

Design File:	7EBRX66T_0_Rev-0_PM170619
Design Title:	
Selected Variant:	7EBRX66T
Variant Description:	CONTROLLO 3 MOTORI
Date:	17.06.2019
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BILL OF MATERIAL				
Quantity	Part Name	Part Number	Description	Component Names
1	JACK DC10A	2CJ00010	CONN. JACK 5A 2,1mm DC-10A 5A 12VDC (F-224959)	J6
1	JST B3B-XH-A	2CJMXHP3	CONN.M 3V JST B3B-XH-A	J7
1	JST B4B-XH-A	2CJMXHP4	CONN.M 4V JST B4B-XH-A	J14
1	JST B5B-XH-A	2CJMXHP5	CONN.M 5V JST B5B-XH-A	J15
1	SAURO 2M/P 5.0.	2CSIMP02	C.SAURO CIM/OP-02 M.POL.02 p.5.0	J4
3	SAURO 3M/P 5.0.	2CSIMP03	C.SAURO CIM/OP-03 M.POL.03 p.5.0	J1, J2, J13
3	FLAT 34M DIN41651	2CT3441M	CONN. DIN41651 34vie M (Distr.143-65-398)	J3, J5, J8
2	SAMTEC 6-6F 90°	2CV00120	SSW-106-02-G-D-RA 2.54mm 12cont 90° Presa Serie SSW	J10, J11
4	BERG 2p	2CV00139	STRIP 2P.M.VERT. STP MDR 3.0+2.5+6 1X02	PN1, PN15, PN19, PN42
1	BERGER 2M	2CV00139	STRIP 2P.M.VERT. STP MDR 3.0+2.5+6 1X02	J16
1	BERGER 3M	2CV00145	STRIP 40P.M.VERT.WS1X40	J17
6	BERG 3p	2CV00145	CONN. BERGHER 40P.M.VERT.WS1X40/90	PN8, PN37, PN38, PN39, PN40, PN41
3	BERGER 4-4M.	2CV00190	STRIP MAS. DR. 2X40 ZTD80S DOPPIA FILA	J21, J22, J23
3	BERGER 6-6M.	2CV00190	STRIP MAS. DR. 2X40 ZTD80S DOPPIA FILA	J18, J19, J20
1	BERGER 6-6M	2CV00190	STRIP MAS. DR. 2X40 ZTD80S DOPPIA FILA	J24
1	BERGER 7-7M	2CV00197	STRIP MAS. DR. 2X7 ZTD80S DOPPIA FILA	J9
1	USB MICRO B 90°	4AAC0160	MICRO USB JST UB-MC5BR3-SD204-4S-1-TB NMP tipo B femmina 90° SMT	J12
4	PULS_KSEM31G LFS	4AAP0040	KSEM31G LFS - Interruttore Tattile, Non Illuminato, 32 V, 50 mA, 1.5 N, SMD	P1, P2, P3, P4
1	IND. 10µH 0.25A	4AB01025	IND.10µH 0.25A CM453232-100 BOUR 1.6ohm	L2
1	IND. 744066100	4AB66100	10µH 30% 3.6A Idc Wurth WE-TPC Series	L4
1	IND. 744066330	4AB66330	33µH 30% 2.1A Idc Wurth WE-TPC Series	L1
8	47pF	4AC04765	COND. SMD 50V 0603 X7R "47pF"	C104, C108, C115, C116, C137, C138, C155, C156
8	100pF	4AC11065	COND. SMD 50V 0603 X7R WLS0603N101J500LT "100pF"	C25, C30, C73, C80, C83, C95, C179, C191
56	1nF	4AC21065	COND. SMD 50V 0603 X7R PHY223858615623 "1nF"	C24, C28, C29, C42, C43, C44, C46, C47, C48, C50, C51, C52, C54, C55, C56, C58, C59, C60, C62, C63, C64, C66, C67, C71, C74, C76, C98, C103, C107, C110, C111, C112, C118, C119, C120, C121, C124, C125, C126, C127, C128, C129, C131, C132, C133, C140, C141, C142, C148, C161, C162, C172, C173, C180, C181, C192
1	4n7F	4AC24765	COND. SMD 50V 0603 X7R "4n7F"	C153
9	10nF	4AC31065	COND. SMD 50V 0603 X7R WLS0603B103K500CT "10nF"	C85, C96, C99, C106, C139, C163, C164, C169, C206
59	100nF	4AC41065	COND. SMD 50V 0603 X7R PHY223858619812 "100nF"	C4, C5, C6, C7, C8, C9, C11, C13, C15, C17, C19, C21, C70, C75, C77, C78, C79, C81, C82, C86, C87, C89, C90, C94, C100, C102, C113, C114, C122, C123, C130, C143, C146, C149, C150, C154, C168, C170, C171, C175, C177, C182, C183, C184, C186, C188, C190, C193, C194, C195, C196, C197, C198, C200, C201, C202, C203, C204, C207
12	1µF. 50V	4AC51015	COND. SMD 1µF 50V Y5V 1206 CL31F105ZBFNNE	C1, C2, C22, C26, C40, C68, C69, C72, C91, C101, C159, C174
24	10µF. 25V	4AC610A2	COND. SMD 10µF 25V X7R (Package 1206)	C31, C32, C33, C34, C35, C36, C38, C45, C49, C53, C57, C61, C65, C134, C135, C136, C145, C151, C160, C165, C166, C167, C176, C178
1	10µF. 50V	4AC610A5	C.SMD 10µF 50V X5R 1206	C93
10	47µF 50V.	4AC647E5	COND. SMD ELETTR. 47µF 50V UUX-CR 6.3x8	C10, C12, C14, C16, C18, C20, C41, C185, C187, C189
2	100µF 35V.	4AC710E3	COND. SMD ELETTR. 100µF 35V UUX-CR 6.3x8	C39, C92

1	100µF 63V.	4AC710E6	COND. SMD ELETTR. 100µF 63V 105°C 10x10.5 UUX1J101MNL1G5 Nichicon	C3
1	470µF 25V.	4AC747E2	COND. SMD ELETTR. 470µF 25V 10x10.5 NIC NACE	C27
2	ES1D	4ADI0121	D. SMD SMA_DO-214AC ES1D 1A 200V Trr 35ns	D46, D57
3	10BQ060	4ADV0106	Schottky, 60 V, 1 A, Singolo, DO-214AA, 2 Pin, 490 mV	D9, D41, D47
34	BAT54S	4ADV0200	D.SMD BAT54S 200mA 30V SCHOTTKY SOT-23	D1, D2, D3, D4, D5, D6, D7, D8, D10, D11, D12, D13, D17, D27, D34, D35, D36, D37, D38, D39, D40, D42, D43, D44, D45, D48, D52, D53, D54, D55, D56, D58, D59, D60
12	BAT46W	4ADV0205	D.BAT46W 150mA 100V SCHOTTKY SOD-123	D14, D15, D16, D18, D19, D20, D28, D29, D30, D31, D32, D33
1	AT24C02C-SSHM	4AI02504	C.I.SMD AT24C02C-SSHM E2PROM SO8	U15
1	ISO7221	4AI07221	ISO7221 Dual Channel Digital Isolators	U16
1	ISL8560	4AI08560	DC/DC Power Switching Regulator	U1
1	AMIS42673	4AI42673	C.I. SMD AMIS42673ICAG1RG 8-SO CAN-BUS	U12
1	LM317MDTX	4AI76530	C.I. FSCLM317MDTX 0,5A SMD D-PAK	U8
1	L78M05ABDT-TR	4AI7805D	L78M05ABDT-TR IC,REG.TENSIONE +5.0V,0.5A,-40°C,DPAK,7805	U22
1	ISL97519A	4AI97519	ISL97519A PWM Step-Up Regulator	U23
1	FT232R	4AIFT233	FT232R USB UART IC	U25
2	MC33072DR2G	4AILM072	CI MC33072DR2G SOIC-8 13V/us(F2531403)	U14, U21
3	LM393D	4AILM393	C.I.SMD LM393M SO8 DUAL VOLTAGE COMPARATORS	U10, U11, U13
1	MAX809SN-2.93	4AILM802	C.I. SMD MAX809SN293D1T1G 2.93V BASSO RITARDO DI RESET	U24
1	R5F566TXXXX	4AIRxxx667	MICRO SMD R5F566Txxxx RENESAS	U17
9	HIP2103	4AIxxxHIP2103	HIP2103 60V, 1A/2A Peak, Half Bridge Driver with 4V UVLO	U2, U3, U4, U5, U6, U7, U18, U19, U20
1	L.G.1206	4ALG1200	LED SMD GIALLO 1206 HSMC-C150	DL2
1	L.R.1206	4ALR1200	LED SMD ROSSO 1206	DL3
3	L.V.1206	4ALV1200	LED.SMD VE 1206 HSMG-C150 15mcd GREEN	DL1, DL4, DL5
20	RJK0654DPB	4AM03060	MOS. RJK0654DPB LFPK 60V 30A Rds=6.5m	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q20, Q21, Q22, Q23, Q24, Q25
2	0R	4AR00006	RESIST.SMD 0603 "0R 1%"	R243, R323
9	0R1 1W 2512	4AR00125	RESIST.SMD 2512 "0R1" 1% 200V 100PPM/°C	R63, R65, R67, R69, R71, R73, R225, R226, R227
2	10R	4AR01006	RESIST.SMD 0603 "10R 1%"	R122, R138
18	47R	4AR04706	RESIST.SMD 0603 "47R 1%"	R20, R22, R24, R27, R29, R31, R43, R44, R45, R46, R47, R48, R244, R245, R246, R253, R255, R257
1	68R 1W 2512	4AR06825	RESIST.SMD 2512 "68R" 1% 200V 200PPM/°C	R162
65	100R	4AR11006	RESIST.SMD 0603 "100R 1%"	R2, R4, R5, R6, R8, R10, R12, R18, R36, R54, R103, R104, R107, R108, R109, R110, R111, R112, R114, R115, R116, R117, R135, R161, R165, R174, R176, R177, R179, R181, R183, R185, R187, R198, R208, R219, R224, R233, R275, R279, R280, R282, R283, R284, R285, R286, R287, R288, R289, R290, R291, R292, R293, R294, R295, R296, R297, R298, R308, R314, R327, R329, R330, R331, R332
1	120R 0805	4AR11208	RESIST.SMD 0805 "120R 1%"	R130
6	220R	4AR12006	RESIST.SMD 0603 "220R 1%"	R142, R143, R150, R172, R193, R194
27	1K	4AR21006	RESIST.SMD 0603 "1K 1%"	R136, R144, R146, R151, R152, R163, R170, R199, R200, R201, R202, R203, R204, R206, R212, R214, R217, R222, R230, R238, R240, R248, R299, R300, R307, R317, R333
6	1K2	4AR21206	RESIST.SMD 0603 "1K2 1%"	R140, R141, R149, R173, R195, R196
26	2K2	4AR22206	RESIST.SMD 0603 "2K2 1%"	R52, R53, R61, R62, R75, R85, R100, R118, R119, R123, R124, R125, R127, R131, R132, R156, R157, R189, R190, R301, R320, R321, R322, R324, R325, R326
16	4K7	4AR24706	RESIST.SMD 0603 "4K7 1%"	R83, R84, R99, R129, R137, R153, R154, R164, R251, R309, R310, R311, R312, R313, R315, R316
8	5K6	4AR25606	RESIST.SMD 0603 "5K6 1%"	R38, R40, R64, R66, R68, R70, R72, R74

75	10K	4AR31006	RESIST.SMD 0603 "10K 1%"	R1, R19, R21, R23, R25, R26, R28, R30, R37, R42, R55, R56, R57, R58, R59, R60, R76, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R101, R102, R120, R126, R128, R133, R145, R147, R155, R159, R167, R169, R171, R178, R180, R182, R184, R186, R188, R191, R192, R205, R213, R215, R216, R228, R229, R232, R234, R235, R236, R237, R239, R241, R247, R249, R250, R252, R254, R256, R258, R303, R304, R305, R318
26	22K	4AR32206	RESIST.SMD 0603 "22K 1%"	R15, R16, R32, R49, R50, R139, R166, R175, R220, R221, R259, R260, R261, R262, R263, R264, R265, R267, R268, R269, R270, R271, R272, R274, R276, R328
1	56K	4AR35606	RESIST.SMD 0603 "56K 1%"	R51
5	100K	4AR41006	RESIST.SMD 0603 "100K 1%"	R14, R134, R160, R218, R242
2	330K	4AR43306	RESIST.SMD 0603 "330K 1%"	R33, R34
2	1M	4AR51006	RESIST.SMD 0603 "1M 1%"	R105, R121
1	PTC_MINISMDC075F-24	4ARPTC07	PTC LITTELFUSE MINISMDC075F/24-2 (1812)	PTC1
1	BC807	4ATBC807	TRANS. SMD BC807 SOT-23 PHABC807	Q18
4	BC817	4ATBC817	TRANS. SMD BC817 SOT-23 PHABC817	Q15, Q16, Q17, Q19
1	BZX84C15	4AZ01500	D. ZENER 15V 350mW SOT-23	DZ1
1	TL431CDBZR	4AZP0432	PROGRAMMABLE VOLTAGE REFERENCE TL431CDBZR SOT-23-3	U9
2	SM6T6V8A	4AZT0606	TRANSIL STH SM6T6V8A Unidirect. SMD bobina	DZ2, DZ3
1	P_FUS_5x20	5PF52010	PORTAF. C.S. 5x20 OMEGA C1024	FUS1