TETRA COMPACT-X 60 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	-40 to +80 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	5 to 85% (non-condensing)
ENCLOSURE	Totally enclosed. Self-cooled	POLES	8
PROTECTION CLASS	IP 65 standard on the body	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL	cURus , DV155J File nr.:E216686	CE certified	

			TC-X 60 0,65 21			TC-X 60 1,3 21		
			Ambient temperature			Ambient temperature		
			-40°C	0 ÷ +40°C	+80°C	-40°C	0 ÷ +40°C	+80°C
Continuous stall torque	M_0	Nm	0,80	0,69	0,55	1,52	1,31	0,95
Peak torque	M_{max}	Nm	1,95	1,95	1,95	3,9	3,9	3,9
Nominal torque	M_n	Nm	0,75	0,64	0,50	1,39	1,18	0,82
Rated voltage	Un	V	230	230	230	230	230	230
Nominal power	P_N	W	235	200	157	435	370	260
Continuous stall current	I_0	A_{rms}	1,52	1,31	0,90	2,94	2,49	1,52
Maximum current	Imax	A_{rms}	3,71	3,71	3,71	7,41	7,41	7,41
Nominal current	I_N	A_{rms}	1,45	1,25	0,86	2,73	2,31	1,41
Nominal working speed	nN	min^{-1}	3000	3000	3000	3000	3000	3000
Maximum working speed 230VAC	nmax	min^{-1}	5000	5000	5000	5000	5000	5000
Maximum working speed 400VAC	nmax	min^{-1}	-	-	-	-	-	-
Torque constant	k_t	Nm/A_{rms}	0,526	0,526	0,526	0,526	0,526	0,526
Voltage constant	K_{eu-v}	Vrms/Krpm	31,8	31,8	31,8	31,8	31,8	31,8
Winding resistance	R_{20u-v}	Ohm	12,9	12,9	12,9	4,2	4,2	4,2
Winding inductance	L_{qu-v}	mH	26,5	26,5	26,5	14,9	14,9	14,9
Electrical time constant	Te	ms	2,05	2,05	2,05	3,55	3,55	3,55
Thermal resistance	°C/W	°C/W	1,89	1,89	1,89	1,41	1,41	1,41
Mechanical time constant	Tm	ms	0,91	0,91	0,91	0,55	0,55	0,55
Rotor inertia (a)	J_M	$Kgcm^2$	0,13	0,13	0,13	0,24	0,24	0,24
Mass	m	Kg	1,1	1,1	1,1	1,5	1,5	1,5
Maximum axial shaft load	N		70 (applied on the shaft's center)					
Maximum radial shaft load	N		220 (applied on the shaft's center)					

Rated output with 250 x 250 x 6 mm aluminum heat sink flange coupling - Derating must be considered if the oil seal is applied - IP 54 standard shaft bushing
(a) without feedback

TETRA COMPACT-X 60 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	-40 to +80 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	5 to 85% (non-condensing)
ENCLOSURE	Totally enclosed. Self-cooled	POLES	8
PROTECTION CLASS	IP 65 standard on the body	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL	cURus , DV155J File nr.:E216686	CE certified	

TC-X 60 1,3 15

			Ambient temperature		
			-40°C	0 ÷ +40°C	+80°C
Continuous stall torque	M_0	Nm	1,52	1,31	0,95
Peak torque	M_{max}	Nm	3,9	3,9	3,9
Nominal torque	M_n	Nm	1,39	1,18	0,82
Rated voltage	Un	V	400	400	400
Nominal power	P_N	W	435	370	260
Continuous stall current	I_0	A_{rms}	1,67	1,44	0,99
Maximum current	Imax	A_{rms}	4,29	4,29	4,29
Nominal current	I_N	A_{rms}	1,54	1,33	0,92
Nominal working speed	nN	min^{-1}	3000	3000	3000
Maximum working speed 230VAC	nmax	min^{-1}	3900	3900	3900
Maximum working speed 400VAC	nmax	min^{-1}	5000	5000	5000
Torque constant	k_t	Nm/A_{rms}	0,910	0,910	0,910
Voltage constant	K_{eu-v}	Vrms/Krpm	55,0	55,0	55,0
Winding resistance	R_{20u-v}	Ohm	14,4	14,4	14,4
Winding inductance	L_{qu-v}	mH	41,8	41,8	41,8
Electrical time constant	Te	ms	2,90	2,90	2,90
Thermal resistance	°C/W	°C/W	1,41	1,41	1,41
Mechanical time constant	Tm	ms	0,63	0,63	0,63
Rotor inertia (a)	J_M	$Kgcm^2$	0,24	0,24	0,24
Mass	m	Kg	1,5	1,5	1,5
Maximum axial shaft load	N		70 (applied on the shaft's center)		
Maximum radial shaft load	N		220 (applied on the shaft's center)		

Rated output with 250 x 250 x 6 mm aluminum heat sink flange coupling - Derating must be considered if the oil seal is applied - IP 54 standard shaft bushing
(a) without feedback