

PRODUCT DATASHEET



ELECTRICMOTOR

DATE 06.05.2026

CONFIGURATION

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CHARACTERISTIC	VALUE
Supplier	Motovario
Regulations	CE
Motor	Three-Phase
Size	O90S
Series	IE3 Premium Efficiency
Poles	4
Electrical Execution	Std (Voltage Tolerance +/- 10%)
Service	S1
Voltage	230/400-265/460 V
Frequency	50-60 Hz
Power	1,1 kW
Cooling	Self-Ventilated
Mounting Arrangements	B5
Flange Dim.	Ø200
Shaft Dim. (DE)	Ø24x50
Rear Shaft End (NDE)	No
Insulation Rating	F
Protection Rating	IP55
Thermal Protectors	No
Ambient Conditions	Standard
Heaters	No
Condensation Drainage	No
Devices	No
Accessories	None
Terminal Box Cover	Aluminium
Fan	Plastic
Fan Cover	Standard
MO-Notes	No



PERFORMANCES

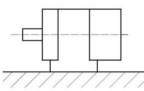
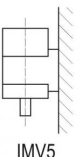
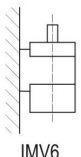
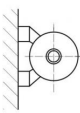
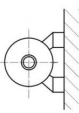
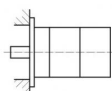
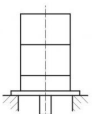
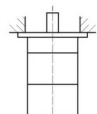
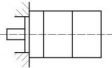
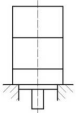
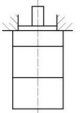
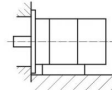
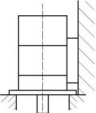
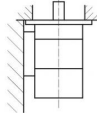
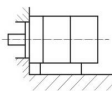
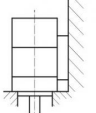
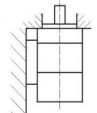
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P_n [kW]	Series	Size	n_n [rpm]	I_n [A]	M_n [Nm]		$\eta_n\%$ (4/4) limit	$\eta_n\%$ (4/4)	$\eta_n\%$ (3/4)	$\eta_n\%$ (2/4)	$\cos\varphi_n$	$\frac{M_s}{M_n}$	$\frac{I_s}{I_n}$	$\frac{M_{max}}{M_n}$	J_T	$J_{T,B}$	W_T	$W_{T,B}$	Z_o $10^{-3}\times 1/h$	M_B [Nm]
1,10	TP-TBP	90S4	1430	2,41	7,30	IE3	84,1	84,5	84,6	82,6	0,78	3,2	6,2	3,4	42,3	45,8	17,7	21,2	5,0	13,0

MOUNTING POSITIONS

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Mounting position: specific construction in relation to the mounting equipment, type of bearings and shaft end.
Installation type: positioning of the motor in relation to the axis line (horizontal or vertical) and mounting equipment.
The table lists the most common installation methods in relation to the mounting position.
With reference to standard IEC 60034-7, the electric motor's nameplate must be marked with the mounting position (IMB3, IMB5, IMB14, IMB34, IMB35) independently of the installation type.

IMB3	 IMB3	 IMV5	 IMV6	 IMB6	 IMB7	 IMB8
IMB5	 IMB5	 IMV1	 IMV3			
IMB14	 IMB14	 IMV18	 IMV19			
IMB35	 IMB35	 IMV15	 IMV36			
IMB34	 IMB34	 IMV15	 IMV36			

- Mounting position:
- IMB3 with feet
 - IMB5 with drive side flange, through holes
 - IMB14 with drive side flange, threaded holes
 - IMB35 with feet and drive side flange, through holes
 - IMB34 with feet and drive side flange, threaded holes

Besides being available in the above-indicated standardised mounting positions, motors are available also in compact versions; this applies to both aluminium CHA and CBA gear reducers (B10 mounting position) and to cast iron CH, CB and CS gear reducers (B11 mounting position). These mounting positions require special flanges integral with the gear reducer and cable output shaft where pinion is fitted before the reduction stage. The resulting gearmotor has reduced axial size. For further details, including dimensional drawings, refer to the specific catalogues of the gear reducers.