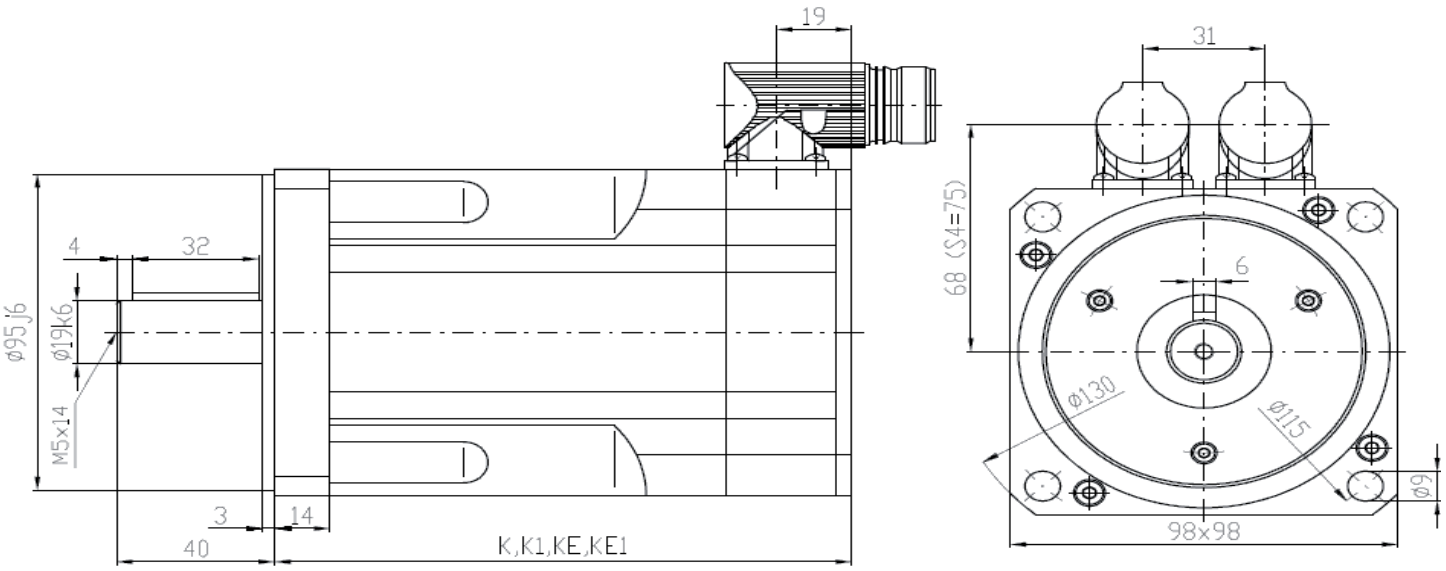
SERVOMOTORS SMXT4
2.6-9.5 Nm

SWISS MEKATRONIX AG

TECHNICAL DATA

		VDC	560				
Magnets Nd-Fe-B			SMXT4-260	SMXT4-390	SMXT4-530	SMXT4-750	SMXT4-950
Stall torque	M_0	Nm	2,6	3,9	5,3	7,5	9,5
Stall current	I_0	A	1,92	2,9	4,1	4,8	6,6
Nominal torque	M_N	Nm	2,3	3,3	4,6	6,4	8,5
Nominal speed	n_N	$min.^{-1}$	3000	3000	3000	3000	3000
Nominal power	P_N	W	723	1037	1446	2011	2671
Nominal current	I_N	A	1,85	2,6	3,8	4,4	6,2
Maximum torque	M_{max}	Nm	10,4	15,6	21	30	38
Maximum current	I_{max}	A	11,5	17,3	25	29	40
Max. speed mech.	n_{max}	$min.^{-1}$	12000	12000	12000	12000	12000
Torque constant	K_M	Nm/A	1,36	1,36	1,29	1,55	1,44
Voltage constant	K_E	V/1000 $min.^{-1}$	82	82	82	94	87
Resistance 2 ph.	R_{2Ph}	Ω	9,6	6,3	4,2	3	1,65
Inductance 2 ph.	L_{2Ph}	mH	41,5	33,1	24	19,2	11
Inertia	J	$kgcm^2$	1,9	2,3	2,7	4,2	6,1
Mass without brake	m	kg	4,5	5,1	5,6	7,7	10,5
Mass with brake	m_{Br}	kg	5,4	6	6,5	8,7	11,4
Brake torque	M_{Br}	Nm	9	9	9	9	9

DIMENSIONS



Type	K (resolver)	K1 (resolver+brake)	KE (EnDat)	KE1(EnDat+brake)
SMXT4-260	148 mm	180 mm	183 mm	215 mm
SMXT4-390	163 mm	195 mm	198 mm	230 mm
SMXT4-530	178 mm	210 mm	213 mm	245 mm
SMXT4-750	223 mm	255 mm	258 mm	290 mm
SMXT4-950	276 mm	308 mm	313 mm	345 mm

On request we can send you the technical parameters of the motors designed for different DC-Voltages or speed/torque characteristics. Other adaptions and modifications are possible.