

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



Motor type : 1CV2282B INNOMOTICS SD - 280 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 I _L /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	90.00	-/-	159.00	1486	580.0	94.2	94.3	93.6	0.87	0.84	0.75	7.3	2.6	3.1	IE2
690	Y	50	90.00	-/-	92.00	1486	580.0	94.2	94.3	93.6	0.87	0.84	0.75	7.3	2.6	3.1	IE2
460	Δ	60	104.00	-/-	158.00	1785	560.0	95.0	95.1	94.3	0.87	0.85	0.77	7.2	2.5	3.1	IE2
460	Δ	60	90.00	-/-	137.00	1788	480.0	94.5	94.3	93.3	0.87	0.84	0.75	8.1	2.9	3.4	IE2
IM B3 / IM 1001		FS 280 M		IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 16.60 s 35.50 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	71.0 / 85.0 dB(A) ²⁾ ₃₎	78.0 / 92.0 dB(A) ²⁾ ₃₎	External earthing terminal	With (standard)
Moment of inertia	1.4000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6317 C3	6317 C3	Thermal class	F
Bearing lifetime			Duty type	S1
L _{10mh} F _{rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	30.0 g 30.0 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	570 kg
Regreasing device	With		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	120.0 mm ²
Material of terminal box	cast iron	Main cable entry	2xM63x1.5
Type of terminal box	TB1 N01	Main cable gland	2 plugs
Contact screw thread	6xM10		

I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_L/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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	Document title 1LE1501-2DB23-4AA4-Z D22	Document number TDS-260512-144814			
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INNOMOTICS SD - 280 M - IM B3 - 4p

D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)
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L23	Regreasing system	L25	Double sides reinforced bearings for DE and NDE, Type 63
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I_L/I_N = locked rotor current / current nominal
 M_L/M_N = locked rotor torque / torque nominal
 M_B/M_N = break down torque / nominal torque

1) $L_{10\text{min}}$ 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

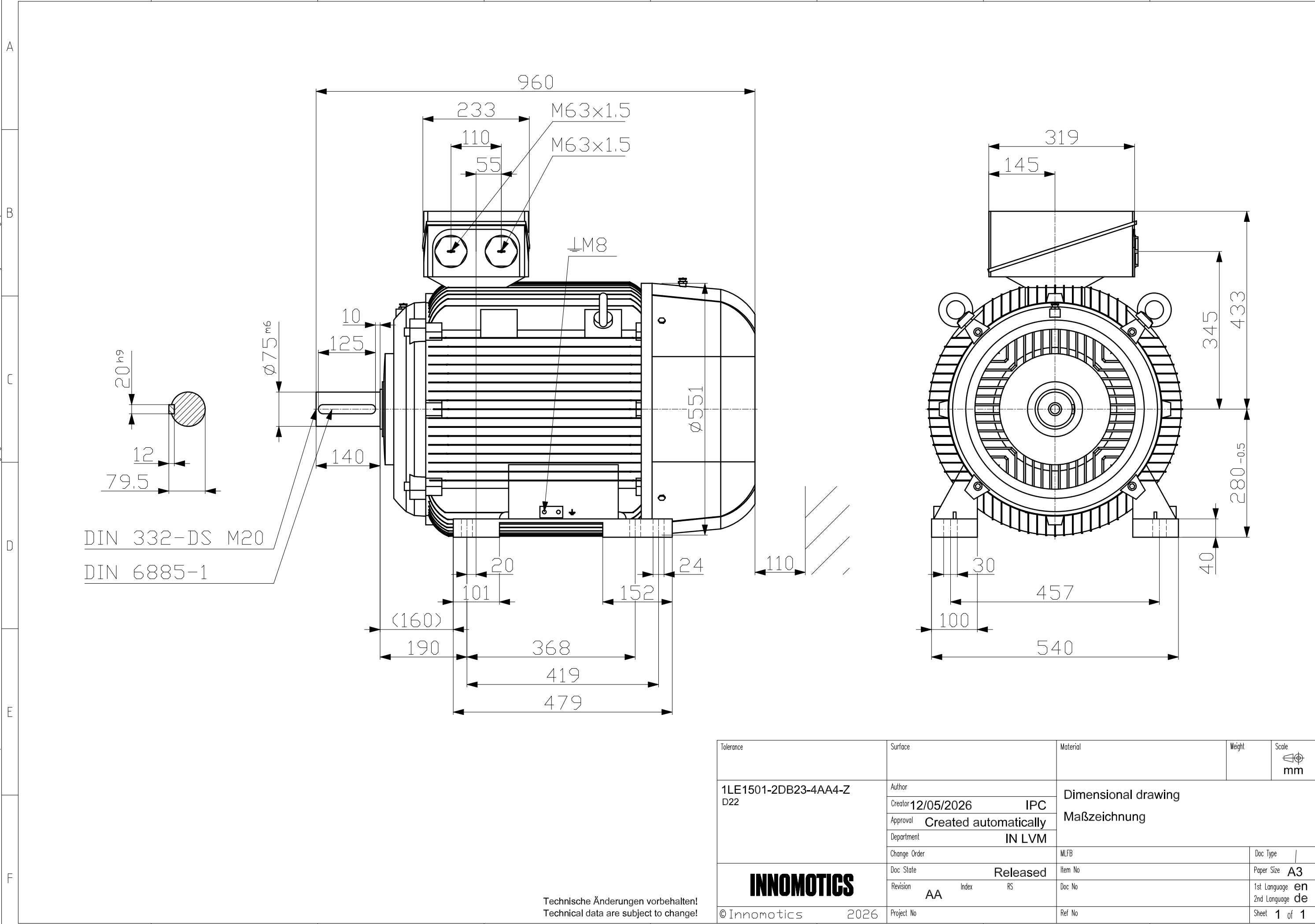
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