


Document reference:		Product reference:				
Vers. 1.0		EVLSTDRIVE631P/N				
www.st.com						
STMicroelectronics						
All resistors are 1% tolerance unless otherwise indicated						
All capacitors are X7R or COG dielectric unless otherwise indicated						
Index	Quantity	Reference	Manufacturer	Description	Value / Generic PN	Package
1	14	C1, C4, C7, C9, C12, C13, C36, C37, C38, C51, R63, R82, R83, R84			N.M.	Size 0603
2	2	C2, C3			220nF/25V	Size 0603
3	3	C5, C6, C8			470nF/50V	Size 0805
4	2	C10, C32			47nF/25V	Size 0603
5	1	C11			1nF/25V	Size 0603
6	11	C14, C17, C18, C19, C20, C22, C24, C25, C27, C29, C35			33pF/25V	Size 0603
7	1	C15	KEMET	R71MF31004030K or Equivalent	N.M.	Dim. 4x13, pitch 10 mm
8	1	C16	wurth Elektronik	wurth 885342209004	33nF/630V	Size 1210
9	1	C21A			N.M.	Size 1206
10	1	C21	Wurth Elektronik	wurth 865250442003 or equivalent	10uF/25V	Size C
11	1	C23	Wurth Elektronik	Wurth 865230440002 or equivalent	10uF	Diam. 4 mm - 4x6 mm
12	1	C23A			N.M.	Size 0805
13	3	C26, C28, C30			2.2pF/25V	Size 0603
14	6	C31, C33, C42, C47, C49, C50			100nF/25V	Size 0603
15	1	C34	Chemi-con	EKXN451ELL820MM20S or equivalent	82uF/450V	Diam. 18 mm, pitch 7.5 mm
16	3	C39, C40, C41			10pF/25V	Size 0603
17	3	C44, C45, C46			4.7pF/50V	Size 0603
18	1	C48			4.7uF/10V	Size 0805
19	16	D1, D5, D6, D7, D8, D9, D11, D15, D16, D17, D18, D19, D20, D21, D22, D23	STMicroelectronics	BAT54JFILM or equivalent	BAT54J	SOD-323
20	3	D2, D3, D4	STMicroelectronics	STTH1L06A	N.M.	SMA
21	1	D10			BZT52C3V3	SOD-123
22	3	D24, D25, D26	ROHM Semiconductor	RFU02VSM8S or equivalent	RFU02VSM8S	TUMD25M
23	2	JP1, JP17			CLOSED	Soldering pad
24	2	JP2, JP3			OPEN	Size 0805
25	1	JP4			OPEN	Soldering pad
26	3	JP10, JP11, JP12			N.M.	
27	3	JP18, JP19, JP20			CLOSED 1-2	Soldering pad
28	1	JP21			CLOSED 2-4	Soldering pads
29	1	J1	Phoenix Contact	1715721 or equivalent	MORSV-508-2P_screw	Pitch 5.08 mm
30	1	J2	Phoenix Contact	1715857 or equivalent	MORSV-508-3P_screw	Pitch 5.08 mm
31	1	J3	Wurth Elektronik	691214110003 or equivalent	MORSV-350-3P_screw	Pitch 3.5 mm
32	1	J4	TE Connectivity	3-1761603-1 or equivalent	MOTOR CONN.	2x17 pins
33	1	J5	Amphenol FCI	68000-413HLF or equivalent	STRIP 1x13	1x13 pins
34	1	J6	Amphenol FCI	68000-405HLF or equivalent	STRIP 1x5	1x5 pins
35	6	Q1, Q2, Q3, Q4, Q5, Q6	STMicroelectronics	STGD6M65DF2	STGD6M65DF2	DPAK
36	6	Q1A, Q2A, Q3A, Q4A, Q5A, Q6A	STMicroelectronics	STL33N60DM2	N.M.	PowerFLAT 8x8
37	6	R1, R7, R11, R15, R19, R25			10R	Size 0805
38	3	R2, R5, R8			27R	Size 0805
39	6	R3, R9, R12, R16, R21, R26			100R	Size 0805
40	6	R4, R10, R13, R17, R23, R27			100k	Size 0603
41	6	R6, R62, R85, R112, R113, R117			0R	Size 0603
42	2	R14, R39			47k	Size 0603
43	8	R18, R42, R47, R52, R61, R78, R79, R80			10k	Size 0603
44	13	R20, R22, R24, R31, R32, R33, R34, R35, R37, R40, R72, R73, R74			1k	Size 0603
45	3	R30, R57, R58			220m/ 2W/ 1%	Size 1210/2512
46	1	R36			1k8	Size 1206
47	1	R38			27k	Size 0603
48	9	R41, R44, R46, R49, R51, R54, R75, R76, R77			1k8	Size 0603
49	6	R45, R50, R55, R68, R69, R70			20k	Size 0603
50	2	R59, R71			3R3	Size 0603
51	1	R60			4k7	Size 0603
52	2	R64, R65			470k	Size 1206
53	1	R66			6.49k	Size 0805
54	4	R67, R87, R93, R97			1k	Size 0805
55	6	R86, R88, R92, R94, R96, R98			180k	Size 1206
56	3	R91, R95, R99			3.3k	Size 0603
57	1	R114			33k	Size 0603
58	1	R115			10M	Size 0603
59	29	TP1, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP31, TP32			N.M.	Diam. 1.27, Hole 0.8mm
60	1	TP29	Vero Technologies	20-313137 or equivalent	TP-ANELLO_1mm-ROSSO	Diam. 2.54 , Hole 1mm
61	1	TP30	Vero Technologies	20-2137 or equivalent	TP-ANELLO_1mm-NERO	Diam. 2.54 , Hole 1mm
62	1	U1	STMicroelectronics	STDRIVE631P/N/TR	STDRIVE631P/N	SO-28

63	2	U2, U3	STMicroelectronics	TSV912IQ2T	TSV912IQ2T	DFN8 2x2
64	1	U4	STMicroelectronics	TS3021ILT	TS3021ILT	SOT23-5