CONNECTOR	SIGNAL	PIN	Function	CONNECTOR	TERMINALS	Pin Name		Maximal current	DESCRIPTION	Power supply/Range
SAFETY	FAN4-TCH	1	FAN4	X2501	62040021722	NOT SUPPORTED	I		FAN 4 SPEED SENSING	
	FAN4-PWM	2				OUTPUT_PIN_FAN4_PWM_CPU	O	150mA	FAN 4 SPEED CONTROL	
	HALT	3	SAFETY				I/O		HALT-BUS I/O	
	DRIVER-DIS	4					I		DRIVER DISABLE (STOP BUTTON LOOP)	
	ESTOP1	5				INPUT_DIGITAL_PIN_ESTOP_1	I		EMERGENCY STOP 1 DETECT	
	STOPLED1	6				OUTPUT_PIN_STOPLED_CPU_1	O	200mA	EMERGENCY STOP LED 1	
	ESTOP2	7				INPUT_DIGITAL_PIN_ESTOP_2	I		EMERGENCY STOP 2 DETECT	
	STOPLED2	8				OUTPUT_PIN_STOPLED_CPU_2	O	200mA	EMERGENCY STOP LED 2	
	FAN4-VCC	9	FAN4			OUTPUT_PIN_FAN4_ON	P	700mA	FAN 4 POWER OUTPUT	Power: PB-DRV
	FAN4-GND	10					P	-	FAN 4 GROUND	
	HALT-GND	11	SAFETY				P	-	HALT-BUS GROUND	
	DRIVER-DIS-VCC	12					P	700mA	DRIVER DISABLE (STOP BUTTON LOOP)	Power: PB-PRI
	ESTOP1-VCC	13					P	700mA	EMERGENCY STOP 1 DETECT REFERENCE	Power: PB-PRI
	STOPLED1-VCC	14					P		EMERGENCY STOP LED 1	
	ESTOP2-VCC	15					P	700mA	EMERGENCY STOP 2 DETECT REFERENCE	Power: PB-PRI
	STOPLED2-VCC	16					P		EMERGENCY STOP LED	
FAN 1	FAN1-GND	1	FAN 1	X1701	47053-1000		P		FAN 1 GROUND	
	FAN1-VCC	2				OUTPUT_PIN_FAN1_ON	P	700mA	FAN 1 POWER	Power: PB-UPS
	FAN1-TCH	3				NOT SUPPORTED	I		FAN 1 SPEED SENSING	
	FAN1-PWM	4					O		FAN 1 SPEED CONTROL	
FAN 2	FAN2-GND	1	FAN 2	X1702	47053-1000		P		FAN 2 GROUND	
	FAN2-VCC	2				OUTPUT_PIN_FAN2_ON	P	700mA	FAN 2 POWER	Power: PB-UPS
	FAN2-TCH	3				NOT SUPPORTED	I		FAN 2 SPEED SENSING	
	FAN2-PWM	4					O		FAN 2 SPEED CONTROL	
LOADS 3	VO0	B1	HIGH POWER OUTPUT	X1605	4803	OUTPUT_PIN_VO_0		6A	DRIVER SWITCH OUTPUT 0	Power selection options VBB-1: PB-DRV, PB-12V.
	VO8	B2				OUTPUT_PIN_VO_8		6A	DRIVER SWITCH OUTPUT 8	Power selection options VBB-2: PB-DRV, PB-12V.
	VO1	B3				OUTPUT_PIN_VO_1		6A	DRIVER SWITCH OUTPUT 1	Power selection options VBB-1: PB-DRV, PB-12V.
	VO9	B4				OUTPUT_PIN_VO_9		6A	DRIVER SWITCH OUTPUT 9	Power selection options VBB-2: PB-DRV, PB-12V.
	VO2	B5				OUTPUT_PIN_VO_2		6A	DRIVER SWITCH OUTPUT 2	Power selection options VBB-1: PB-DRV, PB-12V.
	VO10	B6				OUTPUT_PIN_VO_10		6A	DRIVER SWITCH OUTPUT 10	Power selection options VBB-2: PB-DRV, PB-12V.
	VO3	B7				OUTPUT_PIN_VO_3		6A	DRIVER SWITCH OUTPUT 3	Power selection options VBB-1: PB-DRV, PB-12V.
	VO11	B8				OUTPUT_PIN_VO_11		6A	DRIVER SWITCH OUTPUT 11	Power selection options VBB-2: PB-DRV, PB-12V.
	VO4	B9				OUTPUT_PIN_VO_4	O	6A	DRIVER SWITCH OUTPUT 4	Power selection options VBB-1: PB-DRV, PB-12V.
	VO12	B10				OUTPUT_PIN_VO_12	O	6A	DRIVER SWITCH OUTPUT 12	Power selection options VBB-2: PB-DRV, PB-12V.

	Name	Pin	Type			Signal	I/O	Rating	Description	Power Selection
	VO0-GND	B11		X	3		P		DRIVER SWITCH OUTPUT 0 GROUND	
	VO8-GND	B12					P		DRIVER SWITCH OUTPUT 8 GROUND	
	VO1-GND	B13					P		DRIVER SWITCH OUTPUT 1 GROUND	
	VO9-GND	B14					P		DRIVER SWITCH OUTPUT 9 GROUND	
	VO2-GND	B15	HIGH POWER OUTPUT				P		DRIVER SWITCH OUTPUT 2 GROUND	
	VO10-GND	B16					P		DRIVER SWITCH OUTPUT 10 GROUND	
	VO3-GND	B17					P		DRIVER SWITCH OUTPUT 3 GROUND	
	VO11-GND	B18					P		DRIVER SWITCH OUTPUT 11 GROUND	
	VO4-GND	B19					P		DRIVER SWITCH OUTPUT 4 GROUND	
	VO12-GND	B20					P		DRIVER SWITCH OUTPUT 12 GROUND	
	VO5	B1				OUTPUT_PIN_VO_5	O	6A	DRIVER SWITCH OUTPUT 5	Power selection options VBB-1: PB-DRV, PB-12V.
	VO13	B2				OUTPUT_PIN_VO_13	O	6A	DRIVER SWITCH OUTPUT 13	Power selection options VBB-2: PB-DRV, PB-12V.
	VO6	B3				OUTPUT_PIN_VO_6	O	6A	DRIVER SWITCH OUTPUT 6	Power selection options VBB-1: PB-DRV, PB-12V.
	VO18	B4				OUTPUT_PIN_VO_18	O	6A	DRIVER SWITCH OUTPUT 18	Power selection options VBB-3: PB-DRV, PB-12V.
	VO7	B5	HIGH POWER OUTPUT			OUTPUT_PIN_VO_7	O	6A	DRIVER SWITCH OUTPUT 7	Power selection options VBB-1: PB-DRV, PB-12V.
	VO19	B6				OUTPUT_PIN_VO_19	O	6A	DRIVER SWITCH OUTPUT 19	Power selection options VBB-3: PB-DRV, PB-12V.
	VO14	B7				OUTPUT_PIN_VO_14	O	6A	DRIVER SWITCH OUTPUT 14	Power selection options VBB-4: PB-DRV, PB-12V.
	VO20	B8				OUTPUT_PIN_VO_20	O	6A	DRIVER SWITCH OUTPUT 20	Power selection options VBB-3: PB-DRV, PB-12V.
	VO15	B9				OUTPUT_PIN_VO_15	O	6A	DRIVER SWITCH OUTPUT 15	Power selection options VBB-4: PB-DRV, PB-12V.
LOADS 2	VO21	B10		X1504	34803	OUTPUT_PIN_VO_21	O	6A	DRIVER SWITCH OUTPUT 21	Power selection options VBB-3: PB-DRV, PB-12V.
	VO5-GND	B11					P		DRIVER SWITCH OUTPUT 5 GROUND	
	VO13-GND	B12					P		DRIVER SWITCH OUTPUT 13 GROUND	
	VO6-GND	B13					P		DRIVER SWITCH OUTPUT 6 GROUND	
	VO18-GND	B14					P		DRIVER SWITCH OUTPUT 18 GROUND	
	VO7-GND	B15	HIGH POWER OUTPUT				P		DRIVER SWITCH OUTPUT 7 GROUND	
	VO19-GND	B16					P		DRIVER SWITCH OUTPUT 19 GROUND	
	VO14-GND	B17					P		DRIVER SWITCH OUTPUT 14 GROUND	
	VO20-GND	B18					P		DRIVER SWITCH OUTPUT 20 GROUND	
	VO15-GND	B19					P		DRIVER SWITCH OUTPUT 15 GROUND	
	VO21-GND	B20					P		DRIVER SWITCH OUTPUT 21 GROUND	
	VO16	B1				OUTPUT_PIN_VO_16	O	6A	DRIVER SWITCH OUTPUT 16	Power selection options VBB-4: PB-DRV, PB-12V.
	VO22	B2				OUTPUT_PIN_VO_22	O	6A	DRIVER SWITCH OUTPUT 22	Power selection options VBB-5: PB-DRV, PB-12V.
	VO17	B3				OUTPUT_PIN_VO_17	O	6A	DRIVER SWITCH OUTPUT 17	Power selection options VBB-4: PB-DRV, PB-12V.
	VO23	B4				OUTPUT_PIN_VO_23	O	6A	DRIVER SWITCH OUTPUT 23	Power selection options VBB-5: PB-DRV, PB-12V.
	VO26	B5	HIGH POWER OUTPUT			OUTPUT_PIN_VO_26	O	6A	DRIVER SWITCH OUTPUT 26	Power selection options VBB-6: PB-DRV, PB-12V.
	VO24	B6				OUTPUT_PIN_VO_24	O	6A	DRIVER SWITCH OUTPUT 24	Power selection options VBB-5: PB-DRV, PB-12V.
	VO27	B7				OUTPUT_PIN_VO_27	O	6A	DRIVER SWITCH OUTPUT 27	Power selection options VBB-6: PB-DRV, PB-12V.
	VO25	B8				OUTPUT_PIN_VO_25	O	6A	DRIVER SWITCH OUTPUT 25	Power selection options VBB-5: PB-DRV, PB-12V.
	VO28	B9				OUTPUT_PIN_VO_28	O	6A	DRIVER SWITCH OUTPUT 28	Power selection options VBB-6: PB-DRV, PB-12V.
LOADS 1	VO29	B10		X1403	34803	OUTPUT_PIN_VO_29	O	6A	DRIVER SWITCH OUTPUT 29	Power selection options VBB-6: PB-DRV, PB-12V.
	VO16-GND	B11					P		DRIVER SWITCH OUTPUT 16	
	VO22-GND	B12					P		DRIVER SWITCH OUTPUT 22	

	VO17-GND	B13				P		DRIVER SWITCH OUTPUT 17	
	VO23-GND	B14				P		DRIVER SWITCH OUTPUT 23	
	VO26-GND	B15	HIGH POWER			P		DRIVER SWITCH OUTPUT 26	
	VO24-GND	B16	OUTPUT			P		DRIVER SWITCH OUTPUT 24	
	VO27-GND	B17				P		DRIVER SWITCH OUTPUT 27	
	VO25-GND	B18				P		DRIVER SWITCH OUTPUT 25	
	VO28-GND	B19				P		DRIVER SWITCH OUTPUT 28	
	VO29-GND	B20				P		DRIVER SWITCH OUTPUT 29	
H-BRIDGES 1, 2, 3, 4 / POWER AMP / FAN 3	PA-OUT-RA	B1	POWER AMP	X1307	34803	NOT SUPPORTED	O		POWER AMP RIGHT OUTPUT +	
	PA-OUT-RB	B2				NOT SUPPORTED	O		POWER AMP RIGHT OUTPUT -	
	GND	B3					P		POWER AMP RIGHT INPUT +	
	PA-IN-R	B4				NOT SUPPORTED	I		POWER AMP RIGHT INPUT -	
	GND	B5	FAN 3				P		FAN 3 GROUND	
	FAN3-VCC	B6				OUTPUT_PIN_FAN3_ON	P	700mA	FAN 3 POWER	Power: PB-DRV
	HB0B	B7	H-BRIDGE 0			OUTPUT_PIN_HB0_PHB	O	2A***	H-BRIDGE 0 PHASE B	Power selection options VBB-HB0-1: PB-DRV, PB-12V.
	HB1B	B8	H-BRIDGE 1			OUTPUT_PIN_HB1_PHB	O	2A***	H-BRIDGE 1 PHASE B	Power selection options VBB-HB0-1: PB-DRV, PB-12V.
	HB2B	B9	H-BRIDGE 2			OUTPUT_PIN_HB2_PHB	O	2A***	H-BRIDGE 2 PHASE B	Power selection options VBB-HB2-3: PB-DRV, PB-12V.
	HB3B	B10	H-BRIDGE 3			OUTPUT_PIN_HB3_PHB	O	2A***	H-BRIDGE 3 PHASE B	Power selection options VBB-HB2-3: PB-DRV, PB-12V.
	PA-OUT-LB	B11	POWERAMP			NOT SUPPORTED	O		POWER AMP LEFT OUTPUT +	
	PA-OUT-LA	B12				NOT SUPPORTED	O		POWER AMP LEFT OUTPUT -	
	GND	B13					P		POWER AMP LEFT INPUT +	
	PA-IN-L	B14				NOT SUPPORTED	I		POWER AMP LEFT INPUT -	
	FAN3-TCH	B15	FAN 3			NOT SUPPORTED	I		FAN 3 SPEED SENSING	
	FAN3-PWM	B16				OUTPUT_PIN_FAN3_PWM_CPU	O	150mA	FAN 3 SPEED CONTROL	
	HB0A	B17	H-BRIDGE 0			OUTPUT_PIN_HB0_PHA	O	2A***	H-BRIDGE 0 PHASE A	Power selection options VBB-HB0-1: PB-DRV, PB-12V.
	HB1A	B18	H-BRIDGE 1			OUTPUT_PIN_HB1_PHA	O	2A***	H-BRIDGE 1 PHASE A	Power selection options VBB-HB0-1: PB-DRV, PB-12V.
	HB2A	B19	H-BRIDGE 2			OUTPUT_PIN_HB2_PHA	O	2A***	H-BRIDGE 2 PHASE A	Power selection options VBB-HB2-3: PB-DRV, PB-12V.
	HB3A	B20	H-BRIDGE 3			OUTPUT_PIN_HB3_PHA	O	2A***	H-BRIDGE 3 PHASE A	Power selection options VBB-HB2-3: PB-DRV, PB-12V.
H POWER OUTPUTS / SWITCHERS 4, 5 / SYSTEM-MAIN-ON-OFF	HB4A	B1	H-BRIDGE 4	X1308	34803	OUTPUT_PIN_HB5_PHA	O	2A***	H-BRIDGE 4 PHASE A	Power selection options VBB-HB4-5: PB-DRV, PB-12V.
	HB5A	B2	H-BRIDGE 5			OUTPUT_PIN_HB4_PHA	O	2A***	H-BRIDGE 5 PHASE A	Power selection options VBB-HB4-5: PB-DRV, PB-12V.
	SYSTEM-ON	B3	SAFETY				I		MANUAL MAIN RELAY ENGAGE	
	VOS5	B4	STEP-DOWN 5			OUTPUT_PIN_EN_S5	P	6A	SWITCHER 5 VOLTAGE OUTPUT	Power selection options VBB-S5: PB-DRV, PB-UPS.
	VOS4	B5	STEP-DOWN 4			OUTPUT_PIN_EN_S4	P	6A*	SWITCHER 4 VOLTAGE OUTPUT (PC)	Power selection options VBB-S4: PB-DRV, PB-UPS.
	VOS4	B6					P		SWITCHER 4 VOLTAGE OUTPUT (PC)	
	VO58	B7	HIGH POWER OUTPUT			OUTPUT_PIN_VO_58	O	6A	DRIVER SWITCH OUTPUT 58	Power selection options VBB-7: PB-UPS.
	VO60	B8				OUTPUT_PIN_VO_60	O	6A	DRIVER SWITCH OUTPUT 59	Power selection options VBB-7: PB-UPS.
	VO59	B9				OUTPUT_PIN_VO_59	O	6A	DRIVER SWITCH OUTPUT 60	Power selection options VBB-8: PB-UPS.
	VO61	B10				OUTPUT_PIN_VO_61	O	6A	DRIVER SWITCH OUTPUT 61	Power selection options VBB-8: PB-UPS.
	HB4B	B11	H-BRIDGE 4			OUTPUT_PIN_HB4_PHB	O	2A***	H-BRIDGE 4 PHASE B	Power selection options VBB-HB4-5: PB-DRV, PB-12V.
	HB5B	B12	H-BRIDGE 5			OUTPUT_PIN_HB5_PHB	O	2A***	H-BRIDGE 5 PHASE B	Power selection options VBB-HB4-5: PB-DRV, PB-12V.
	SYSTEM-ON-GND	B13	SAFETY				P		MANUAL MAIN RELAY ENGAGE REFERENCE GROUND	
	VOS5-GND	B14	STEP-DOWN 5				P		SWITCHER 5 VOLTAGE OUTPUT GROUND	

H-BRIDGES 5, 6 / HIG	VOS4-GND	B15	STEP-DOWN 4				P		SWITCHER 4 VOLTAGE OUTPUT (PC) GROUND	
	VOS4-GND	B16					P		SWITCHER 4 VOLTAGE OUTPUT (PC) GROUND	
	VO58-GND	B17	HIGH POWER OUTPUT				P	6A	DRIVER SWITCH OUTPUT 58 GROUND	
	VO60-GND	B18					P	6A	DRIVER SWITCH OUTPUT 59 GROUND	
	VO59-GND	B19					P	6A	DRIVER SWITCH OUTPUT 60 GROUND	
	VO61-GND	B20					P	6A	DRIVER SWITCH OUTPUT 61 GROUND	
LOW POWER OUTPUTS 1	VO46	A1	LOW POWER OUTPUT	X1104	34803	OUTPUT_PIN_VO_46	O	1A	DRIVER SWITCH OUTPUT 46	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO47	A2				OUTPUT_PIN_VO_47	O	1A	DRIVER SWITCH OUTPUT 47	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO48	A3				OUTPUT_PIN_VO_48	O	1A	DRIVER SWITCH OUTPUT 48	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO49	A4				OUTPUT_PIN_VO_49	O	1A	DRIVER SWITCH OUTPUT 49	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO42	A5				OUTPUT_PIN_VO_42	O	1A	DRIVER SWITCH OUTPUT 42	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO43	A6				OUTPUT_PIN_VO_43	O	1A	DRIVER SWITCH OUTPUT 43	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO44	A7				OUTPUT_PIN_VO_44	O	1A	DRIVER SWITCH OUTPUT 44	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO45	A8				OUTPUT_PIN_VO_45	O	1A	DRIVER SWITCH OUTPUT 45	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO38	A9				OUTPUT_PIN_VO_38	O	1A	DRIVER SWITCH OUTPUT 38	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO39	A10				OUTPUT_PIN_VO_39	O	1A	DRIVER SWITCH OUTPUT 39	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO46-GND	A11	LOW POWER OUTPUT				P		DRIVER SWITCH OUTPUT 46 GROUND	
	VO47-GND	A12					P		DRIVER SWITCH OUTPUT 47 GROUND	
	VO48-GND	A13					P		DRIVER SWITCH OUTPUT 48 GROUND	
	VO49-GND	A14					P		DRIVER SWITCH OUTPUT 49 GROUND	
	VO42-GND	A15					P		DRIVER SWITCH OUTPUT 42 GROUND	
	VO43-GND	A16					P		DRIVER SWITCH OUTPUT 43 GROUND	
	VO44-GND	A17					P		DRIVER SWITCH OUTPUT 44 GROUND	
	VO45-GND	A18					P		DRIVER SWITCH OUTPUT 45 GROUND	
	VO38-GND	A19					P		DRIVER SWITCH OUTPUT 38 GROUND	
	VO39-GND	A20					P		DRIVER SWITCH OUTPUT 39 GROUND	
LOW POWER OUTPUTS 2	VO40	A1	LOW POWER OUTPUT	X1105	34803	OUTPUT_PIN_VO_40	O	1A	DRIVER SWITCH OUTPUT 40	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO41	A2				OUTPUT_PIN_VO_41	O	1A	DRIVER SWITCH OUTPUT 41	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO34	A3				OUTPUT_PIN_VO_34	O	1A	DRIVER SWITCH OUTPUT 34	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO35	A4				OUTPUT_PIN_VO_35	O	1A	DRIVER SWITCH OUTPUT 35	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO36	A5				OUTPUT_PIN_VO_36	O	1A	DRIVER SWITCH OUTPUT 36	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO37	A6				OUTPUT_PIN_VO_37	O	1A	DRIVER SWITCH OUTPUT 30	Power selection options VBB-12: PB-DRV, PB-12V,PB-UPS.
	VO30	A7				OUTPUT_PIN_VO_30	O	1A	DRIVER SWITCH OUTPUT 31	Power selection options VBB-11: PB-DRV, PB-12V,PB-UPS.
	VO31	A8				OUTPUT_PIN_VO_31	O	1A	DRIVER SWITCH OUTPUT 32	Power selection options VBB-11: PB-DRV, PB-12V,PB-UPS.
	VO32	A9				OUTPUT_PIN_VO_32	O	1A	DRIVER SWITCH OUTPUT 33	Power selection options VBB-11: PB-DRV, PB-12V,PB-UPS.
	VO33	A10				OUTPUT_PIN_VO_33	O	1A	DRIVER SWITCH OUTPUT 34	Power selection options VBB-11: PB-DRV, PB-12V,PB-UPS.
	VO40-GND	A11	LOW POWER OUTPUT				P		DRIVER SWITCH OUTPUT 40 GROUND	
	VO41-GND	A12					P		DRIVER SWITCH OUTPUT 41 GROUND	
	VO34-GND	A13					P		DRIVER SWITCH OUTPUT 34 GROUND	
	VO35-GND	A14					P		DRIVER SWITCH OUTPUT 35 GROUND	
	VO36-GND	A15					P		DRIVER SWITCH OUTPUT 36 GROUND	
	VO37-GND	A16					P		DRIVER SWITCH OUTPUT 30 GROUND	

	VO30-GND	A17					P		DRIVER SWITCH OUTPUT 31 GROUND	
	VO31-GND	A18					P		DRIVER SWITCH OUTPUT 32 GROUND	
	VO32-GND	A19					P		DRIVER SWITCH OUTPUT 33 GROUND	
	VO33-GND	A20					P		DRIVER SWITCH OUTPUT 34 GROUND	
CAN / COM 2 / SWITCHER 1, 2, 3	VOS-1	A1	STEP-DOWN 1			OUTPUT_PIN_EN_S1	P	6A	SWITCHER 1 VOLTAGE OUTPUT	Power selection options VBB-S1: PB-DRV, PB-UPS.
	VOS-2	A2	STEP-DOWN 2			OUTPUT_PIN_EN_S2	P	6A	SWITCHER 2 VOLTAGE OUTPUT	Power selection options VBB-S2: PB-DRV, PB-UPS.
	VOS-GND-3	A3	STEP-DOWN 3				P		SWITCHER 3 VOLTAGE OUTPUT GROUND	
	VOS-3	A4	STEP-DOWN 3			OUTPUT_PIN_EN_S3	P	6A	SWITCHER 3 VOLTAGE OUTPUT	Power selection options VBB-S3: PB-DRV, PB-UPS.
	CAN-BAT-GND	A5	BATTERY CAN				P		BATTERY CAN BUS GROUND	
	VO54	A6				OUTPUT_PIN_VO_54	O	1A	DRIVER SWITCH OUTPUT 54	Power selection options VBB-9: PB-DRV, PB-12V,PB-UPS.
	CAN-MOT-GND	A7	MOTOR CAN				P		MOTOR CAN BUS GROUND	
	VO55	A8				OUTPUT_PIN_VO_55	O	1A	DRIVER SWITCH OUTPUT 55	Power selection options VBB-9: PB-DRV, PB-12V,PB-UPS.
	COM2-GND	A9	COM 2	X1001	34803		P		COM2 SERIAL GROUND	
	VO56	A10				OUTPUT_PIN_VO_56	O	1A	DRIVER SWITCH OUTPUT 56	Power selection options VBB-9: PB-DRV, PB-12V,PB-UPS.
	VOS-GND-1	A11	STEP-DOWN 1				P		SWITCHER 1 VOLTAGE OUTPUT GROUND	
	VOS-GND-2	A12	STEP-DOWN 2				P		SWITCHER 2 VOLTAGE OUTPUT GROUND	
	CAN-BAT-L	A13	BATTERY CAN			NOT SUPPORTED	I/O		BATTERY CAN BUS LOW	
	CAN-BAT-H	A14				NOT SUPPORTED	I/O		BATTERY CAN BUS HIGH	
	CAN-MOT-L	A15	MOTOR CAN			NOT SUPPORTED	I/O		MOTOR CAN BUS LOW	
	CAN-MOT-H	A16				NOT SUPPORTED	I/O		MOTOR CAN BUS HIGH	
	COM2-Z	A17	COM 2			NOT SUPPORTED	O		COM 2 SERIAL 485 Z	
	COM2-Y	A18				NOT SUPPORTED	O		COM 2 SERIAL 485 Y	
	COM2-B	A19				NOT SUPPORTED	I/O		COM 2 SERIAL 485 B	
	COM2-A	A20				NOT SUPPORTED	I/O		COM 2 SERIAL 485 A	
COM 1, 3, 4, 6 / PERIPHERAL POWER DRIVERS	COM6-GND	A1	COM 6				P		COM 6 GROUND	
	VO-57	A2				OUTPUT_PIN_VO_57	O	1A	COM 6 POWER (SWITCH OUTPUT 57)	Power selection options VBB-9: PB-DRV, PB-12V,PB-UPS.
	COM5-GND	A3	COM 5				P		COM 5 GROUND	
	VO-50	A4				OUTPUT_PIN_VO_50	O	1A	COM 5 POWER (SWITCH OUTPUT 50)	Power selection options VBB-10: PB-DRV, PB-12V,PB-UPS.
	COM4-GND	A5	COM 4				P		COM 4 GROUND	
	VO-51	A6				OUTPUT_PIN_VO_51	O	1A	COM 4 POWER (SWITCH OUTPUT 51)	Power selection options VBB-10: PB-DRV, PB-12V,PB-UPS.
	COM3-GND	A7	COM 3				P		COM 3 GROUND	
	VO52	A8				OUTPUT_PIN_VO_52	O	1A	COM 3 POWER (SWITCH OUTPUT 52)	Power selection options VBB-10: PB-DRV, PB-12V,PB-UPS.
	COM1-GND	A9	COM 1	X1002	34803		P		COM 1 GROUND	
	VO53	A10				OUTPUT_PIN_VO_53	O	1A	COM 1 POWER (SWITCH OUTPUT 53)	Power selection options VBB-10: PB-DRV, PB-12V,PB-UPS.
	COM6-B	A11	COM 6			NOT SUPPORTED	I/O		COM 6 RS485 B / RS232 RX	
	COM6-A	A12				NOT SUPPORTED	I/O		COM 6 RS485 A / RS232 TX	
	COM5-B	A13	COM 5			NOT SUPPORTED	I/O		COM 5 RS485 B / RS232 RX	
	COM5-A	A14				NOT SUPPORTED	I/O		COM 5 RS485 A / RS232 TX	
	COM4-B	A15	COM 4			NOT SUPPORTED	I/O		COM 4 RS485 B / RS232 RX	
	COM4-A	A16				NOT SUPPORTED	I/O		COM 4 RS485 A / RS232 TX	
	COM3-B	A17	COM 3			NOT SUPPORTED	I/O		COM 3 RS485 B / RS232 RX	
	COM3-A	A18				NOT SUPPORTED	I/O		COM 3 RS485 A / RS232 TX	

Signal	Pin	Group	Connector	Function	I/O	Current	Description	Notes
COM1-B	A19	COM 1		NOT SUPPORTED	I/O		COM 1 RS485 B / RS232 RX	
COM1-A	A20	COM 1		NOT SUPPORTED	I/O		COM 1 RS485 A / RS232 TX	
USS-TRIG-1	1	INPUTS		INPUT_DIGITAL_PIN_USS_TRIG_1	I		DIGITAL INPUT	
USS-GND-1	2				P		GROUND	
USS-TRIG-2	3			INPUT_DIGITAL_PIN_USS_TRIG_2	I		DIGITAL INPUT	
USS-GND-2	4				P		GROUND	
USS-TRIG-3	5			INPUT_DIGITAL_PIN_USS_TRIG_3	I		DIGITAL INPUT	
USS-GND-3	6				P		GROUND	
USS-TRIG-4	7			INPUT_DIGITAL_PIN_USS_TRIG_4	I		DIGITAL INPUT	
USS-GND-4	8				P		GROUND	
USS-TRIG-5	9			INPUT_DIGITAL_PIN_USS_TRIG_5	I		DIGITAL INPUT	
USS-GND-5	10				P		GROUND	
USS-TRIG-6	11			INPUT_DIGITAL_PIN_USS_TRIG_6	I		DIGITAL INPUT	
USS-GND-6	12				P		GROUND	
USS-TRIG-7	13			INPUT_DIGITAL_PIN_USS_TRIG_7	I		DIGITAL INPUT	
USS-GND-7	14				P		GROUND	
USS-TRIG-8	15			INPUT_DIGITAL_PIN_USS_TRIG_8	I		DIGITAL INPUT	
USS-GND-8	16				P		GROUND	
DIN1	17	DIGITAL INS 1	X901 62400113722	INPUT_DIGITAL_PIN_DIN1	I		DIGITAL INPUT 1	Open - LOW state, Connected to DIN_REF - HIGH state
DIN2	18			INPUT_DIGITAL_PIN_DIN2	I		DIGITAL INPUT 2	Open - LOW state, Connected to DIN_REF - HIGH state
DIN3	19			INPUT_DIGITAL_PIN_DIN3	I		DIGITAL INPUT 3	Open - LOW state, Connected to DIN_REF - HIGH state
DIN4	20			INPUT_DIGITAL_PIN_DIN4	I		DIGITAL INPUT 4	Open - LOW state, Connected to DIN_REF - HIGH state
USS-INT-1	21	INPUTS		INPUT_DIGITAL_PIN_USS_INT_1	I		DIGITAL INPUT	
USS-VCC-1	22				P	200mA	POWER	Power selection options VBB-USS: PB-5V, PB-12V,PB-UPS.
USS-INT-2	23			INPUT_DIGITAL_PIN_USS_INT_2	I		DIGITAL INPUT	
USS-VCC-2	24				P	200mA	POWER	Power selection options VBB-USS: PB-5V, PB-12V,PB-UPS.
USS-INT-3	25			INPUT_DIGITAL_PIN_USS_INT_3	I		DIGITAL INPUT	
USS-VCC-3	26				P	200mA	POWER	Power selection options VBB-USS: PB-5V, PB-12V,PB-UPS.
USS-INT-4	27			INPUT_DIGITAL_PIN_USS_INT_4	I		DIGITAL INPUT	
USS-VCC-4	28				P	200mA	POWER	Power selection options VBB-USS: PB-5V, PB-12V,PB-UPS.
USS-INT-5	29			INPUT_DIGITAL_PIN_USS_INT_5	I		DIGITAL INPUT	
USS-VCC-5	30				P	200mA	POWER	Power selection options VBB-USS: PB-5V, PB-12V,PB-UPS.
USS-INT-6	31			INPUT_DIGITAL_PIN_USS_INT_6	I		DIGITAL INPUT	
USS-VCC-6	32				P	200mA	POWER	Power selection options VBB-USS: PB-5V, PB-12V,PB-UPS.
USS-INT-7	33			INPUT_DIGITAL_PIN_USS_INT_7	I		DIGITAL INPUT	
USS-VCC-7	34				P	200mA	POWER	Power selection options VBB-USS: PB-5V, PB-12V,PB-UPS.
USS-INT-8	35			INPUT_DIGITAL_PIN_USS_INT_8	I		DIGITAL INPUT	
USS-VCC-8	36				P	200mA	POWER	Power selection options VBB-USS: PB-5V, PB-12V,PB-UPS.
DIN-REF-1	37	DIGITAL INS			P	-	DIGITAL INPUT 1 REFERENCE VOLTAGE	Power selection options VBB-DIN: PB-12V,PB-UPS.
DIN-REF-2	38				P	-	DIGITAL INPUT 2 REFERENCE VOLTAGE	Power selection options VBB-DIN: PB-12V,PB-UPS.
DIN-REF-3	39				P	-	DIGITAL INPUT 3 REFERENCE VOLTAGE	Power selection options VBB-DIN: PB-12V,PB-UPS.
DIN-REF-4	40				P	-	DIGITAL INPUT 4 REFERENCE VOLTAGE	Power selection options VBB-DIN: PB-12V,PB-UPS.
DIN5	1			INPUT_DIGITAL_PIN_DIN5	I		DIGITAL INPUT 5	Open - LOW state, Connected to DIN_REF - HIGH state

Row group label: DIGITAL INPUTS

AIN10	6					I		ANALOG INPUT 10	Range: 0 - AIN-VCC*
AIN-GND-10	7					P		ANALOG INPUT 10 GROUND	
AIN11	8					I		ANALOG INPUT 11	Range: 0 - AIN-VCC*
AIN12	9	ANALOG INS 2				I		ANALOG INPUT 12	Range: 0 - AIN-VCC*
AIN-GND-12	10					P		ANALOG INPUT 12 GROUND	
AIN13	11					I		ANALOG INPUT 13	Range: 0 - AIN-VCC*
AIN14	12					I		ANALOG INPUT 14	Range: 0 - AIN-VCC*
AIN-GND-14	13					P		ANALOG INPUT 14 GROUND	
AIN15	14			NOT SUPPORTED		I		ANALOG INPUT 15	Range: 0 - AIN-VCC*
AIN16	15			NOT SUPPORTED		I		ANALOG INPUT 16	Range: 0 - AIN-VCC*
AIN-GND-16	16					P		ANALOG INPUT 16 GROUND	
LC2EXC-	17			NOT SUPPORTED		O		LOAD CELL 2 NEGATIVE EXCITER OUTPUT	
LC2EXC+	18	LOAD CELLS		NOT SUPPORTED		O		LOAD CELL 2 POSITIVE EXCITER OUTPUT	
LC1EXC-	19			NOT SUPPORTED		O		LOAD CELL 1 NEGATIVE EXCITER OUTPUT	
LC1EXC+	20			NOT SUPPORTED		O		LOAD CELL 1 POSITIVE EXCITER OUTPUT	
AIN-VCC-6	21					P	100mA**	ANALOG INPUT 6 POWER / REFERENCE V	Power selection options VBB-A1-8: PB-5V, PB-12V,PB-UPS.
AIN-GND-7	22	ANALOG INS 1				P		ANALOG INPUT 7 GROUND	
AIN-VCC-7	23					P	100mA**	ANALOG INPUT 7 POWER / REFERENCE V	Power selection options VBB-A1-8: PB-5V, PB-12V,PB-UPS.
AIN-VCC-8	24					P	100mA**	ANALOG INPUT 8 POWER / REFERENCE V	Power selection options VBB-A1-8: PB-5V, PB-12V,PB-UPS.
AIN-GND-9	25					P		ANALOG INPUT 9 GROUND	
AIN-VCC-9	26					P	100mA**	ANALOG INPUT 9 POWER / REFERENCE V	Power selection options VBB-A9-16: PB-5V, PB-12V,PB-UPS.
AIN-VCC-10	27					P	100mA**	ANALOG INPUT 10 POWER / REFERENCE	Power selection options VBB-A9-16: PB-5V, PB-12V,PB-UPS.
AIN-GND-11	28					P		ANALOG INPUT 11 GROUND	
AIN-VCC-11	29					P	100mA**	ANALOG INPUT 11 POWER / REFERENCE	Power selection options VBB-A9-16: PB-5V, PB-12V,PB-UPS.
AIN-VCC-12	30					P	100mA**	ANALOG INPUT 12 POWER / REFERENCE	Power selection options VBB-A9-16: PB-5V, PB-12V,PB-UPS.
AIN-GND-13	31	ANALOG INS 2				P		ANALOG INPUT 13 GROUND	
AIN-VCC-13	32					P	100mA**	ANALOG INPUT 13 POWER / REFERENCE	Power selection options VBB-A9-16: PB-5V, PB-12V,PB-UPS.
AIN-VCC-14	33					P	100mA**	ANALOG INPUT 14 POWER / REFERENCE	Power selection options VBB-A9-16: PB-5V, PB-12V,PB-UPS.
AIN-GND-15	34					P		ANALOG INPUT 15 GROUND	
AIN-VCC-15	35					P	100mA**	ANALOG INPUT 15 POWER / REFERENCE	Power selection options VBB-A9-16: PB-5V, PB-12V,PB-UPS.
AIN-VCC-16	36					P	100mA**	ANALOG INPUT 16 POWER / REFERENCE	Power selection options VBB-A9-16: PB-5V, PB-12V,PB-UPS.
LC2SG-	37			NOT SUPPORTED		I		LOAD CELL 2 NEGATIVE SIGNAL INPUT	
LC2SG+	38	LOAD CELLS		NOT SUPPORTED		I		LOAD CELL 2 POSITIVE SIGNAL INPUT	
LC1SG-	39			NOT SUPPORTED		I		LOAD CELL 1 NEGATIVE SIGNAL INPUT	
LC1SG+	40			NOT SUPPORTED		I		LOAD CELL 1 POSITIVE SIGNAL INPUT	

(Left margin label: ANALOG INPUTS / LOAD CELLS)

(Vertical label: X903)

(Vertical label: 62400113722)

*	AIN-VCC-X default set to 5V
**	up to 200mA
***	peak up to 3.6A