

Motor data

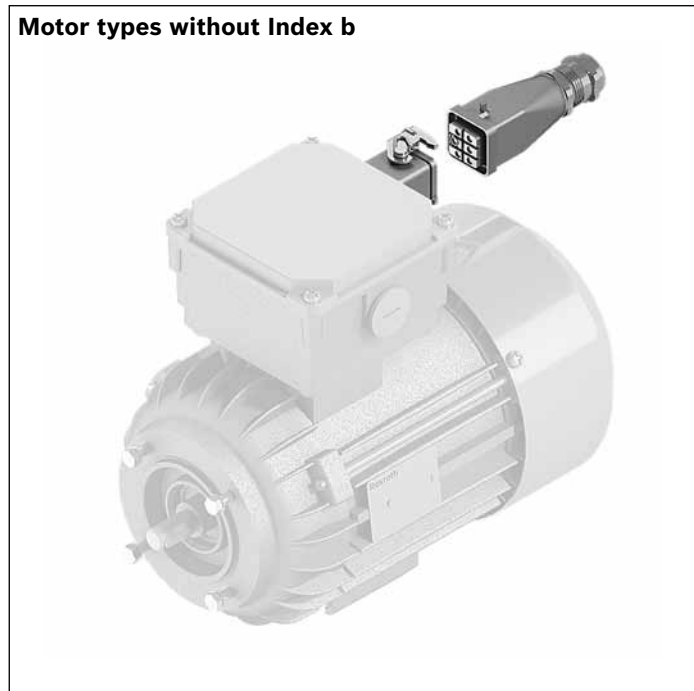
Electrical connection requirements:

Connection to a 3-phase, 5-wire system (L1, L2, L3, N, PE), a connection plan is included in the terminal box.

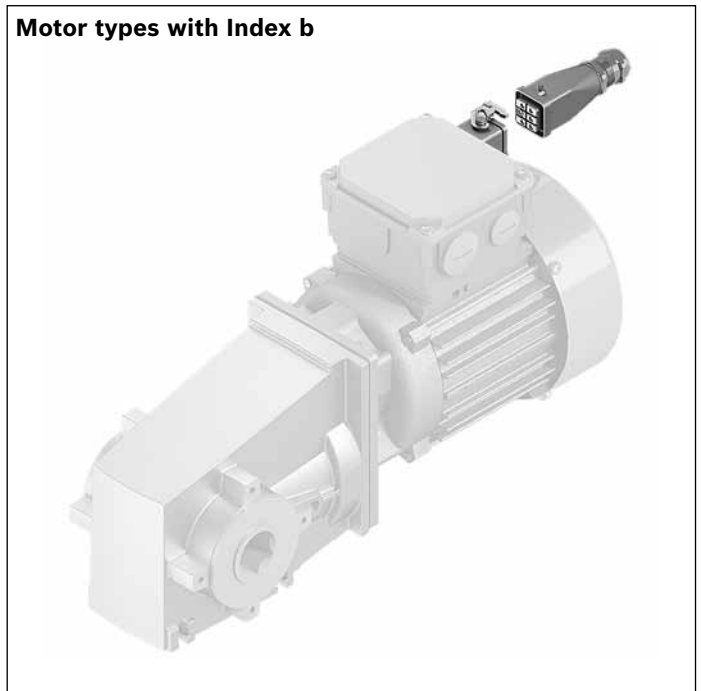
All motors are equipped with a thermal contact^{*)}, which has to be connected to an overload switch-off.

All of the motors comply with protection type IP 55.

*) Bi-metal thermal contact, tripping at $150\text{ °C} \pm 5\text{ °C}$



Motor connection with plug (AT = S) and 3A metal industrial plug-in connector for motor types without Index b, e.g. 734



Motor connection with plug (AT = S) and 3A metal industrial plug-in connector for motor types with Index b, e.g. 734b

Motor data

Performance data

Note: The data is typical values. We reserve the right to make changes. See motor type plate for official data. Please note the country assignment.

Voltage class	A	A	B	D
Circuit	Δ	Y	Y	Y
Voltage U at f = 50 Hz	200 V ±10%		400 V ±10%	
	200 V ±10%		400 V +10...-12%	
Voltage U at f = 60 Hz	220 V ±10%	400 V ±10%	460 V ±10%	575 V ±10%
	220 V ±10%	400 V ±10%	460 V +10...-12%	575 V ±10%

Motor type	IE3	Current consumption at rated power				Power factor cos φ	Power output for	
		I _N (A)	I _N (A)	I _N (A)	I _N (A)		(50 Hz) P (kW)	(60 Hz) P (kW)
524	x	0.65	0.35	0.32	0.24	0.6	0.09	0.1
614b	-	-	-	0.49	-	0.56	0.12	0.14
624	x	1.15	0.65	0.55	0.45	0.66	0.18	0.22
634	x	1.65	0.9	0.85	0.65	0.6	0.25	0.29
644b	-	-	-	-	0.75	0.6	0.25	0.29
714b	-	1.75	1	0.8	-	0.64	0.25	0.3
716b	-	1.45	0.85	0.6	0.55	0.66 ... 0.68	0.18	0.22
716	x	1.3	0.75	0.6	0.62	0.68	0.18	0.22
734b	-	2.3	1.35	0.95	0.95	0.72 ... 0.77	0.37	0.45
734	x	1.9	1.05	0.95	0.72	0.74	0.37	0.42
734a	x	2.5	1.4	1.3	1	0.66	0.45	0.52
738b	-	1.4	0.8	0.55	0.5	0.60 ... 0.63	0.12	0.14
744b	-	-	-	1.4	-	0.77	0.55	0.68
814b	-	3	1.75	-	1.27	0.68 ... 0.69	0.55	0.64
814	x	3.1	1.7	1.45	1.1	0.69	0.55	0.63
824	x	4.1	2.25	2	1.6	0.66	0.75	0.86

Suitable for continuous operation, start-stop operation with an operating time of up to 70% and frequency converter operation.

Certification for the motor, cable and plug components:

- IE3 motors: CE, cURURS, CCC
- Motors with Index b: CE/CCC (50 Hz), CE/cURUS (60 Hz)

3-phase motors

T _u (°C)	P _V / P _N
< 40	1 ¹⁾
45	0.95
50	0.90
55	0.85
60	0.8

¹⁾ Rated motor power (0.37; 0.25; 0.12 kW)

Rated motor power

The ambient operating temperature T_u influences the rated power P_N of the gear motors.