

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



Motor type : 1CV3182B INNOMOTICS SD - 180 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	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	18.50	-/-	35.00	1470	120.0	92.6	93.1	92.9	0.82	0.77	0.68	7.2	2.5	3.3	IE3
690	Y	50	18.50	-/-	20.50	1470	120.0	92.6	93.1	92.9	0.82	0.77	0.68	7.2	2.5	3.3	IE3
460	Δ	60	21.30	-/-	35.00	1770	115.0	92.4	92.8	92.4	0.83	0.79	0.70	7.2	2.4	3.2	IE2
460	Δ	60	18.50	-/-	30.50	1775	100.0	93.6	93.6	92.7	0.81	0.74	0.62	8.7	2.6	3.8	IE3
IM B3 / IM 1001		FS 180 M		IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 28.70 s 41.60 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	66.0 / 73.0 dB(A) 2) 3)	68.0 / 75.0 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.1300 kg m²		Thermal class	F
Bearing DE NDE	6210 2Z C3	6210 2Z 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)	166 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)	704kg

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm²
Material of terminal box	cast iron	Main cable entry	2xM40x1.5
Type of terminal box	TB1 J01	Main cable gland	2 plugs
Contact screw thread	6xM5		

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 1LE1503-1EB23-4AA4-Z H01			Document number TDS-260512-134339			
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INNOMOTICS SD - 180 M - IM B3 - 4p

H01	Bolted on mounting feet (instead of cast)
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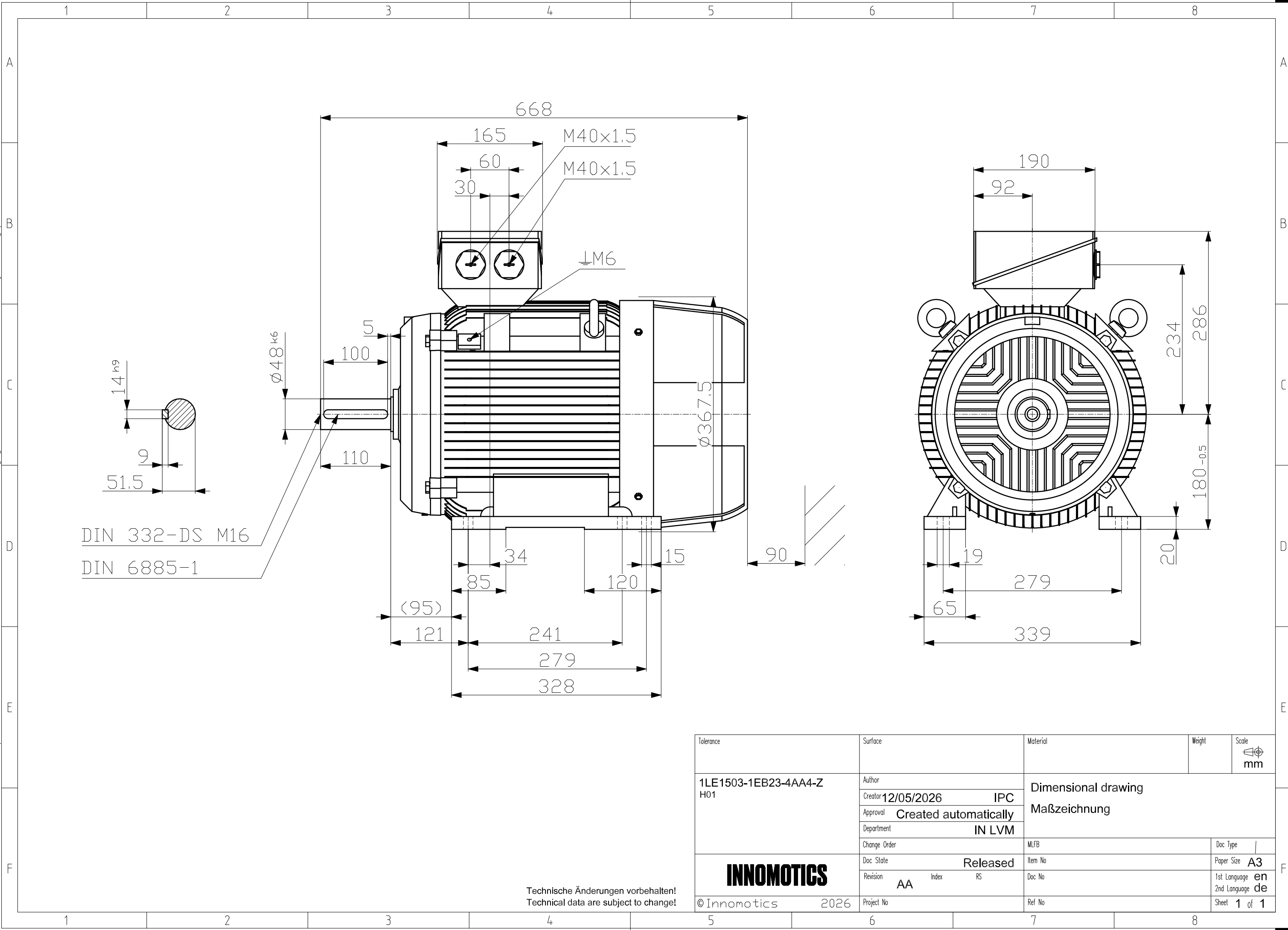
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