



EM Brno s. r. o.



Data sheet of the servomotor 5NK 115-9-12

Technical version: TZ 4169 1016

DC bus voltage:	U_{DC}	560 V
Rated line to line voltage:	U_{V-W}	310 V
Stall torque:	M_0	21,0 Nm
Stall current:	I_0	6,5 A
Max. torque:	M_{MAX}	42,0 Nm
Max. current:	I_{MAX}	12,0 A
Rated torque:	M_N	19,5 Nm
Rated current:	I_N	6,0 A
Rated speed:	n_N	1 250 min ⁻¹
Rated output power:	P_N	2 550 W
Voltage constant:	K_E	200 V/1000 min ⁻¹
Torque constant:	k_T	3,4 Nm/A
Phase to phase resistance:	R_{2f}	3,6 Ohm
Phase to phase inductance:	L_{2f}	17 mH
Electric time constant:	T_{el}	4,7 ms
Mechanical time constant:	T_m	1,3 ms
Moment of inertia:	J	19,8 kgcm ²
Idle speed:	n_0	2 400 min ⁻¹
Max. mechanical speed:	n_{mech}	3 000 min ⁻¹
Mass:	m	20,5 kg
Degree of protection:	IP code	IP54
Cooling:	IC code	IC 410 (without fan)
Type of construction:	IM code	IM 3041
Temperature sensor in winding:		1 x PTC 140°C
Ambient temperature:		0°C up to 40°C

Feedback sensor:	Incremental SICK STEGMANN SRS 50 / 2048
Power motor connector:	HYPERTAC LFYB 06 CMR SN000 – 6 pins
Power connector cable:	HYPERTAC LPRA 06 BFRDN 170
Signal motor connector:	HYPERTAC SFYB 17 GMR SN000 – 17 pins
Signal connector cable:	HYPERTAC SPNA 17 HFRON 169
Dimensional drawing:	P – 8748a (07 970 13008)

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