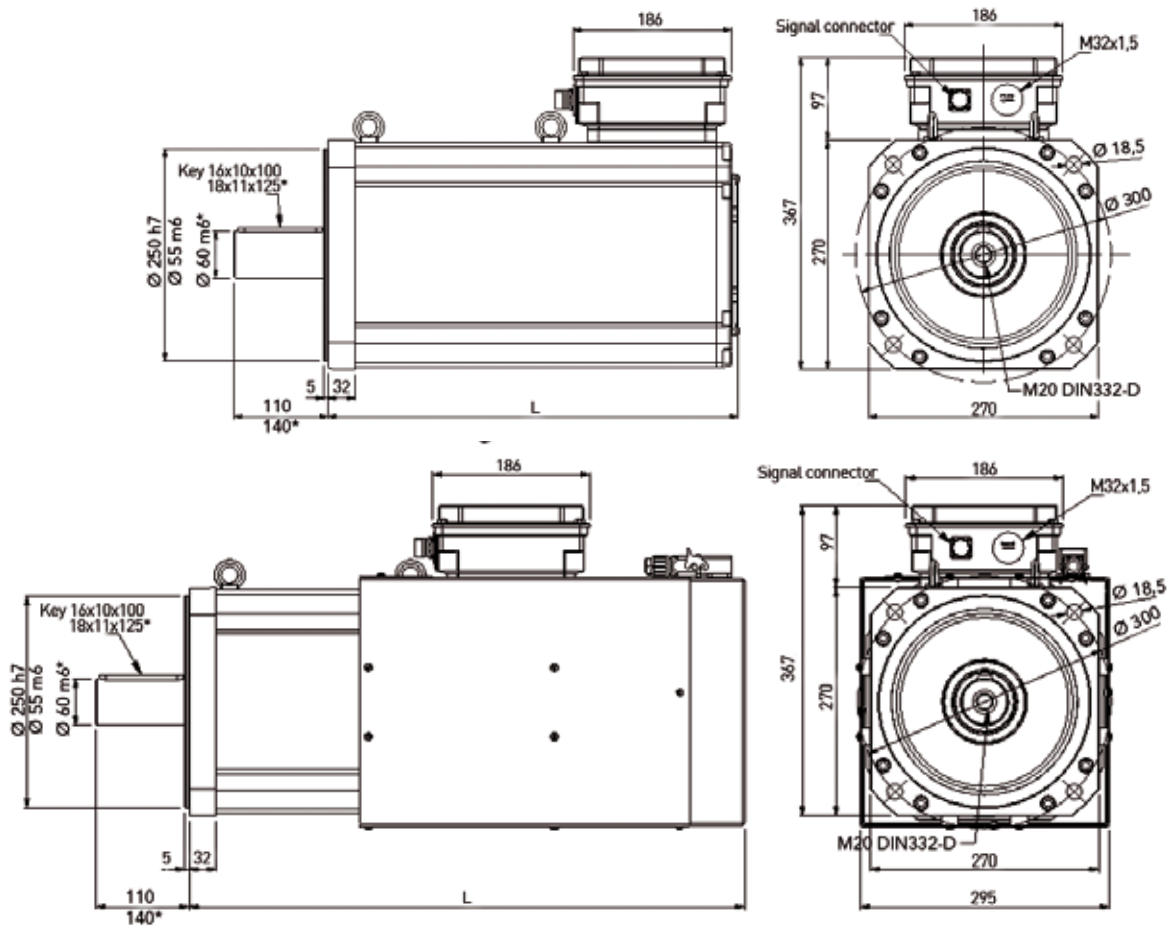
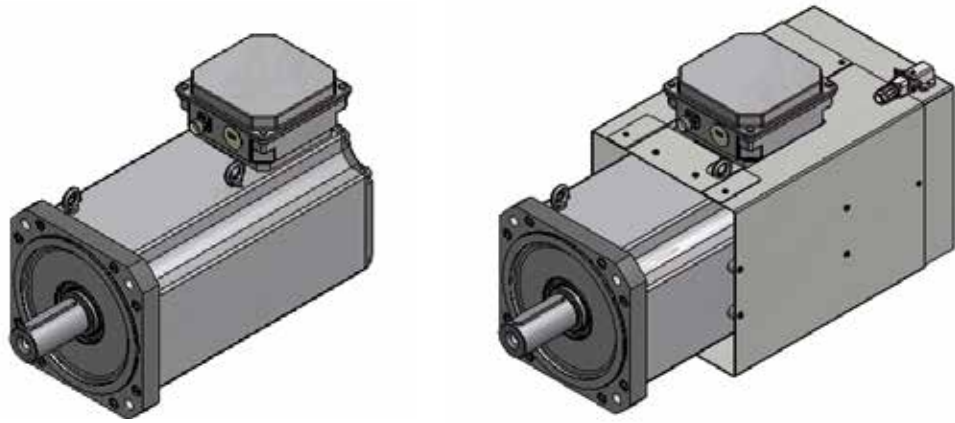


SERVO MOTORS

BRUSHLESS SERVO MOTORS
FOR HIGH POWER APPLICATIONS





*Only for type B16.300Q

MECHANICAL DATA

Type	Torque Nm	Lenght with RESOLVER (L)		Maximum lenght with ENCODER (L)		Weight Kg	
		Without Brake		Without Brake		Without Brake	
		SELF COOLED	AIR COOLED	SELF COOLED	AIR COOLED	SELF COOLED	AIR COOLED
B16.C4Q	140	422	597	450	597	119	128.5
B16.C8Q	180	482	657	510	657	140	149.5
B16.B4Q	240	572	747	600	747	173	184.5
B16.300Q	300	662	837	690	837	205	216.5

PERMISSIBLE RADIAL FORCES

Type	1500	2000
B16.C4Q	2.650	2.370
B16.C8Q	2.700	2.420
B16.B4Q	2.750	2.470
B16.300Q	2.200	1.980

Load applied at mid-shaft, referred to motors without parking brake and calculated for 20.000 operation hours. Axial loads have to be considered equal to 10% of the equivalent radial loads. Additional load due to fixing screw in front of the end shaft not included. In case to be highlighted in the motor order.



FOR HIGH POWER AND DYNAMIC APPLICATIONS

POWER EXTENDED UP TO 80 KW

STANDARD FEATURES

- Torque range 140 to 300 Nm and **over to 390 Nm** with forced ventilation
- Rated speed up to 2000 rpm
- Ideal for high dynamic and high acceleration applications
- Wide range of transducers: resolver, incremental and absolute encoders
- Forced ventilation (fan cooling) option available:
torque value higher of some 30% compared to air cooled motor version
- IP65 protection; TENV construction
- All motors available with brake as an option

OPTIONAL FEATURES

- cURus certification
- Special rotor balancing grade
- Special rotor inertia
- Customised flange and special shaft

TARGET APPLICATIONS

- Presses
- Plastic injection machines
- Extruders
- Pumps
- Printing
- Robots

Type	Stall torque ($\Delta t=105^{\circ}\text{C}$)	Rated speed	Rated power	Rated torque ($\Delta t=105^{\circ}\text{C}$)	Peak torque	Maximum speed	Moment of Inertia	Peak torque acceleration	Thermal time constant	Thermal protection threshold	Voltage constant	Torque constant	Resistance phase to phase	Inductance phase to phase	BEMF at rated speed	Stall current	Rated current
	M_o Nm	n 1/min	P_n kW	M_n Nm	M_{pk} Nm	n_{max} rpm	J 10^{-4}kgm^2	a_{pk} rad/sec ²	T_{th} min	ϑ_{max} $^{\circ}\text{C}$	K_o Vs	K_t Nm/A	R_w Ω	L_w mH	E_n Vrms	I_o Arms	I_n Arms
1500 min⁻¹ SELF COOLED																	
B16.C4Q	140	1500	22	110	475	3800	290	16379	63	140	1.88	3.26	0.155	4.3	296	43	34
B16.C8Q	180	1500	28	140	650	3800	373	17426	65	140	1.88	3.26	0.098	3.0	296	55	43
B16.B4Q	240	1500	38	183	900	3800	497	18109	67	140	1.88	3.26	0.065	2.2	296	74	56
B16.300Q	300	1500	47	229	1150	3800	622	18489	69	140	1.88	3.26	0.046	1.7	296	92	70
2000 min⁻¹ SELF COOLED																	
B16.C4Q	140	2000	29	86	475	3800	290	16379	63	140	1.41	2.44	0.089	2.5	296	57	35
B16.C8Q	180	2000	38	115	650	3800	373	17426	65	140	1.41	2.44	0.059	1.8	296	74	47
B16.B4Q	240	2000	50	148	900	3800	497	18109	67	140	1.41	2.44	0.038	1.3	296	98	61
B16.300Q	300	2000	63	191	1150	3800	622	18489	69	140	1.41	2.44	0.030	1.1	296	123	78

Type	Stall torque ($\Delta t=105^{\circ}\text{C}$)	Rated speed	Rated power	Rated torque ($\Delta t=105^{\circ}\text{C}$)	Peak torque	Maximum speed	Moment of Inertia	Peak torque acceleration	Thermal time constant	Thermal protection threshold	Voltage constant	Torque constant	Resistance phase to phase	Inductance phase to phase	BEMF at rated speed	Stall current	Rated current
	M_o Nm	n 1/min	P_n kW	M_n Nm	M_{pk} Nm	n_{max} rpm	J 10^{-4}kgm^2	a_{pk} rad/sec ²	T_{th} min	ϑ_{max} $^{\circ}\text{C}$	K_o Vs	K_t Nm/A	R_w Ω	L_w mH	E_n Vrms	I_o Arms	I_n Arms
1500 min⁻¹ AIR COOLED																	
B16.C4Q	180	1500	28	160	475	3800	290	16379	43	140	1.88	3.26	0.155	4.3	296	55	49
B16.C8Q	234	1500	37	208	650	3800	373	17426	44	140	1.88	3.26	0.098	3.0	296	72	64
B16.B4Q	312	1500	49	280	900	3800	497	18109	44	140	1.88	3.26	0.065	2.2	296	96	86
B16.300Q	390	1500	61	350	1150	3800	622	18489	45	140	1.88	3.26	0.046	1.7	296	120	107
2000 min⁻¹ AIR COOLED																	
B16.C4Q	180	2000	38	155	475	3800	290	16379	43	140	1.41	2.44	0.089	2.5	296	74	63
B16.C8Q	234	2000	49	200	650	3800	373	17426	44	140	1.41	2.44	0.059	1.8	296	96	82
B16.B4Q	312	2000	65	270	900	3800	497	18109	44	140	1.41	2.44	0.038	1.3	296	128	111
B16.300Q	390	2000	82	335	1150	3800	622	18489	45	140	1.41	2.44	0.030	1.1	296	160	137

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