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

Foglio dati per motori trifase con rotore a gabbia

Motor type / Tipo di motore : 1CV3220B **INNOMOTICS SD - 225 S - IM B3 - 4p**

Client order no. / N. d´ordine del cliente	Item-No. / Item-No.	Offer no. / N. di offerta
Order no. / N. d´ordine	Consignment no. / N. di commessa	Project / Progetto

Remarks / Annotazione

Safe Area

Electrical data / *Dati elettrici* **-/-**

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) / *Funzionamento da rete (S1)* - 155(F) to 130(B)																	
400	Δ	50	37.00	-/-	66.00	1478	240.0	93.9	94.5	94.4	0.86	0.83	0.74	6.4	2.5	2.7	IE3
460	Δ	60	42.50	-/-	66.00	1778	230.0	93.6	94.1	93.9	0.86	0.83	0.75	6.7	2.4	2.7	IE2
460	Δ	60	37.00	50.00	58.00	1782	198.0	94.5	94.7	94.2	0.85	0.81	0.71	7.5	2.8	3.0	MG1

IM B3 / IM 1001		FS 225 S	CC032A	IP55	UKCA	IEC/EN 60034	IEC, EN, UL, CSA, NEMA MG1-12-12	kVA Code: J

Environmental conditions / *Condizioni ambientali* : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) / *locked rotor time (hot / cold)* : 36.8 s | 55.7 s

Mechanical data / *Dati meccanici*

Sound level (SPL / SWL) at 50Hz|60Hz *Livello di rumorosità (LpA / LwA) a 50Hz/60Hz*	65 / 78 dB(A) 2) 3)	68 / 82 dB(A) 2) 3)	
Moment of inertia *Coppia di inerzia*	0.4200 kg m²		
Bearing DE | NDE *Cuscinetto lato DE | NDE*	6213 C3	6213 C3	
bearing lifetime / *Durata di vita del cuscinetto*			
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1) *L_{10mh} $F_{Rad\ min}$ Con trasmissione per accoppiamento 50|60Hz 1)*	40000 h	32000 h	
Relubrication interval/quantity DE | NDE *Intervallo di rilubrificazione/quantità DE | NDE*	20 g | 20 g 8000 h		
Lubricants *Lubrificante*	Unirex N3		
Regreasing device *Ingrassatore*	With *Sì*		
Grease nipple *Nipplo di lubrificazione*	M10x1 DIN 3404 A		
Type of bearing *Tipo di cuscinetto*	Locating bearing DE *cuscinetto fisso DE*		
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end) *Sì (lato opposto all'azionamento)*		

Isolamento cuscinetto DE (AS) / Isolamento cuscinetto NDE (BS)	
Condensate drainage holes *Fori per scarico condensa*	With (standard) *Sì (standard)*
External earthing terminal *Morsetto di messa a terra esterno*	With (standard) *Sì (standard)*
Vibration severity grade *Grado di vibrazione*	A *A*
Thermal class *Classe termica*	F *F*
Duty type *Modo di funzionamento*	S1
Direction of rotation *Senso di rotazione*	bidirectional *bidirezionale*
Frame material *Materiale della carcassa*	cast iron *fondo ghisa*
Net weight of the motor (IM B3) *Peso netto del motore (IM B3)*	285 kg
Coating (paint finish) *Verniciatura*	Standard paint finish C2 *Verniciatura normale C2*
Color, paint shade *Colore*	RAL7030
Motor protection *Protezione del motore*	(K) 1 Pt1000 resistance thermometer(2 terminals) *(K) 1 termometro a resistenza Pt1000 (2 morsetti)*
Method of cooling *Tipo di raffreddamento*	IC411 - self ventilated, surface cooled *IC411 - autoventilato, raffreddamento superficiale*

Terminal box / *Morsettiera*

Terminal box position *Morsettiera sul fianco posizione*	top *in alto*	Main cable entry *Ingresso cavo principale*	2xM50x1.5
Material of terminal box *Materiale della morsettiera*	cast iron *ghisa*	Main cable gland *Pressacavo principale*	2 plugs
Type of terminal box *Tipo di morsettiera*	TB1 L01	Auxiliary cable entry *Ingresso cavo ausiliario*	2xM20x1.5
Contact screw thread *Filettatura della vite di contatto*	6xM8	Auxiliary cable gland *Pressacavo ausiliario*	2 plugs
Max. cross-sectional area *Sezione max. del cavo*	35 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

Responsible department	Technical reference	Created by	Approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
IN LVM		SPC	Created automatically		

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Document type	Document status
Technical data sheet	Released
Document title	**Document number**
1LE1523-2BB03-4AK4-Z **L23+L51**	TDS-250603-110107

Restricted	Revision	Creation date	Language	Page
	AA	2025-06-03	en/it	1/2

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Special design / *Esecuzione speciale*

L23	Regreasing system *Ingrassatore*	L51	Bearing insulation NDE *Isolamento cuscinetti NDE (BS)*

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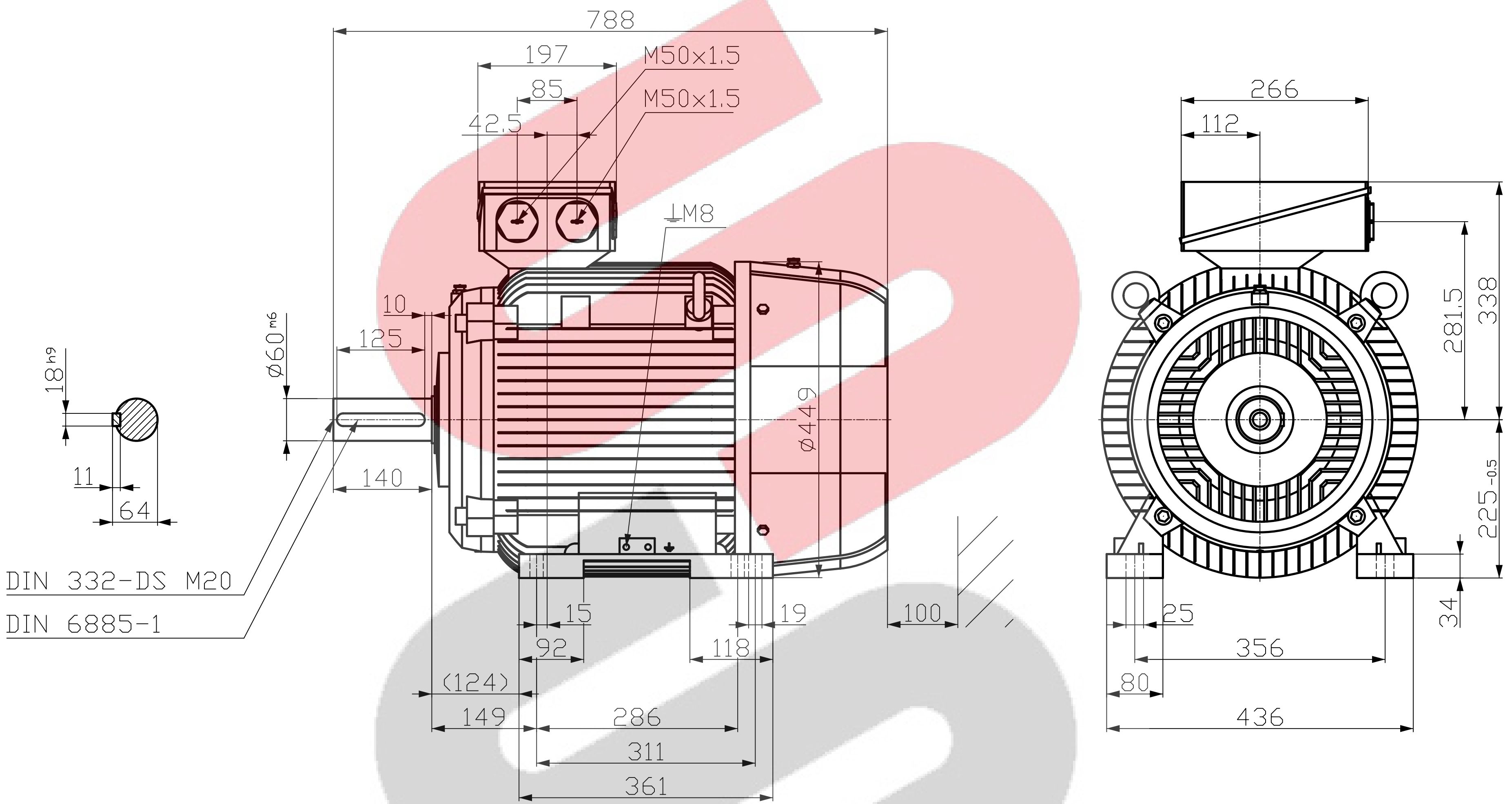

Tolerance	Surface	Material	Weight	Scale
			-	mm

1LE1523-2BB03-4AK4-Z
L23+L51

Author			Dimensional drawing
Creator	6/3/25	SPC	MaÇzeichnung
Approval	Created automatically		
Department	IN LVM		
Change Order		MLFB	Doc Type
Doc State	Released	Item No	Paper Size A3
Revision AA	Index RS	Doc No	1st Language en / 2nd Language de
Project No -		Ref No -	Sheet 1 of 1

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