

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	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _f /I _N	T _f /T _N	T _B /T _N	
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)}	Isolamento cuscinetto DE (AS) / Isolamento cuscinetto NDE (BS)	
Moment of inertia Coppia di inerzia	0.4200 kg m ²		Condensate drainage holes Fori per scarico condensa	With (standard) Sì (standard)
Bearing DE NDE Cuscinetto lato DE NDE	6213 C3	6213 C3	External earthing terminal Morsetto di messa a terra esterno	With (standard) Sì (standard)
bearing lifetime / Durata di vita del cuscinetto			Vibration severity grade Grado di vibrazione	A A
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Thermal class Classe termica	F F
L _{10mh} F _{Rad min} Con trasmissione per accoppiamento 50 60Hz ¹⁾			Duty type Modalità di funzionamento	S1
Relubrication interval/quantity DE NDE Intervallo di rilubrificazione/quantità DE NDE	20 g 20 g 8000 h		Direction of rotation Senso di rotazione	bidirectional bidirezionale
Lubricants Lubrificanti	Unirex N3		Frame material Materiale della carcassa	cast iron fondo ghisa
Regreasing device Ingrassatore	With Sì		Net weight of the motor (IM B3) Peso netto del motore (IM B3)	285 kg
Grease nipple Nipplo di lubrificazione	M10x1 DIN 3404 A		Coating (paint finish) Verniciatura	Standard paint finish C2 Verniciatura normale C2
Type of bearing Tipo di cuscinetto	Locating bearing DE cuscinetto fisso DE		Color, paint shade Colore	RAL7030
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end) Sì (lato opposto all'azionamento)		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 / Morsetti

Terminal box position Morsetti sul fianco posizione	top in alto	Main cable entry Ingresso cavo principale	2xM50x1.5
Material of terminal box Materiale della morsetti	cast iron ghisa	Main cable gland Pressacavo principale	2 plugs
Type of terminal box Tipo di morsetti	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 mm ²		

I _A /I _N = locked rotor current / current nominal	1) L _{10mh} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _A /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	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 1LE1523-2BB03-4AK4-Z			Document number TDS-250603-110107			
Restricted © Innomotics 2025	L23+L51			Revision AA	Creation date 2025-06-03	Language en/it	Page 1/2

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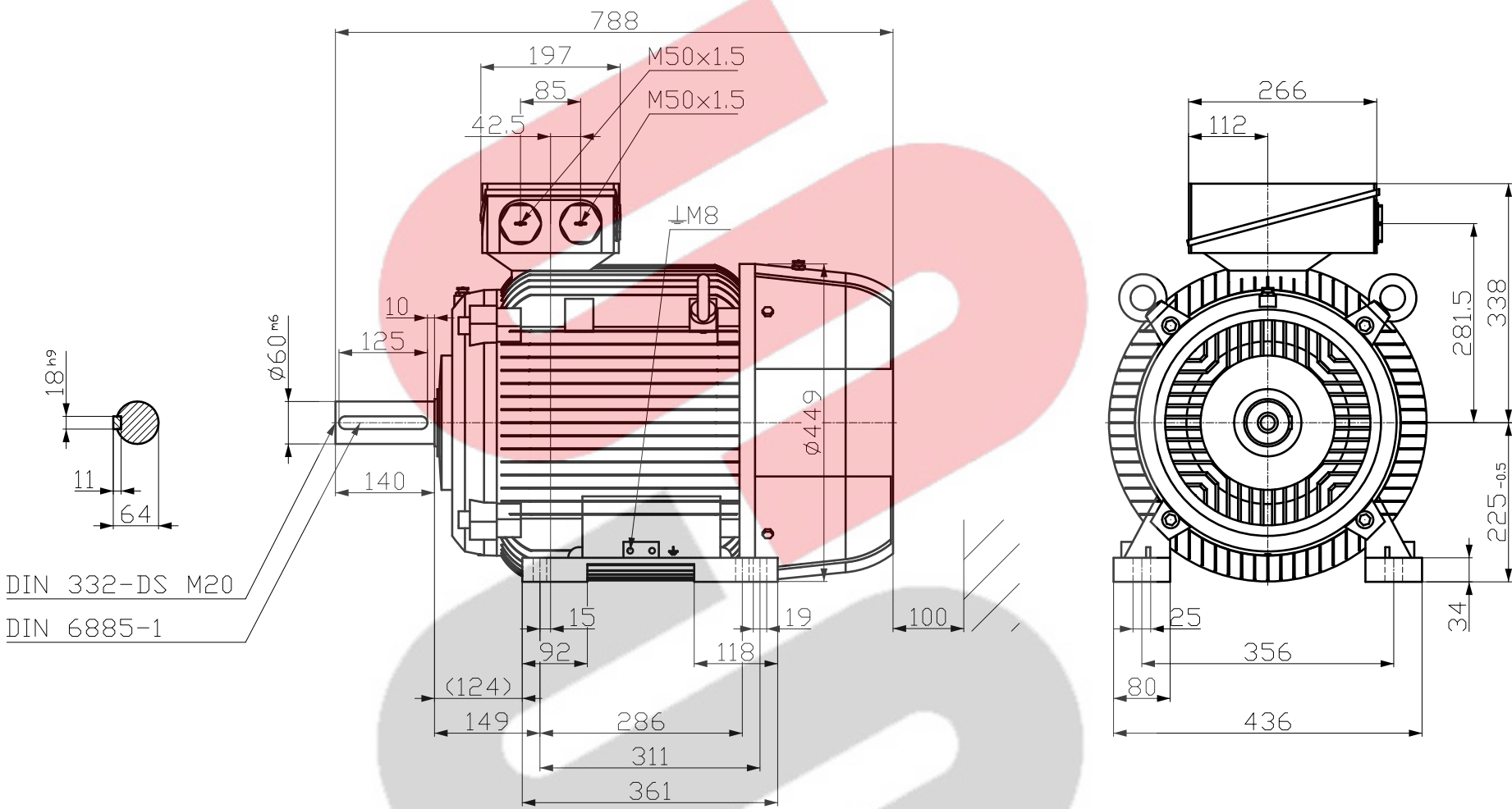
Special design / Esecuzione speciale

L23	Regreasing system Ingrassatore	L51	Bearing insulation NDE Isolamento cuscinetti NDE (BS)
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DIN 332-DS M20
DIN 6885-1

Tolerance	Surface	Material	Weight	Scale
1LE1523-2BB03-4AK4-Z L23+L51	Author Creator 6/3/25 SPC Approval Created automatically Department IN LVM Change Order Doc. State Released Revision AA Index RS	Dimensional drawing Maßezeichnung		mm
INNOMOTICS	Doc. State Released	MLFB	Doc. Type	
©Innomotics 2025	Project No -	Item No	Paper Size A3	
		Doc No	1st Language en 2nd Language de	
		Ref No -	Sheet 1 of 1	

Technische Änderungen vorbehalten!
Technical data are subject to change!