

Data sheet for three-phase Squirrel-Cage-Motors Innomotics



Motor type : 1CV4220B INNOMOTICS SD - 225 S - IM B3 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data														Safe Area				
U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL	
								4/4	3/4	2/4	4/4	3/4	2/4					
DOL duty (S1) - 155(F) to 130(B)																		
400	Δ	50	37.00	-/-	67.00	1485	240.0	95.2	95.5	95.2	0.84	0.80	0.70	8.4	3.2	3.2	IE4	
690	Y	50	37.00	-/-	38.50	1485	240.0	95.2	95.5	95.2	0.84	0.80	0.70	8.4	3.2	3.2	IE4	
460	Δ	60	42.50	-/-	66.00	1782	230.0	95.4	95.6	95.3	0.85	0.81	0.72	8.5	3.1	3.1	IE4	
460	Δ	60	37.00	-/-	59.00	1786	198.0	95.4	95.4	94.8	0.83	0.78	0.68	9.8	3.6	3.6	IE4	
IM B3 / IM 1001		FS 225 S		IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 35.20 s 46.80 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69.0 / 83.0 dB(A) 2) 3)	69.0 / 83.0 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.5200 kg m²		Thermal class	F
Bearing DE NDE	6213 Z C3	6213 Z C3	Duty type	S1
Bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	345 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	1471kg

Terminal box

Terminal box position	top	Main cable entry	2xM50x1.5
Material of terminal box	cast iron	Main cable gland	2 plugs
Type of terminal box	TB1 L01	Auxiliary cable entry	2xM20x1.5
Contact screw thread	6xM8	Auxiliary cable gland	2 plugs
Max. cross-sectional area	35.0 mm²		

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque
1) L_{10mh} according to DIN ISO 281 10/2010
2) at rated power / at full load
3) Value is valid only for DOL operation with motor design IC411

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Responsible department IN LV	Technical reference	Created by IPC	Approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
INNOMOTICS	Document type Technical data sheet			Document status Released			
	Document title 1LE1504-2BB03-4AB4-Z H01			Document number TDS-260512-140805			
Restricted © Innomotics 2026				Revision AA	Creation date 2026-05-12	Language en	Page 1/2

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Special design

H01 Bolted on mounting feet (instead of cast)

I_{Δ}/I_N = locked rotor current / current nominal
 M_{Δ}/M_N = locked rotor torque / torque nominal
 M_b/M_N = break down torque / nominal torque

1) $L_{100\%}$ according to DIN ISO 281 10/2010
2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

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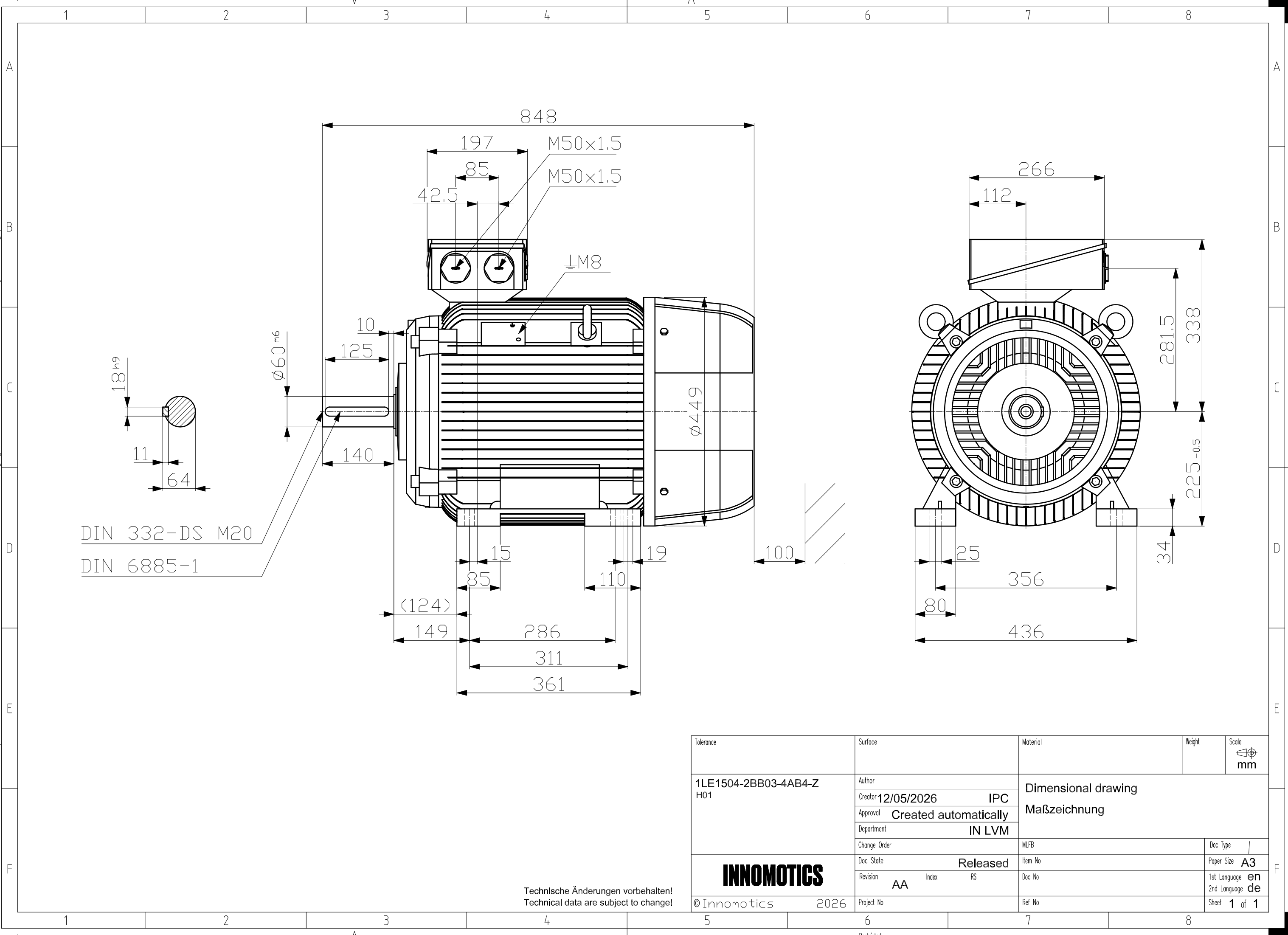
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Technische  nderungen vorbehalten!
Technical data are subject to change!

Tolerance	Surface	Material	Weight	Scale mm
1LE1504-2BB03-4AB4-Z H01	Author	Dimensional drawing Ma�zeichnung		
	Creator12/05/2026 IPC			
	Approval Created automatically			
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