

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



Motor type : 1CV4222B INNOMOTICS SD - 225 M - 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 T _I /T _N	M _K /M _N T _B /T _N	IE-CL	
DOL duty (S1) - 155(F) to 130(B)																		
400	Δ	50	45.00	-/-	81.00	1485	290.0	95.4	95.7	95.4	0.84	0.80	0.70	8.0	3.4	3.3	IE4	
690	Y	50	45.00	-/-	47.00	1485	290.0	95.4	95.7	95.4	0.84	0.80	0.70	8.0	3.4	3.3	IE4	
460	Δ	60	52.00	-/-	80.00	1785	280.0	95.4	95.6	95.2	0.85	0.81	0.72	8.2	3.2	3.2	IE3	
460	Δ	60	45.00	-/-	71.00	1786	240.0	95.4	95.4	94.7	0.83	0.78	0.67	9.3	3.9	3.7	IE4	
IM B3 / IM 1001		FS 225 M		IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 40.40 s 54.20 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	0.6600 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)	415 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	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	1815kg

Terminal box

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

I_A/I_N = locked rotor current / current nominal
M_K/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		
	Document type Technical data sheet			Document status Released			
	Document title 1LE1504-2BB23-4AA4-Z H01			Document number TDS-260512-141740			
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)

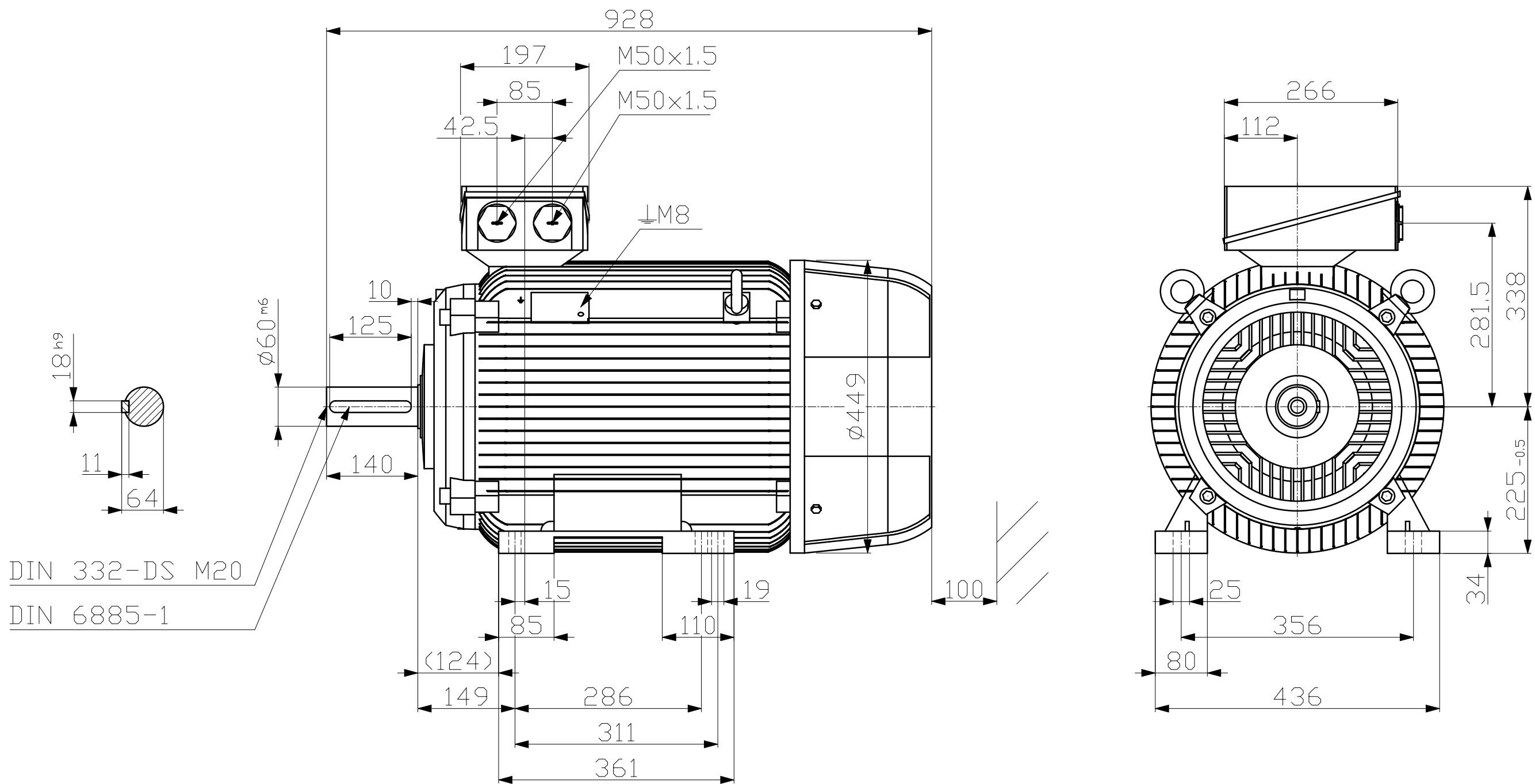
I_{sL}/I_N = locked rotor current / current nominal
 M_{sL}/M_N = locked rotor torque / torque nominal
 M_{br}/M_N = break down torque / nominal torque

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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Technische Änderungen vorbehalten!
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Tolerance	Surface	Material	Weight	Scale  mm
1LE1504-2BB23-4AA4-Z H01	Author	Dimensional drawing Maßzeichnung		
	Creator12/05/2026IPC			
	ApprovalCreated automatically			
	DepartmentIN LVM			
	Change Order	MLFB	Doc Type	
	Doc StateReleased	Item No	Paper Size	A3
	RevisionAAIndexRS	Doc No	1st Languageen 2nd Languagede	
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