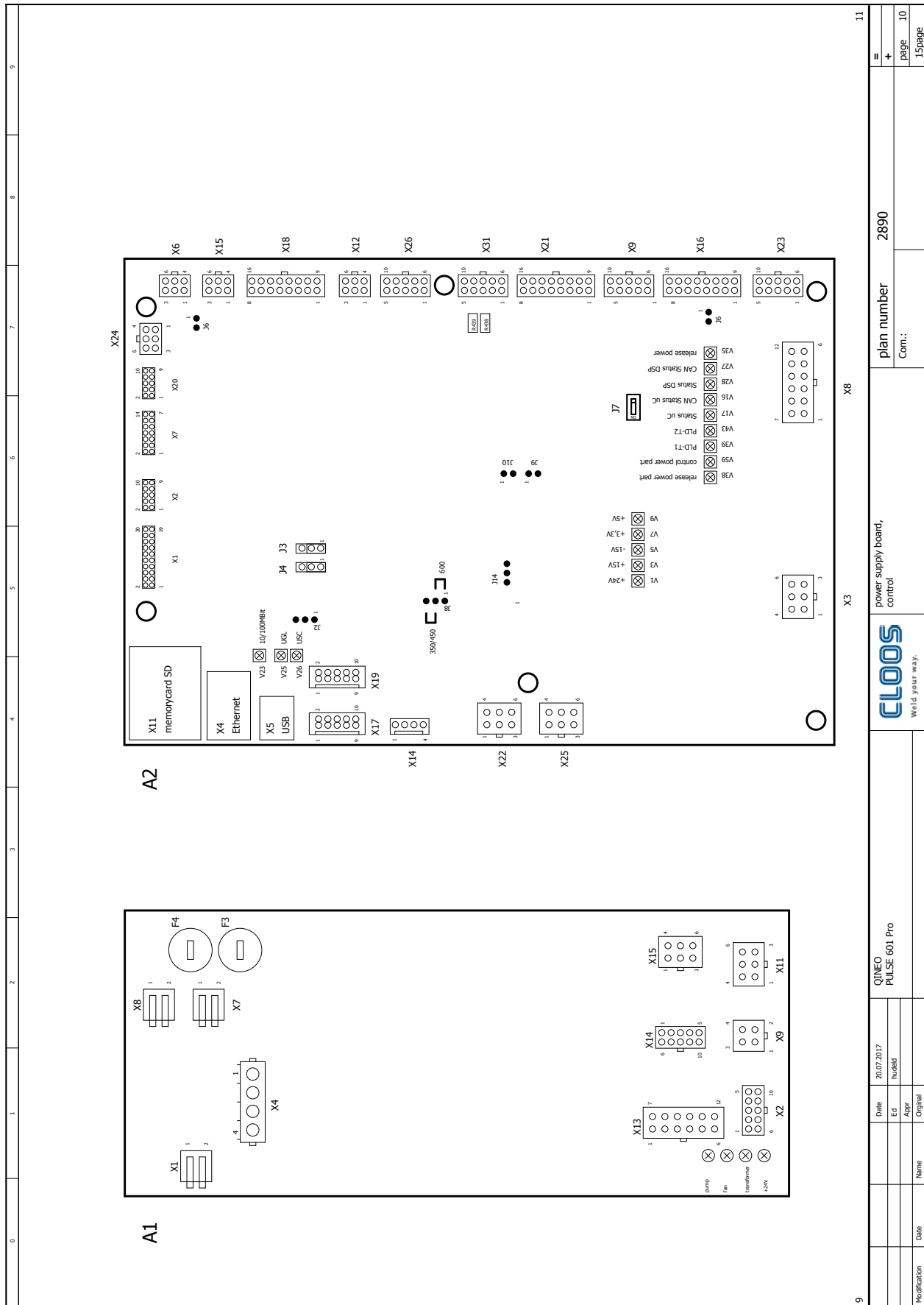
Circuit No. 2890 (PULSE Pro 601)

Compare the circuit number with the one of your machine



Circuit No. 2890 (PULSE Pro 601)

Compare the circuit number with the one of your machine



Electrical parts list - Circuit No. 2890 (PULSE Pro 601)

Pos.	Part number	Designation
A1	0033252710	Qineo Pulse power supply board Rev.1.0
A1-F3	0016020130	fuse 5x20mm, T6,3A
A1-F4	0016020190	fuse 5x20 4A T
A1-X2	0011043110	10pol. housing for bushes MICRO MNL
A1-X2	0011043100	bush MICRO MNL 24-20AWG
A1-X4	0011042904	4pol. housing for bushes Universal MNL
A1-X4	0011042900	bush Universal 20-14AWG
A1-X9	0011043004	4pol. housing for bushes Mini Universal MNL
A1-X9	0011043000	bush Mini Universal 20-16AWG
A1-X11	0011043006	6pol. housing for bushes Mini Universal MNL
A1-X11	0011043000	bush Mini Universal 20-16AWG
A1-X13	0011043012	12pol. housing for bushes Mini Universal MNL
A1-X13	0011043000	bush Mini Universal 20-16AWG
A2	0033100310	Qineo Pulse 600 control
A2-X3	0011043006	6pol. housing for bushes Mini Universal MNL
A2-X3	0011043000	bush Mini Universal 20-16AWG
A2-X6	0011043106	6pol. housing for bushes MICRO MNL
A2-X6	0011043100	bush MICRO MNL 24-20AWG
A2-X8	0011043012	12pol. housing for bushes Mini Universal MNL
A2-X8	0011043000	bush Mini Universal 20-16AWG
A2-X9	0011043110	10pol. housing for bushes MICRO MNL
A2-X9	0011043100	bush MICRO MNL 24-20AWG
A2-X14	0011036714	bushes housing 4pol., 2,54mm
A2-X14	0011036715	crimp contact
A2-X15	0011043106	6pol. housing for bushes MICRO MNL
A2-X15	0011043100	bush MICRO MNL 24-20AWG
A2-X18	0011043116	16pol. housing for bushes MICRO MNL
A2-X18	0011043100	bush MICRO MNL 24-20AWG
A2-X21	0011043116	16pol. housing for bushes MICRO MNL
A2-X21	0011043100	bush MICRO MNL 24-20AWG
A2-X22	0011043006	6pol. housing for bushes Mini Universal MNL
A2-X22	0011043000	bush Mini Universal 20-16AWG
A2-X23	0011043110	10pol. housing for bushes MICRO MNL
A2-X23	0011043100	bush MICRO MNL 24-20AWG
A2-X24	0011043106	6pol. housing for bushes MICRO MNL
A2-X24	0011043100	bush MICRO MNL 24-20AWG
A2-X26	0011043110	10pol. housing for bushes MICRO MNL
A2-X26	0011043100	bush MICRO MNL 24-20AWG
A2-X31	0011043110	10pol. housing for bushes MICRO MNL
A2-X31	0011043100	bush MICRO MNL 24-20AWG
B1	0028090306	current sensor ESM1000C
B1-W1	0038133220	cable current sensor 1000A, 560mm
B1-X1	0011036727	bushes housing 3pol.
B1-X1	0011036715	crimp contact
C1	0021020205	capacitor 10nF 630V
C2	0021020205	capacitor 10nF 630V
C4	0021011312	capacitor axial 0,1uF/1000V
C5	0028090751	DS24B33+, 4kbit EEPROM serial (cable harness chip)
K1	0033352410	Qineo Pulse 600 mains-filter
M1	0022043500	fan, mounting 90°
M1	alternativ	
M1	0022043520	fan, straight mounting
M2	0023033800	pump MTP-600 HP EPDM 230V/50-60HZ
OPT:SD	0831058300	installations kit O-SD
OPT:SD-A2-X23	0011043110	10pol. housing for bushes MICRO MNL
OPT:SD-A2-X23	0011043100	bush MICRO MNL 24-20AWG
OPT:SD-A18	0033058300	Qineo SD-module
OPT:SD-A18-X3	0011043110	10pol. housing for bushes MICRO MNL
OPT:SD-A18-X3	0011043100	bush MICRO MNL 24-20AWG
OPT:SD-A18-X4	0011043110	10pol. housing for bushes MICRO MNL
OPT:SD-A18-X4	0011043100	bush MICRO MNL 24-20AWG
OPT_PER-CAN	0890040100	QINEO Pro, installations kit periphery plug connector/CAN

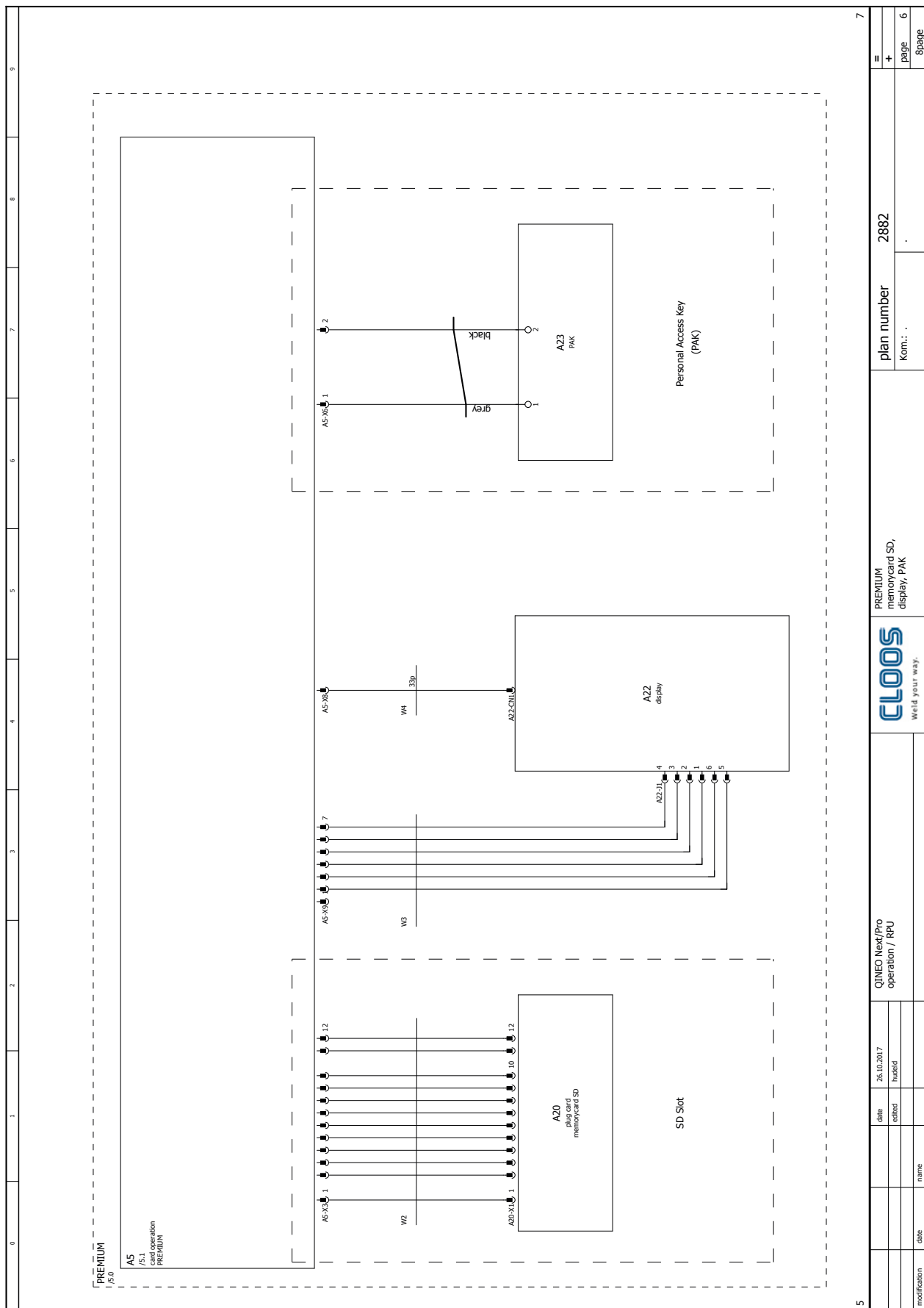
OPT PER-CAN-1X70	0010092511	plug-housing straight HAN3A/7D/STAF6
OPT PER-CAN-1X70	0010092514	pin insert 12pol.
OPT PER-CAN-1X70	0010091804	crimp contact pin 0,5 HAN D
OPT PER-CAN-1X70	0010092524	coding pin Han Q12
OPT PER-CAN-1X70	0035036500	screwed cable gland M20
OPT PER-CAN-A2-X16	0011043116	16pol. housing for bushes MICRO MNL
OPT PER-CAN-A2-X16	0011043100	bush MICRO MNL 24-20AWG
OPT PER-CAN-X70	0010092510	Bulkhead mounted housings HAN3A/7D, Metall
OPT PER-CAN-X70	0010092515	socket insert 12pol.
OPT PER-CAN-X70	0010091830	crimp contact bush 0,5 HAN D
OPT PER-CAN-X70	0010092524	coding pin Han Q12
OPT QIROX IF-A2-X12	0011043106	6pol. housing for bushes MICRO MNL
OPT QIROX IF-A2-X12	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-A2-X19	0010110325	female connector 10pol.
OPT QIROX IF-A2-X19	0010110335	strain relief 10pol.
OPT QIROX IF-A2-X19	0010110320	interlock right
OPT QIROX IF-A2-X19	0010110321	interlock left
OPT QIROX IF-A9	0033057000	seam tracking GLC 403/603 Quinto
OPT QIROX IF-A9-X1	0011041400	bush strip 8pol.
OPT QIROX IF-A9-X3	0010110325	female connector 10pol.
OPT QIROX IF-A9-X3	0010110335	strain relief 10pol.
OPT QIROX IF-A9-X3	0010110320	interlock right
OPT QIROX IF-A9-X3	0010110321	interlock left
OPT QIROX IF-A10	0033059210	Qineo control gas nozzle sensor FS
OPT QIROX IF-A10-F1	0016020191	fuse 5x20 3,15A T
OPT QIROX IF-A10-F2	0016020191	fuse 5x20 3,15A T
OPT QIROX IF-A10-X1	0011043106	6pol. housing for bushes MICRO MNL
OPT QIROX IF-A10-X1	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF-A10-X2	0011043006	6pol. housing for bushes Mini Universal MNL
OPT QIROX IF-A10-X2	0011043000	bush Mini Universal 20-16AWG
OPT QIROX IF-A10-X3	0011043004	4pol. housing for bushes Mini Universal MNL
OPT QIROX IF-A10-X3	0011043000	bush Mini Universal 20-16AWG
OPT QIROX IF-R4	0030044000	resistor 39 Ohm 100W
OPT QIROX IF-R5	0030044000	resistor 39 Ohm 100W
OPT QIROX IF1	0890040000	QINEO Pro, QIROX-Interface
OPT QIROX IF1-A2-X16	0011043116	16pol. housing for bushes MICRO MNL
OPT QIROX IF1-A2-X16	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF1-A17	0033059500	Qineo CAN potential separation V3
OPT QIROX IF1-A17-X1	0011043116	16pol. housing for bushes MICRO MNL
OPT QIROX IF1-A17-X1	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF1-A17-X2	0011043112	12pol. housing for bushes MICRO MNL
OPT QIROX IF1-A17-X2	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF1-A17-X3	0011043104	4pol. housing for bushes MICRO MNL
OPT QIROX IF1-A17-X3	0011043100	bush MICRO MNL 24-20AWG
OPT QIROX IF1-X7	0010110071	Bulkhead mounted housings HAN6E
OPT QIROX IF1-X7	0010091315	socket insert HAN24DD
OPT QIROX IF1-X7	0010091830	crimp contact bush 0,5 HAN D
OPT QIROX IF1-X7	0010091808	pilot bushing
OPT RPU	0890050710	QINEO Pro, installations kit RPU)
OPT RPU-A2-X6	0011043106	6pol. housing for bushes MICRO MNL
OPT RPU-A2-X6	0011043100	bush MICRO MNL 24-20AWG
OPT RPU-P1	0020030130	LED green, 24V
OPT RPU-R3	0027092100	ferite core, AD17,5 ID9,5 L12,7
OPT RPU-X30	0010092510	Bulkhead mounted housings HAN3A/7D, Metall
OPT RPU-X30	0010092515	socket insert 12pol.
OPT RPU-X30	0010091830	crimp contact bush 0,5 HAN D
OPT RPU-X30	0010092524	coding pin Han Q12
OPT RPU-1X30	0010092511	plug-housing straight HAN3A/7D/STAF6
OPT RPU-1X30	0010092514	pin insert 12pol.
OPT RPU-1X30	0010091805	crimp contact pin 0,14-0,37 HAN D
OPT RPU-1X30	0010091804	crimp contact pin 0,5 HAN D
OPT RPU-1X30	0010092524	coding pin Han Q12
OPT RPU-1X30	0035036512	reducer M20-M12
OPT RPU-1X30	0035036600	screwed cable gland M12
OPT TD	0890040200	QN Pro, installations kit tandem

OPT_TD-A2-X17	0010110325	female connector 10pol.
OPT_TD-A2-X17	0010110335	strain relief 10pol.
OPT_TD-A2-X17	0010110320	interlock right
OPT_TD-A2-X17	0010110321	interlock left
OPT_TD-A8	0033059600	Qineo Impulssynchronisation control
OPT_TD-A8-X1	0010110325	female connector 10pol.
OPT_TD-A8-X1	0010110335	strain relief 10pol.
OPT_TD-A8-X1	0010110320	interlock right
OPT_TD-A8-X1	0010110321	interlock left
OPT_TD-A8-X2	0010110288	bush strip 6pol.
OPT_TD-A9-X2	0010110288	bush strip 6pol.
OPT_TD-X32	0010091301	Bulkhead mounted housings 15D/10A/STAF14
OPT_TD-X32	0010091829	socket insert 15D
OPT_TD-X32	0010091830	crimp contact bush 0,5 HAN D
Q1	0003261005	Qineo main switch
Q2	0012021600	power contactor
R1	0804640000	welding-current choke
T1	0831601001	Qineo Pulse 600 main transformer 400V
T1-F7	0016062000	temperature sensor 160°+/-10° NC
T1-F8	0016064300	temperature sensor 70°+/-5° NO
T2	0055081800	rectifier 600A
T3	0055626000	Qineo Pulse 600 power part overall
T3-A1	0033100410	Qineo Pulse driver right
T3-A1-X1	0011043110	10pol. housing for bushes MICRO MNL
T3-A1-X1	0011043100	bush MICRO MNL 24-20AWG
T3-A1-X2	0011043006	6pol. housing for bushes Mini Universal MNL
T3-A1-X2	0011043000	bush Mini Universal 20-16AWG
T3-A2	0033100410	Qineo Pulse driver right
T3-A2-X1	0011043110	10pol. housing for bushes MICRO MNL
T3-A2-X1	0011043100	bush MICRO MNL 24-20AWG
T3-A2-X2	0011043006	6pol. housing for bushes Mini Universal MNL
T3-A2-X2	0011043000	bush Mini Universal 20-16AWG
T3-B1	0016062200	temperature sensor 80°+/-5° O
T3-B2	0016062200	temperature sensor 80°+/-5° O
T3-C1	0021011289	ELKO 10000uF 100V
T3-C2	0021011289	ELKO 10000uF 100V
T3-K1	0028082500	MOSFET 140A/200V
T3-K2	0028082500	MOSFET 140A/200V
T3-R1	0030040401	resistor 470 OHM 25W
T3-R2	0030040402	resistor 150 OHM 50W
T3-R3	0029063400	diode 2x60A/400V
T3-R4	0029063400	diode 2x60A/400V
T4	0027054200	Qineo one-phase-trafo 400V
T4-F1	0016020187	fuse 6,3x32mm, T4A, 500V
T4-F2	0016020187	fuse 6,3x32mm, T4A, 500V
X1	0033048410	PE/N- rail
X2	0073039500	panel jack 70/95mm² TM
X3	0073039500	panel jack 70/95mm² TM
X4	0010091510	Sense- connection
X8	0010110071	Bulkhead mounted housings HAN6E
X8	0010091315	socket insert HAN24DD
X8	0010091810	crimp contact bush 1,0 HAN D
X8	0010091830	crimp contact bush 0,5 HAN D
X10	0035020310	housing for flat-plug, bush 6pol.
X10	0035020031	blade receptacle 6,3mm
X11	0035020310	housing for flat-plug, bush 6pol.
X11	0035020031	blade receptacle 6,3mm
X12	0035020091	housing for blade receptacle 4pol.
X12	0035020031	blade receptacle 6,3mm
X13	0035020022	flat-plug 6,3mm
1X10	0033048410	PE/N- rail
1X11	0035020311	housing for flat-plug, pin 6pol.
1X11	0035020041	flat-plug 6,3mm
1X12	0035020042	housing for flat-plug 4pol.
1X12	0035020041	flat-plug 6,3mm

Circuit No. 2882 (RPU MasterPlus)
Compare the circuit number with the one of your machine



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Circuit No. 2882 (RPU Premium)
Compare the circuit number with the one of your machine

Electrical parts list - Circuit No. 2882 (RPU MasterPlus / Premium)

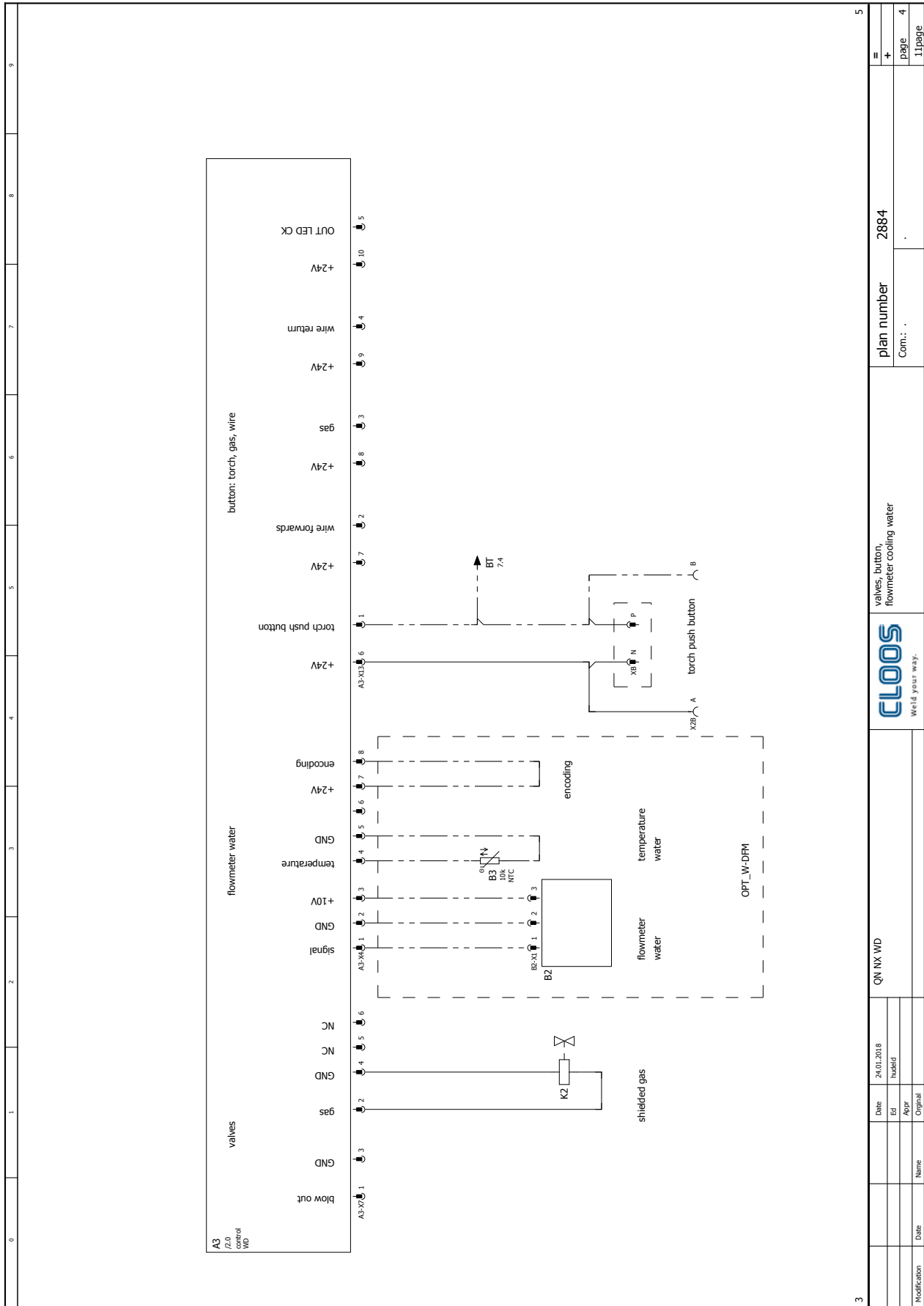
Pos.	Part number	Designation
A3-X6	0011043106	6pol. housing for bushes MICRO MNL
A3-X6	0011043100	bush MICRO MNL 24-20AWG
MASTER PLUS	0831004130	Qineo operating module MASTER PLUS
MASTER PLUS-A5	0033059300	Qineo Master Plus card operation
MASTER PLUS-A5-X5	0011043156	6pol. housing for bushes MICRO MNL 1R
MASTER PLUS-A5-X5	0011043100	bush MICRO MNL 24-20AWG
MASTER PLUS-A6	0831004031	Qineo foil operation Master Plus
MASTER PLUS-A22	0033513400	TFT Display - MasterPlus
MASTER PLUS-PAK	0033216410	installations kit PAK / QINEO
MASTER PLUS-PAK-A5-X1	0011043552	2pol. pin housing MICRO MNL 1R
MASTER PLUS-PAK-A5-X1	0011043500	pin MICRO MNL 24-20AWG
MASTER PLUS-PAK-A23	0028090720	I-Button Probe short
MASTER PLUS-W4	A22	
PREMIUM	0831004120	Qineo operating module PREMIUM
PREMIUM-A5	0033058600	Qineo card operation Premium
PREMIUM-A5-X4	A6	
PREMIUM-A5-X7	0011043156	6pol. housing for bushes MICRO MNL 1R
PREMIUM-A5-X7	0011043100	bush MICRO MNL 24-20AWG
PREMIUM-A5-X8	W4	
PREMIUM-A5-X9	W3	
PREMIUM-A6	0831004021	Qineo Pulse foil operation Premium
PREMIUM-A22	0033513300	TFT LED Display 5,7Inch 320x240
PREMIUM-A22-CN1	W4	
PREMIUM-A22-J1	W3	
PREMIUM-PAK	0033216410	installations kit PAK / QINEO
PREMIUM-PAK-A5-X6	0011043552	2pol. pin housing MICRO MNL 1R
PREMIUM-PAK-A5-X6	0011043500	pin MICRO MNL 24-20AWG
PREMIUM-PAK-A23	0028090720	I-Button Probe short
PREMIUM-Slot-kpl	0831004125	Qineo Pulse SD-Slot
PREMIUM-Slot-kpl-A5-X3	W2	
PREMIUM-Slot-kpl-A20	0033058800	Qineo plug card for memorycard SD
PREMIUM-Slot-kpl-A20-X1	W2	
PREMIUM-Slot-kpl-W2	0038134940	connection cable 12pol.
PREMIUM-W3	0033513301	LED connection cable 6pol. / 200mm f. TFT
PREMIUM-W4	0033513201	FFC data-cable 33pol. / 210mm f. TFT
R1	0027091300	ringcoil for cable motor
W1	0038141600	cable initiator 2x0,38+3x2x0,25mm² shielded
1X30	0010092511	plug-housing straight HAN3A/7D/STAF6
1X30	0010092514	pin insert 12pol.
1X30	0010091805	crimp contact pin 0,14-0,37 HAN D
1X30	0010091804	crimp contact pin 0,5 HAN D
1X30	0010092524	coding pin Han Q12
1X30	0035036512	reducer M20-M12
1X30	0035036600	screwed cable gland M12

Circuit No. QN NX WD 2884

Compare the circuit number with the one of your machine



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valves, button,
flowmeter cooling water

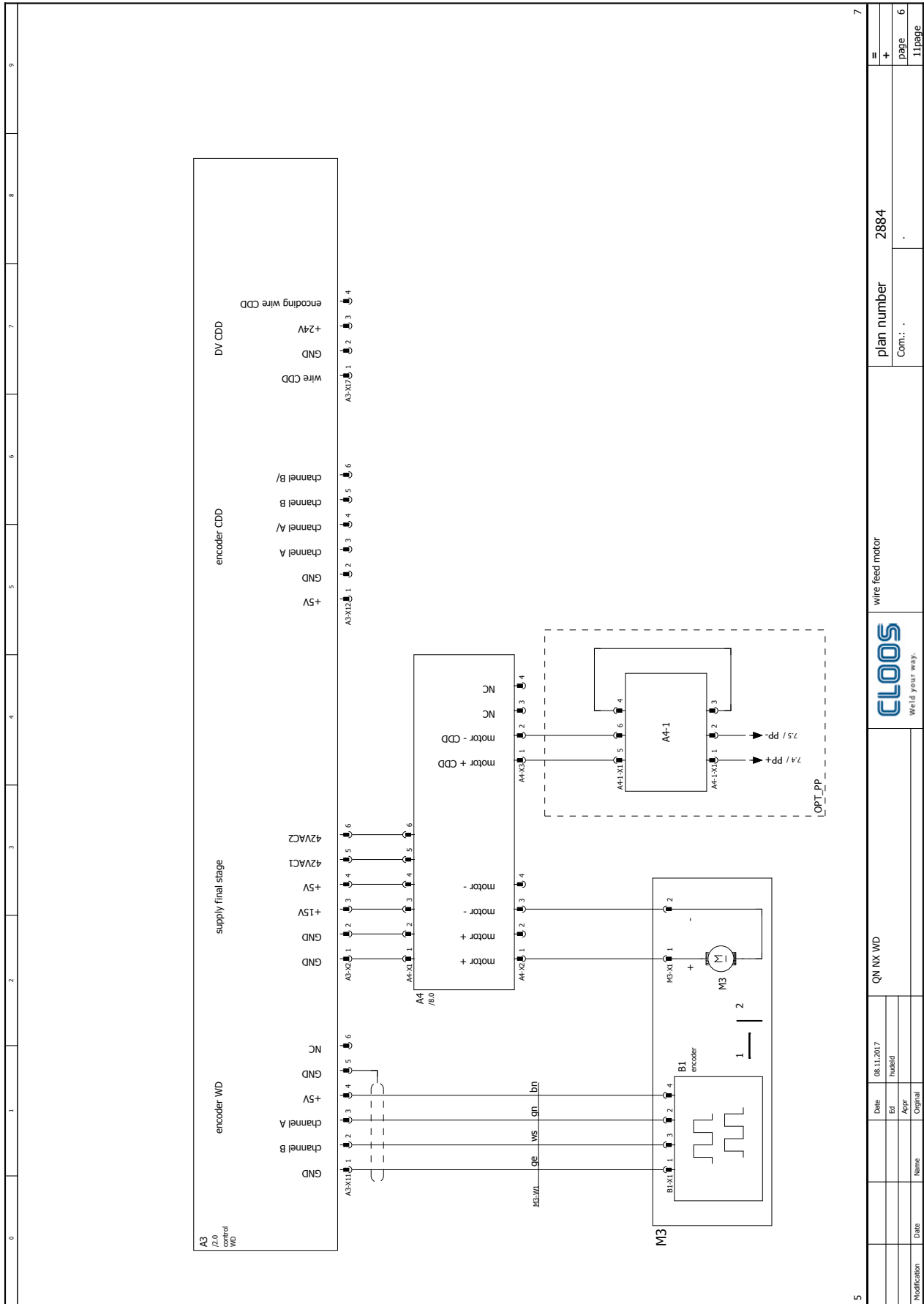
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Circuit No. QN NX WD 2884
Compare the circuit number with the one of your machine

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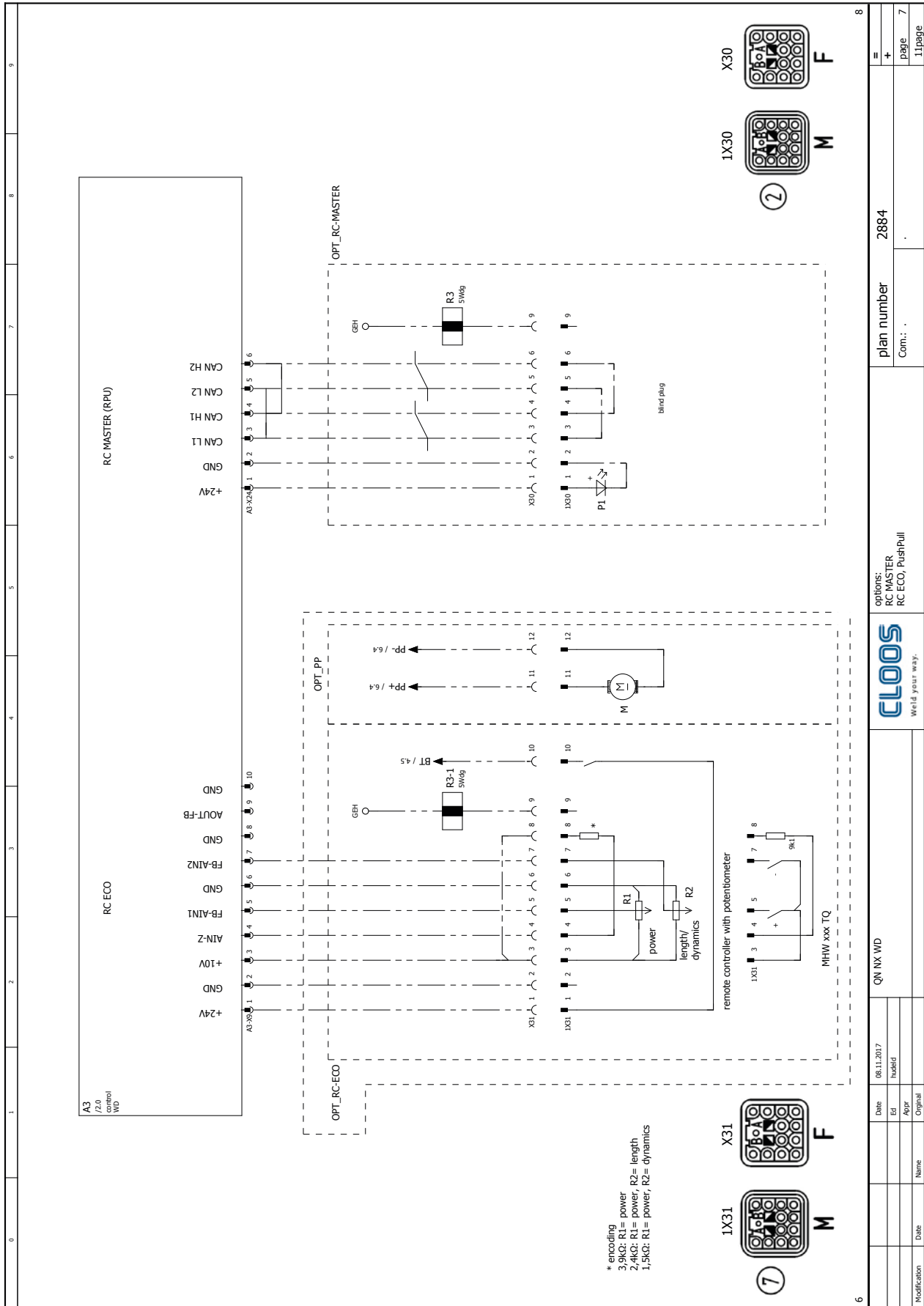
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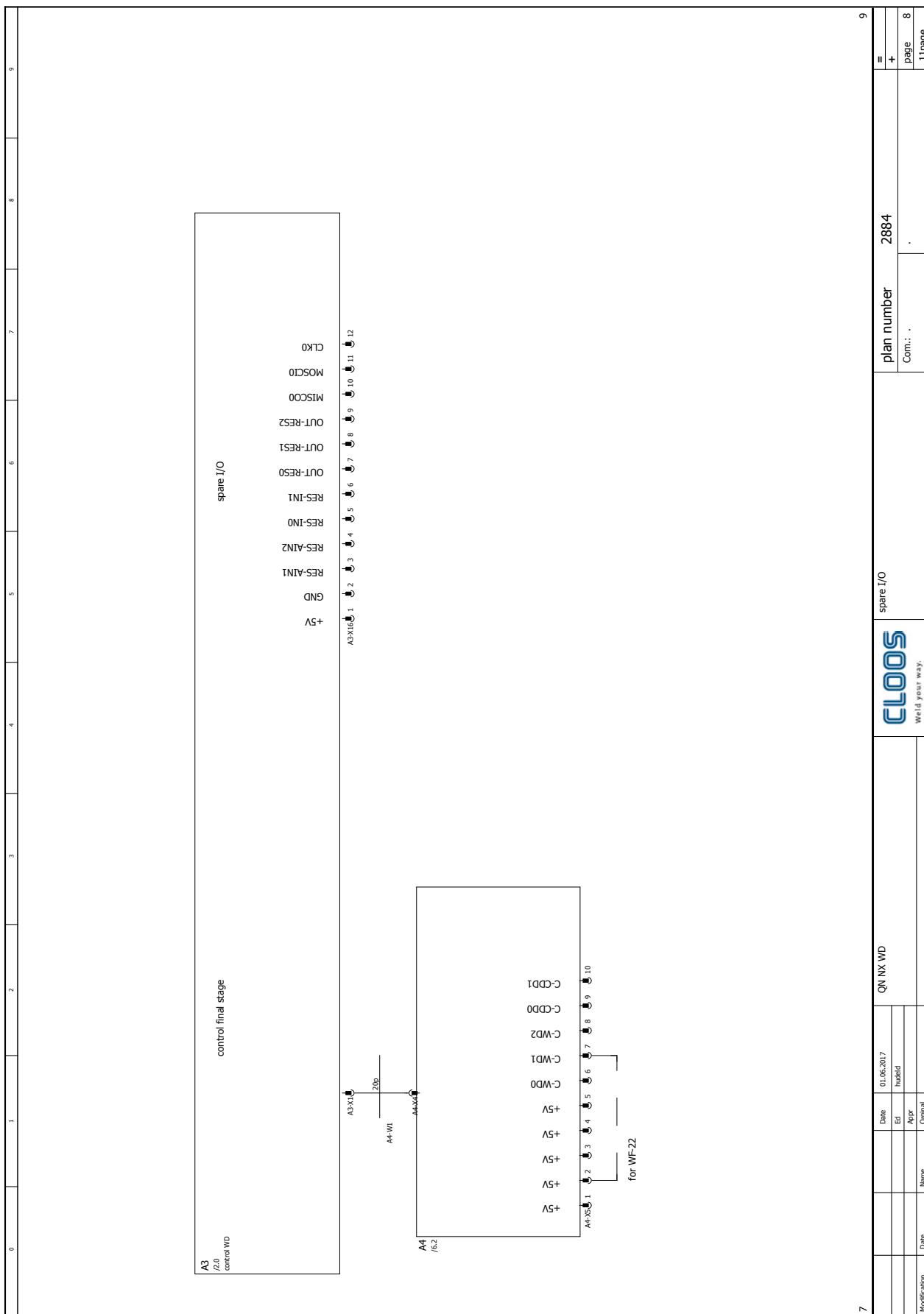
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Circuit No. QN NX WD 2884

Compare the circuit number with the one of your machine



Circuit No. QN NX WD 2884 Compare the circuit number with the one of your machine



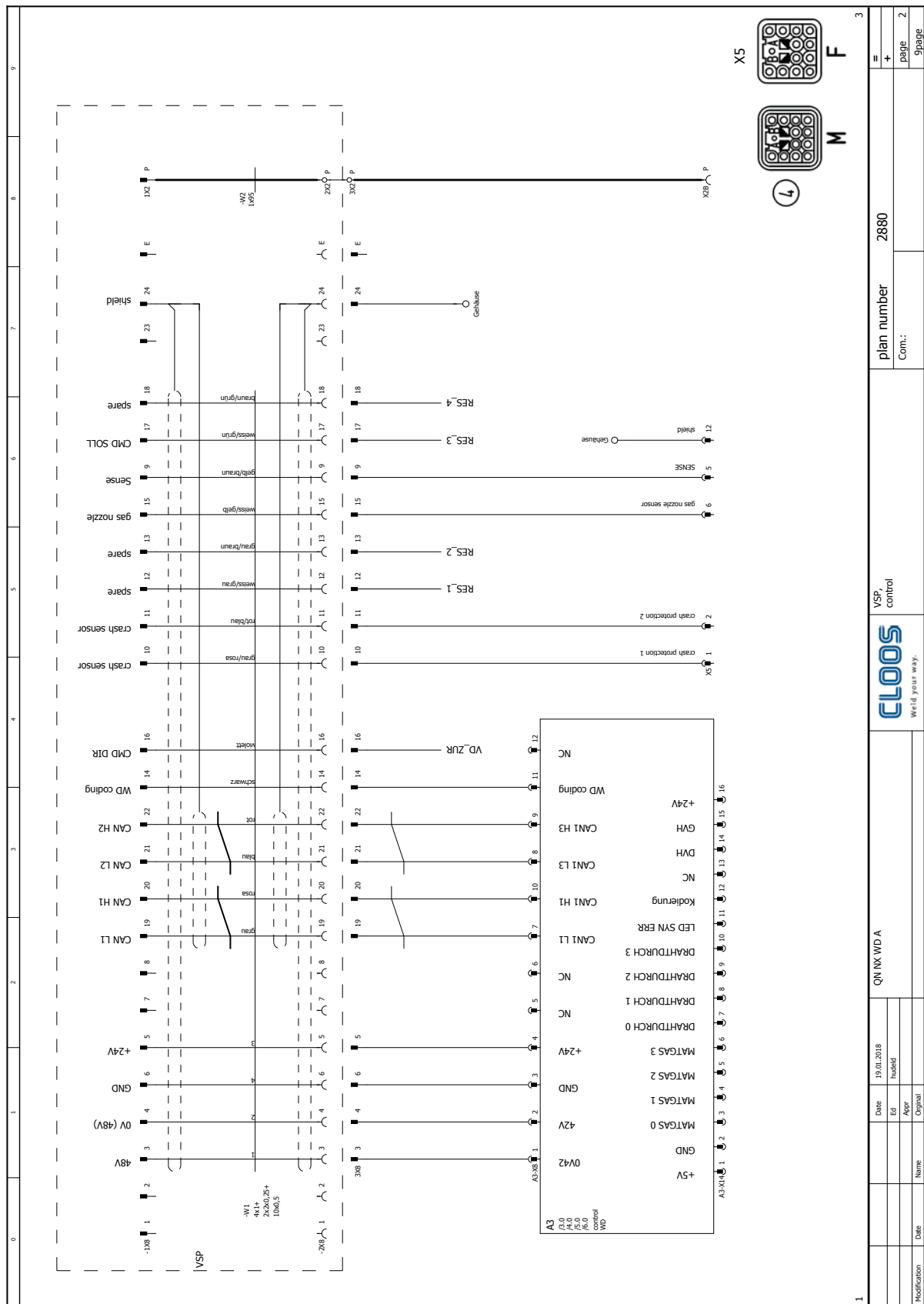
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Modification		Date						

Electrical parts list - Circuit No. 2884 (QWD "M4")

Pos.	Part number	Designation
A3	0033334400	Qineo Pulse WD, control II
A3-X1	A4-W1	
A3-X2	0011043006	6pol. housing for bushes Mini Universal MNL
A3-X2	0011043000	bush Mini Universal 20-16AWG
A3-X6	0011043106	6pol. housing for bushes MICRO MNL
A3-X6	0011043100	bush MICRO MNL 24-20AWG
A3-X7	0011043106	6pol. housing for bushes MICRO MNL
A3-X7	0011043100	bush MICRO MNL 24-20AWG
A3-X8	0011043012	12pol. housing for bushes Mini Universal MNL
A3-X8	0011043000	bush Mini Universal 20-16AWG
A3-X9	0011043110	10pol. housing for bushes MICRO MNL
A3-X9	0011043100	bush MICRO MNL 24-20AWG
A3-X10	0011043104	4pol. housing for bushes MICRO MNL
A3-X10	0011043100	bush MICRO MNL 24-20AWG
A3-X11	0011043106	6pol. housing for bushes MICRO MNL
A3-X11	0011043100	bush MICRO MNL 24-20AWG
A3-X12	0011043106	6pol. housing for bushes MICRO MNL
A3-X12	0011043100	bush MICRO MNL 24-20AWG
A3-X13	0011043110	10pol. housing for bushes MICRO MNL
A3-X13	0011043100	bush MICRO MNL 24-20AWG
A3-X14	A7-W1	
A3-X16	0011043112	12pol. housing for bushes MICRO MNL
A3-X16	0011043100	bush MICRO MNL 24-20AWG
A3-X17	0011043104	4pol. housing for bushes MICRO MNL
A3-X17	0011043100	bush MICRO MNL 24-20AWG
A3-X20	0011043104	4pol. housing for bushes MICRO MNL
A3-X20	0011043100	bush MICRO MNL 24-20AWG
A3-X21	B4-W1	
A3-X24	0011043106	6pol. housing for bushes MICRO MNL
A3-X24	0011043100	bush MICRO MNL 24-20AWG
A4	0033334500	Qineo Pulse WD, final stage II
A4-W1	A4	
A4-X1	0011043006	6pol. housing for bushes Mini Universal MNL
A4-X1	0011043000	bush Mini Universal 20-16AWG
A4-X2	0011043004	4pol. housing for bushes Mini Universal MNL
A4-X2	0011043000	bush Mini Universal 20-16AWG
A4-X3	0011043004	4pol. housing for bushes Mini Universal MNL
A4-X3	0011043000	bush Mini Universal 20-16AWG
A4-X4	A4	
A4-X5	0011043110	10pol. housing for bushes MICRO MNL
A4-X5	0011043100	bush MICRO MNL 24-20AWG
A5	0831004120	Qineo operating module PREMIUM
A5	alternativ	
A5	0831004130	Qineo operating module MASTER PLUS
A5-X5	0011043156	6pol. housing for bushes MICRO MNL 1R
A5-X5	0011043100	bush MICRO MNL 24-20AWG
A7	0033252620	Qineo Pulse preselection characteristic curve Master left
A7-X1	0038134920	connection cable 16p. / 400mm
A7-X1	A7-W1	
B4	0016070710	airflow sensor
B4-W1	0038131400	cable 40cm
B4-X1	B4-W1	
B5	0016070600	pressure switch
B6	0043591030	pressure roller bow right WF-22 HD + sensor
B6-X1	0010092110	coupling plug 3pol.
K2	0032020510	solenoid-valve 24V/DC
M3	0024143300	wire feed motor KSV4030/350
M3-B1	M3	
M3-B1-X1	0011042500	bush strip 4pol.
M3-B1-X1	0011042501	cap for 4pol. bush strip
M3-W1	0038071100	cable oelflex 2x2x0,2mm²
M3-X1	0035020301	2pol. housing for blade receptacle

Pos.	Part number	Designation
M3-X1	0035020031	blade receptacle 6,3mm
OPT PP	0891503508	installations kit QN NX WD M4, Push Pull/RC ECO
OPT PP-A4-1	0033058500	Qineo LC-card CDD
OPT PP-A4-1-X1	0011043006	6pol. housing for bushes Mini Universal MNL
OPT PP-A4-1-X1	0011043000	bush Mini Universal 20-16AWG
OPT PP-A4-X2	0011043004	4pol. housing for bushes Mini Universal MNL
OPT PP-A4-X2	0011043000	bush Mini Universal 20-16AWG
OPT RC-ECO	0891503550	installations kit QN NX WD M4, RC ECO
OPT RC-ECO-1X31	0010092511	plug-housing straight HAN3A/7D/STAF6
OPT RC-ECO-1X31	0010092514	pin insert 12pol.
OPT RC-ECO-1X31	0010091804	crimp contact pin 0,5 HAN D
OPT RC-ECO-1X31	0010092524	coding pin Han Q12
OPT RC-ECO-A3-X9	0011043110	10pol. housing for bushes MICRO MNL
OPT RC-ECO-A3-X9	0011043100	bush MICRO MNL 24-20AWG
OPT RC-ECO-R3-1	0027092100	ferrite core, AD17,5 ID9,5 L12,7
OPT RC-ECO-X31	0010092510	Bulkhead mounted housings HAN3A/7D, Metall
OPT RC-ECO-X31	0010092515	socket insert 12pol.
OPT RC-ECO-X31	0010091830	crimp contact bush 0,5 HAN D
OPT RC-ECO-X31	0010092524	coding pin Han Q12
OPT RC-MASTER	0890102020	installations kit QN NX WD M4, RC Master
OPT RC-MASTER-1X30	0010092511	plug-housing straight HAN3A/7D/STAF6
OPT RC-MASTER-1X30	0010092514	pin insert 12pol.
OPT RC-MASTER-1X30	0010091804	crimp contact pin 0,5 HAN D
OPT RC-MASTER-1X30	0010092524	coding pin Han Q12
OPT RC-MASTER-A3-X24	0011043106	6pol. housing for bushes MICRO MNL
OPT RC-MASTER-A3-X24	0011043100	bush MICRO MNL 24-20AWG
OPT RC-MASTER-P1	0020030130	LED green, 24V
OPT RC-MASTER-R3	0027092100	ferrite core, AD17,5 ID9,5 L12,7
OPT RC-MASTER-X30	0010092510	Bulkhead mounted housings HAN3A/7D, Metall
OPT RC-MASTER-X30	0010092515	socket insert 12pol.
OPT RC-MASTER-X30	0010091830	crimp contact bush 0,5 HAN D
OPT RC-MASTER-X30	0010092524	coding pin Han Q12
OPT RPU-P-A3-X6	0011043106	6pol. housing for bushes MICRO MNL
OPT RPU-P-A3-X6	0011043100	bush MICRO MNL 24-20AWG
OPT W-DFM	0831002000	installations kit water flowmeter
OPT W-DFM-A3-X4	0011043108	8pol. housing for bushes MICRO MNL
OPT W-DFM-A3-X4	0011043100	bush MICRO MNL 24-20AWG
OPT W-DFM-B2	0016070800	Flowmeter FHKC RYTON G1/4
OPT W-DFM-B2-X1	0011039710	bush strip 3pol. 3,96mm IDT0,3 - 0,4
OPT W-DFM-B2-X1	0011039711	cap for 3pol. bush strip
OPT W-DFM-B3	0030040411	NTC 10K
R5	0027092400	ferrite core
VSP-W1	0038141220	data-cable LIYCY (TP) 8x2x0,5
VSP-W2	0038030500	welding cable 95mm ² HO1N2-D
VSP-1X2	0073031100	welding cable plug 70/95mm ²
VSP-1X8	0010091320	plug-housing 24DD
VSP-1X8	0010091316	multiple plug HAN 24DD
VSP-1X8	0010091804	crimp contact pin 0,5 HAN D
VSP-1X8	0035036100	screwed cable gland M25
VSP-2X2	0034060004	cable-shoe 95mm ²
VSP-2X8	0010091320	plug-housing 24DD
VSP-2X8	0010091315	socket insert HAN24DD
VSP-2X8	0010091830	crimp contact bush 0,5 HAN D
VSP-2X8	0035036100	screwed cable gland M25
X2B	0043620040	Central connection SZ Qineo
X2B	alternativ	
X2B	0043620010	Central connection Euro Qineo
3X2	0073032750	welding-current connection M12
3X8	0010110071	Bulkhead mounted housings HAN6E
3X8	0010091316	multiple plug HAN 24DD
3X8	0010091804	crimp contact pin 0,5 HAN D

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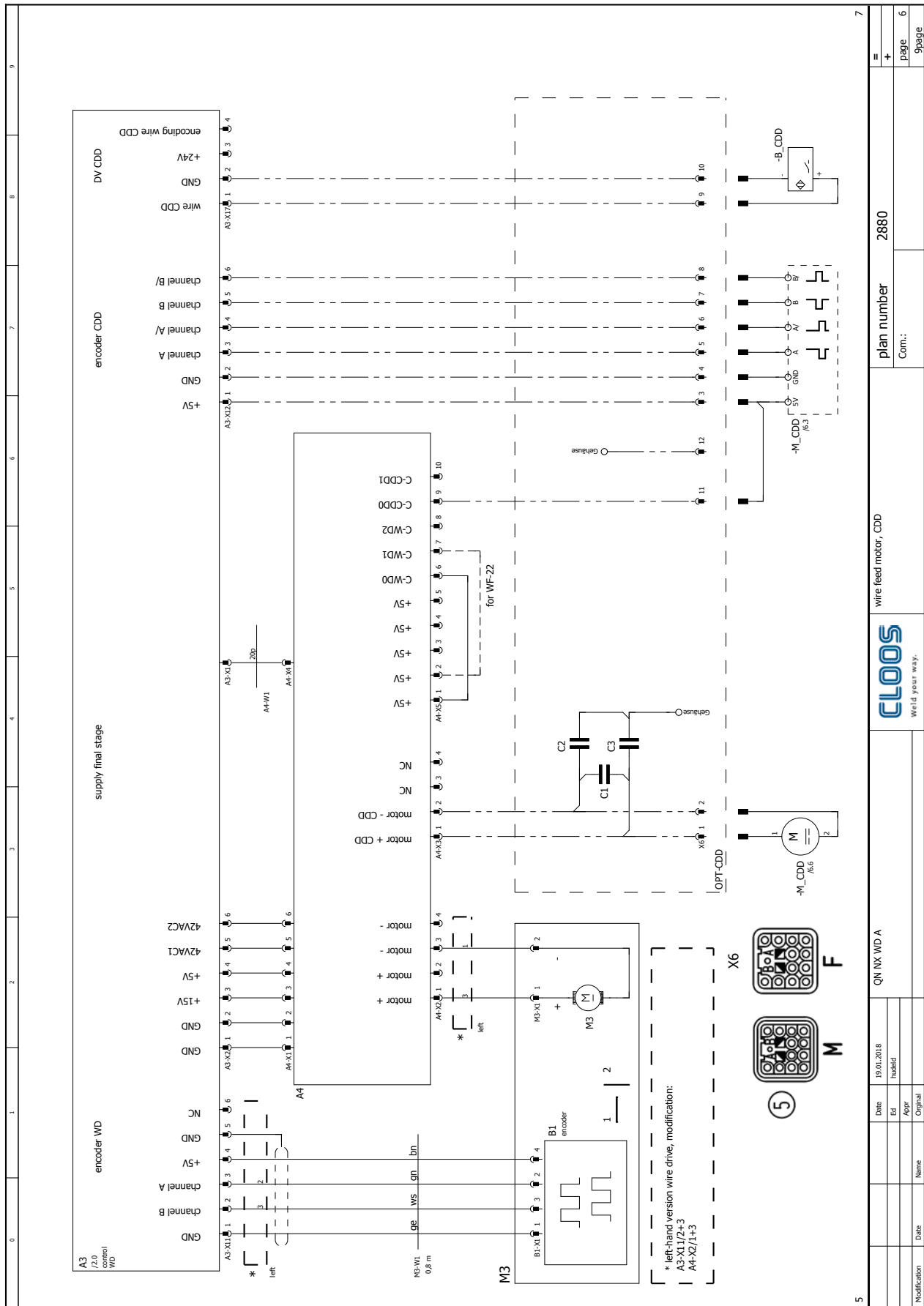
Circuit No. QN NX WD A 2880
Compare the circuit number with the one of your machine







Circuit No. QN NX WD A 2880 Compare the circuit number with the one of your machine



Electrical parts list - Circuit No. 2880 (QWD "A4")

Pos.	Part number.	Designation
A3	0033334400	Qineo Pulse WD, control II
A3-X1	A4-W1	
A3-X2	0011043006	6pol. housing for bushes Mini Universal MNL
A3-X2	0011043000	bush Mini Universal 20-16AWG
A3-X6	0011043106	6pol. housing for bushes MICRO MNL
A3-X6	0011043100	bush MICRO MNL 24-20AWG
A3-X7	0011043106	6pol. housing for bushes MICRO MNL
A3-X7	0011043100	bush MICRO MNL 24-20AWG
A3-X8	0011043012	12pol. housing for bushes Mini Universal MNL
A3-X8	0011043000	bush Mini Universal 20-16AWG
A3-X9	0011043110	10pol. housing for bushes MICRO MNL
A3-X9	0011043100	bush MICRO MNL 24-20AWG
A3-X10	0011043104	4pol. housing for bushes MICRO MNL
A3-X10	0011043100	bush MICRO MNL 24-20AWG
A3-X11	0011043106	6pol. housing for bushes MICRO MNL
A3-X11	0011043100	bush MICRO MNL 24-20AWG
A3-X13	0011043110	10pol. housing for bushes MICRO MNL
A3-X13	0011043100	bush MICRO MNL 24-20AWG
A3-X16	0011043112	12pol. housing for bushes MICRO MNL
A3-X16	0011043100	bush MICRO MNL 24-20AWG
A3-X20	0011043104	4pol. housing for bushes MICRO MNL
A3-X20	0011043100	bush MICRO MNL 24-20AWG
A3-X21	B4-W1	
A3-X24	0011043106	6pol. housing for bushes MICRO MNL
A3-X24	0011043100	bush MICRO MNL 24-20AWG
A4	0033334500	Qineo Pulse WD, final stage II
A4-W1	A4	
A4-X1	0011043006	6pol. housing for bushes Mini Universal MNL
A4-X1	0011043000	bush Mini Universal 20-16AWG
A4-X2	0011043004	4pol. housing for bushes Mini Universal MNL
A4-X2	0011043000	bush Mini Universal 20-16AWG
A4-X5	0011043110	10pol. housing for bushes MICRO MNL
A4-X5	0011043100	bush MICRO MNL 24-20AWG
B4	0016070710	airflow sensor
B4-W1	0038131400	cable 40cm
B4-X1	B4-W1	
B5	0016070600	pressure switch
B6	0043591030	pressure roller bow right WF-22 HD + sensor
B6-X1	0010053400	flange-socket 3pol.
B7	0007050059	ring sensor inductive
B7-W1	0007050020	cable-box M12x1 bracket 5m
K2	0032020510	solenoid-valve 24V/DC
K3	0032024700	2/2- way-valve 3/8", 24V DC
M3	0024143600	wire feed motor KSV5035/772
M3-B1	M3	
M3-B1-X1	0011042500	bush strip 4pol.
M3-B1-X1	0011042501	cap for 4pol. bush strip
M3-W1	0038071100	cable oelflex 2x2x0,2mm²
M3-X1	0035020301	2pol. housing for blade receptacle
M3-X1	0035020031	blade receptacle 6,3mm
OPT-CDD	0891058510	installations kit QN NX WD A, Q-CDD_8
OPT-CDD-A3-X12	0011043106	6pol. housing for bushes MICRO MNL
OPT-CDD-A3-X12	0011043100	bush MICRO MNL 24-20AWG
OPT-CDD-A3-X17	0011043104	4pol. housing for bushes MICRO MNL
OPT-CDD-A3-X17	0011043100	bush MICRO MNL 24-20AWG
OPT-CDD-A4-X3	0011043004	4pol. housing for bushes Mini Universal MNL
OPT-CDD-A4-X3	0011043000	bush Mini Universal 20-16AWG
OPT-CDD-A4-X5	0011043110	10pol. housing for bushes MICRO MNL
OPT-CDD-A4-X5	0011043100	bush MICRO MNL 24-20AWG
OPT-CDD-C1	0021020205	capacitor 10nF 630V

Pos.	Part number.	Designation
OPT-CDD-C2	0021020205	capacitor 10nF 630V
OPT-CDD-C3	0021020205	capacitor 10nF 630V
OPT-CDD-X6	0010092510	Bulkhead mounted housings HAN3A/7D, Metall
OPT-CDD-X6	0010092515	socket insert 12pol.
OPT-CDD-X6	0010091830	crimp contact bush 0,5 HAN D
OPT-CDD-X6	0010092524	coding pin Han Q12
OPT:W-DFM	0831002010	installations kit water flowmeter QWD-A
OPT:W-DFM-A3-X4	0011043108	8pol. housing for bushes MICRO MNL
OPT:W-DFM-A3-X4	0011043100	bush MICRO MNL 24-20AWG
OPT:W-DFM-B2	0016070800	Flowmeter FHKC RYTON G1/4
OPT:W-DFM-B2-X1	0011039710	bush strip 3pol. 3,96mm IDT0,3 - 0,4
OPT:W-DFM-B2-X1	0011039711	cap for 3pol. bush strip
OPT:W-DFM-B3	0030040411	NTC 10K
Opt:WEC	0831803030	installations kit Wire-End-Control
Opt:WEC-A3-X5	0011043108	8pol. housing for bushes MICRO MNL
Opt:WEC-A3-X5	0011043100	bush MICRO MNL 24-20AWG
Opt:WEC-S4	0008025012	key-switch 1xU, 90°
Opt:WEC-X50	0010070600	plug appliance 6pol.+PE
Opt:WEC-1X50	0010070700	plug 6pol.+PE
S1	0008010032	button
S2	0008010032	button
S3	0008010032	button
VSP-W1	0038077210	cable 4x1+2x2x0,25+10x0,5mm ²
VSP-W2	0038030500	welding cable 95mm ² HO1N2-D
VSP-1X2	0073031100	welding cable plug 70/95mm ²
VSP-1X8	0010091320	plug-housing 24DD
VSP-1X8	0010091316	multiple plug HAN 24DD
VSP-1X8	0010091803	crimp contact pin 1,0 HAN D
VSP-1X8	0010091804	crimp contact pin 0,5 HAN D
VSP-1X8	0010091805	crimp contact pin 0,14-0,37 HAN D
VSP-1X8	0035036100	screwed cable gland M25
VSP-2X2	0034060004	cable-shoe 95mm ²
VSP-2X8	0010091320	plug-housing 24DD
VSP-2X8	0010091315	socket insert HAN24DD
VSP-2X8	0010091810	crimp contact bush 1,0 HAN D
VSP-2X8	0010091830	crimp contact bush 0,5 HAN D
VSP-2X8	0010091880	crimp contact bush 0,14-0,37HAN/D
VSP-2X8	0035036100	screwed cable gland M25
X2B	0043620040	Central connection SZ Qineo
X2B	alternativ	
X2B	0043620010	Central connection Euro Qineo
X5	0010092510	Bulkhead mounted housings HAN3A/7D, Metall
X5	0010092515	socket insert 12pol.
X5	0010091830	crimp contact bush 0,5 HAN D
X5	0010092524	coding pin Han Q12
3X2	0073032750	welding-current connection M12
3X8	0010110071	Bulkhead mounted housings HAN6E
3X8	0010091316	multiple plug HAN 24DD
3X8	0010091804	crimp contact pin 0,5 HAN D
XB_SZ	0010030300	electric socket

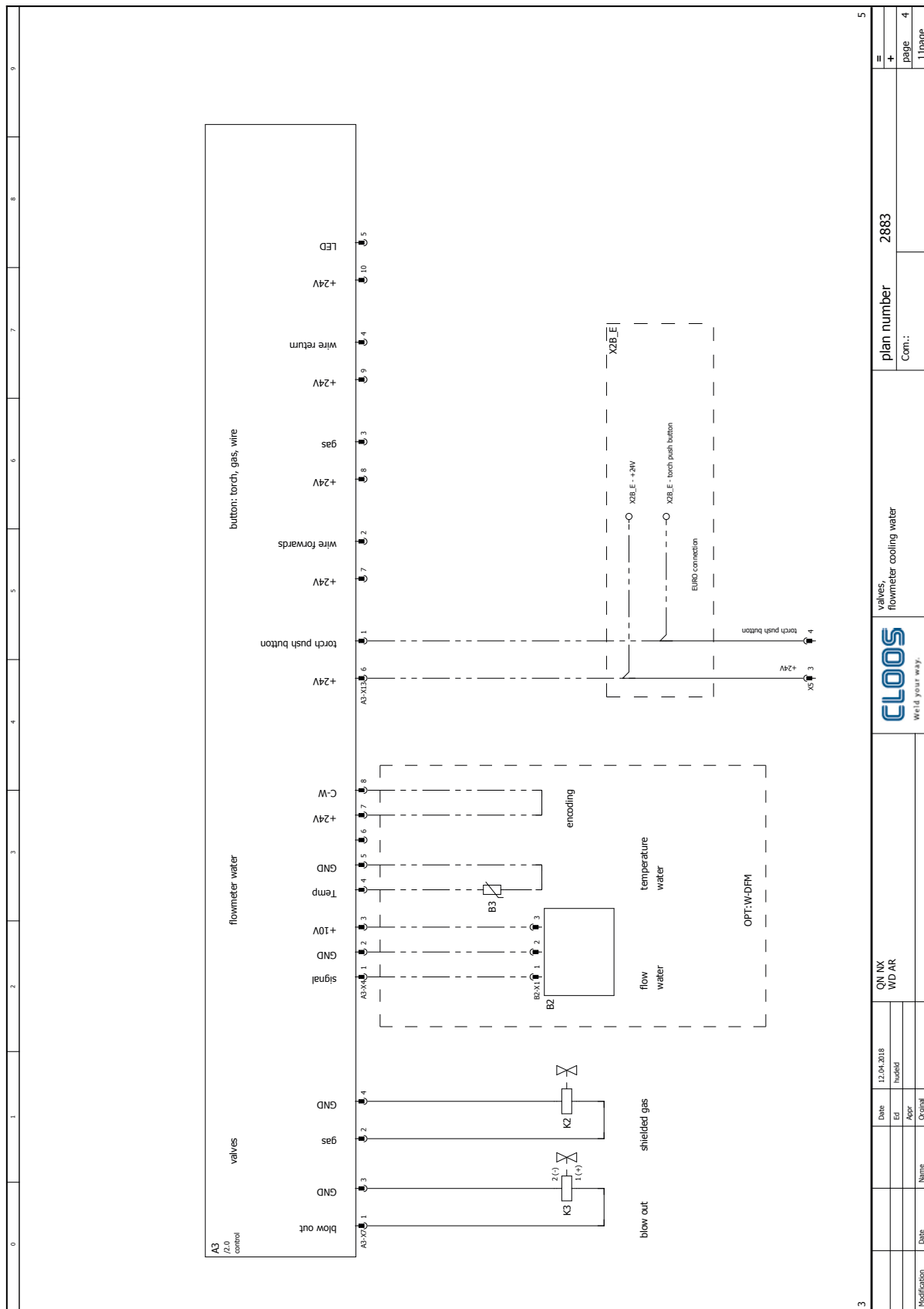
Circuit No. QN NX WD AR 2883

Compare the circuit number with the one of your machine

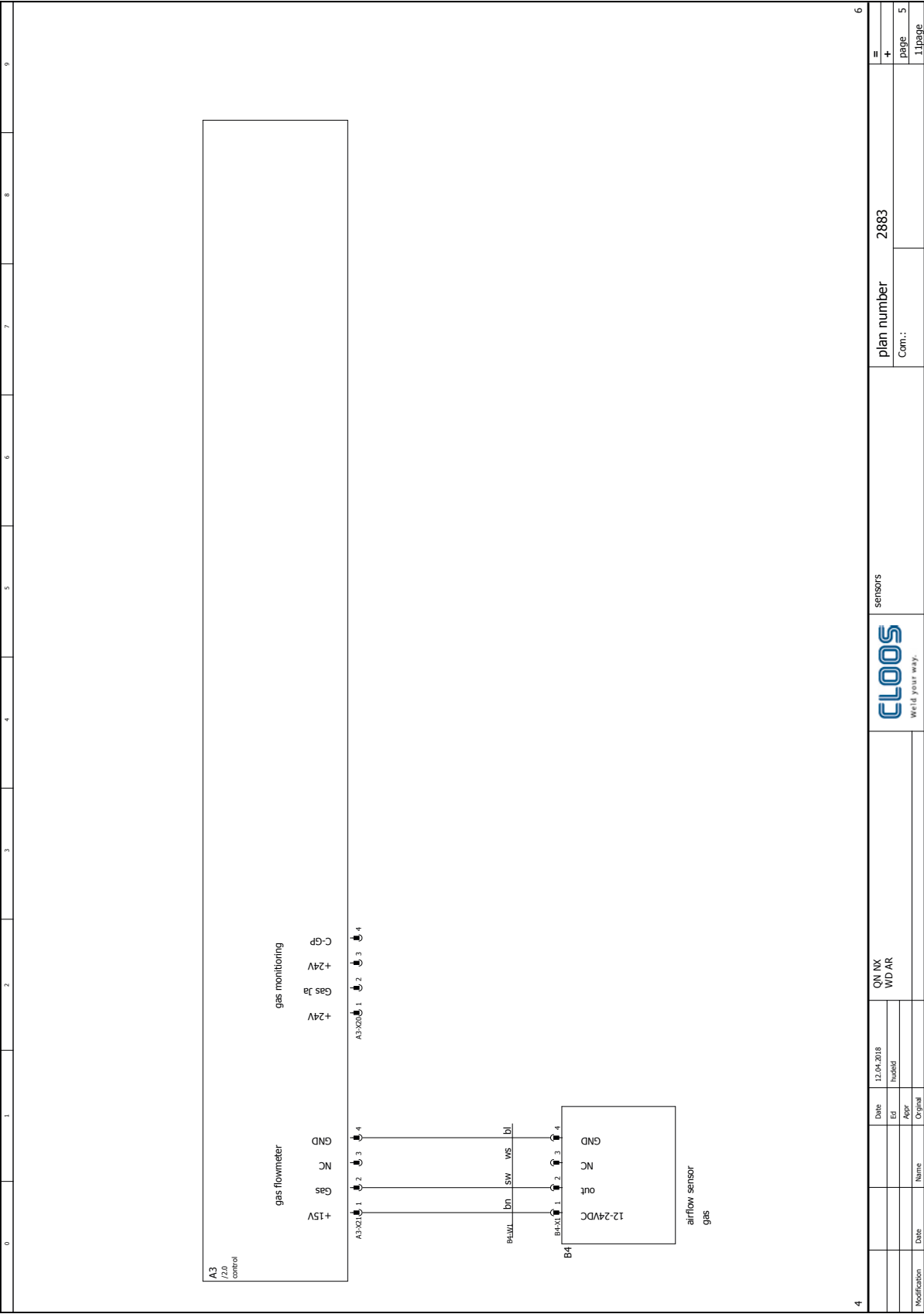




Circuit No. QN NX WD AR 2883 Compare the circuit number with the one of your machine



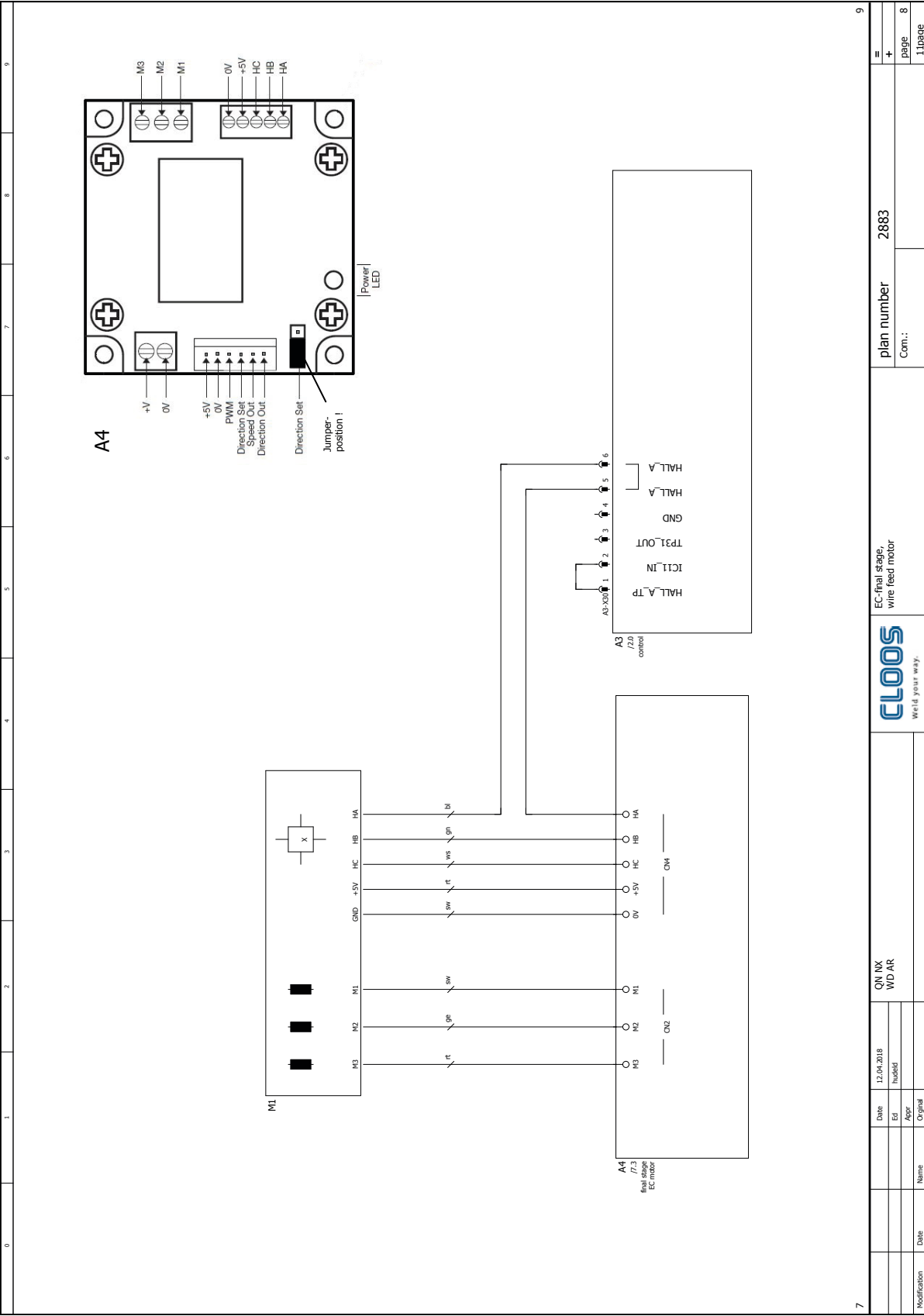
Circuit No. QN NX WD AR 2883
Compare the circuit number with the one of your machine



plan number 2883

Com.:





Circuit No. QN NX WD AR 2883
Compare the circuit number with the one of your machine

Electrical parts list - Circuit No. 2883 (QWD "AR")

Pos.	Part number.	Designation
A3	0033334100	QWD-AR, control
A3-X1	0011043108	8pol. housing for bushes MICRO MNL
A3-X1	0011043100	bush MICRO MNL 24-20AWG
A3-X2	0011043004	4pol. housing for bushes Mini Universal MNL
A3-X2	0011043000	bush Mini Universal 20-16AWG
A3-X4	0011042200	bush strip 5pol.
A3-X7	0011043104	4pol. housing for bushes MICRO MNL
A3-X7	0011043100	bush MICRO MNL 24-20AWG
A3-X8	0011043012	12pol. housing for bushes Mini Universal MNL
A3-X8	0011043000	bush Mini Universal 20-16AWG
A3-X9	AN A4-1-W1	
A3-X12	0011043108	8pol. housing for bushes MICRO MNL
A3-X12	0011043100	bush MICRO MNL 24-20AWG
A3-X12.1	0011043104	4pol. housing for bushes MICRO MNL
A3-X12.1	0011043100	bush MICRO MNL 24-20AWG
A3-X13	0011043110	10pol. housing for bushes MICRO MNL
A3-X13	0011043100	bush MICRO MNL 24-20AWG
A3-X16	0011043112	12pol. housing for bushes MICRO MNL
A3-X16	0011043100	bush MICRO MNL 24-20AWG
A3-X17	0011043104	4pol. housing for bushes MICRO MNL
A3-X17	0011043100	bush MICRO MNL 24-20AWG
A3-X21	0011043104	4pol. housing for bushes MICRO MNL
A3-X21	0011043100	bush MICRO MNL 24-20AWG
A3-X24	0011043106	6pol. housing for bushes MICRO MNL
A3-X24	0011043100	bush MICRO MNL 24-20AWG
A3-X26	0011043104	4pol. housing for bushes MICRO MNL
A3-X26	0011043100	bush MICRO MNL 24-20AWG
A3-X30	0011043106	6pol. housing for bushes MICRO MNL
A3-X30	0011043100	bush MICRO MNL 24-20AWG
A4	0024142880	QWD-AR, final stage EC-motor
A4-1	0033334200	QWD-AR / QWD-I, final stage
A4-1-W1	0038134930	connection cable 16pol. / 70mm long
A4-1-X1	0011043004	4pol. housing for bushes Mini Universal MNL
A4-1-X1	0011043000	bush Mini Universal 20-16AWG
A4-1-X2	0011043004	4pol. housing for bushes Mini Universal MNL
A4-1-X2	0011043000	bush Mini Universal 20-16AWG
A4-1-X4	0011043104	4pol. housing for bushes MICRO MNL
A4-1-X4	0011043100	bush MICRO MNL 24-20AWG
A4-1-X5	AN A4-1-W1	
A4-CN3	0011036725	bushes housing 6pol.
A4-CN3	0011036715	crimp contact
A5	0033334300	QWD-AR intermediate circuit card
A5-1	0033252850	DC/DC-converter 43-105V/24V, 150W
A5-X1	0011043006	6pol. housing for bushes Mini Universal MNL
A5-X1	0011043000	bush Mini Universal 20-16AWG
A6	0832801110	QWD-AR operation foil
B4	0016070900	flowmeter Ar, 0-50 l/min
B4-W1	0016070910	connection cable for Sensor 0016070900
B4-X1	AN B4-W1	
B6	0043630020	pressure roller bow SD with encoder
K2	0032020510	solenoid-valve 24V/DC
K3	0032028500	2/2- way-valve 24V/DC
M1	0024142930	EC wire feed motor BL5774 with 14:1
OPT-CDD	0892806060	installations kit QN NX WD AR, Q-CDD_8
OPT-CDD-A3-X12	0011043106	6pol. housing for bushes MICRO MNL
OPT-CDD-A3-X12	0011043100	bush MICRO MNL 24-20AWG
OPT-CDD-A3-X17	0011043104	4pol. housing for bushes MICRO MNL
OPT-CDD-A3-X17	0011043100	bush MICRO MNL 24-20AWG
OPT-CDD-A4-1-X3	0011043004	4pol. housing for bushes Mini Universal MNL
OPT-CDD-A4-1-X3	0011043000	bush Mini Universal 20-16AWG

Pos.	Part number.	Designation
OPT-CDD-A4-1-X6	0011043110	10pol. housing for bushes MICRO MNL
OPT-CDD-A4-1-X6	0011043100	bush MICRO MNL 24-20AWG
OPT-CDD-C1	0021020205	capacitor 10nF 630V
OPT-CDD-C2	0021020205	capacitor 10nF 630V
OPT-CDD-C3	0021020205	capacitor 10nF 630V
OPT-CDD-X6	0010092510	Bulkhead mounted housings HAN3A/7D, Metall
OPT-CDD-X6	0010092515	socket insert 12pol.
OPT-CDD-X6	0010091830	crimp contact bush 0,5 HAN D
OPT-CDD-X6	0010092524	coding pin Han Q12
OPT:W-DFM	0831002010	installations kit water flowmeter QWD-A
OPT:W-DFM-A3-X4	0011043108	8pol. housing for bushes MICRO MNL
OPT:W-DFM-A3-X4	0011043100	bush MICRO MNL 24-20AWG
OPT:W-DFM-B2	0016070800	Flowmeter FHKC RYTON G1/4
OPT:W-DFM-B2-X1	0011039710	bush strip 3pol. 3,96mm IDT0,3 - 0,4
OPT:W-DFM-B2-X1	0011039711	cap for 3pol. bush strip
OPT:W-DFM-B3	0030040411	NTC 10K
VSP-W1	0038077210	cable 4x1+2x2x0,25+10x0,5mm ²
VSP-W2	0038030500	welding cable 95mm ² HO1N2-D
VSP-1X2	0073031100	welding cable plug 70/95mm ²
VSP-1X8	0010091320	plug-housing 24DD
VSP-1X8	0010091316	multiple plug HAN 24DD
VSP-1X8	0010091803	crimp contact pin 1,0 HAN D
VSP-1X8	0010091804	crimp contact pin 0,5 HAN D
VSP-1X8	0010091805	crimp contact pin 0,14-0,37 HAN D
VSP-1X8	0035036100	screwed cable gland M25
VSP-2X2	0034060004	cable-shoe 95mm ²
VSP-2X8	0010091320	plug-housing 24DD
VSP-2X8	0010091315	socket insert HAN24DD
VSP-2X8	0010091810	crimp contact bush 1,0 HAN D
VSP-2X8	0010091830	crimp contact bush 0,5 HAN D
VSP-2X8	0010091880	crimp contact bush 0,14-0,37HAN/D
VSP-2X8	0035036100	screwed cable gland M25
X2B	0043620040	Central connection SZ Qineo
X2B	alternativ	
X2B	0043620010	Central connection Euro Qineo
X5	0010092510	Bulkhead mounted housings HAN3A/7D, Metall
X5	0010092515	socket insert 12pol.
X5	0010091830	crimp contact bush 0,5 HAN D
X5	0010092524	coding pin Han Q12
3X2	0073032750	welding-current connection M12
3X8	0010110071	Bulkhead mounted housings HAN6E
3X8	0010091316	multiple plug HAN 24DD
3X8	0010091804	crimp contact pin 0,5 HAN D



Weld your way.