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

Motor type : 1AV3116A **SIMOTICS GP - 112 M - IM B3 - 2p**

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) 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
230	Δ	50	5.50	-/-	18.00	2950	17.8	89.2	89.5	88.8	0.86	0.82	0.73	8.8	2.7	3.9	IE3
400	Y	50	5.50	-/-	10.40	2950	17.8	89.2	89.5	88.8	0.86	0.82	0.73	8.8	2.7	3.9	IE3
460	Y	60	6.30	-/-	10.00	3550	16.9	89.5	89.8	88.7	0.88	0.84	0.76	9.2	2.8	4.0	IE3
460	Y	60	5.50	-/-	9.00	3560	14.8	89.5	89.3	87.8	0.86	0.81	0.72	10.4	3.1	4.7	IE3

IM B3 / IM 1001		FS 112 M		IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN		

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

Locked rotor time (hot / cold) : 7.14 s | 10.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	69 / 77 dB(A) 2)	73 / 81 dB(A) 2)	Vibration severity grade	A
Moment of inertia	0.0096 kg m²		Insulation	155(F) to 130(B)
Bearing DE | NDE	6206 2Z C3	6206 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	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	36 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5
Contact screw thread	M4	Cable gland	2 plugs

Notes:

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) L10mh 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 dep.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

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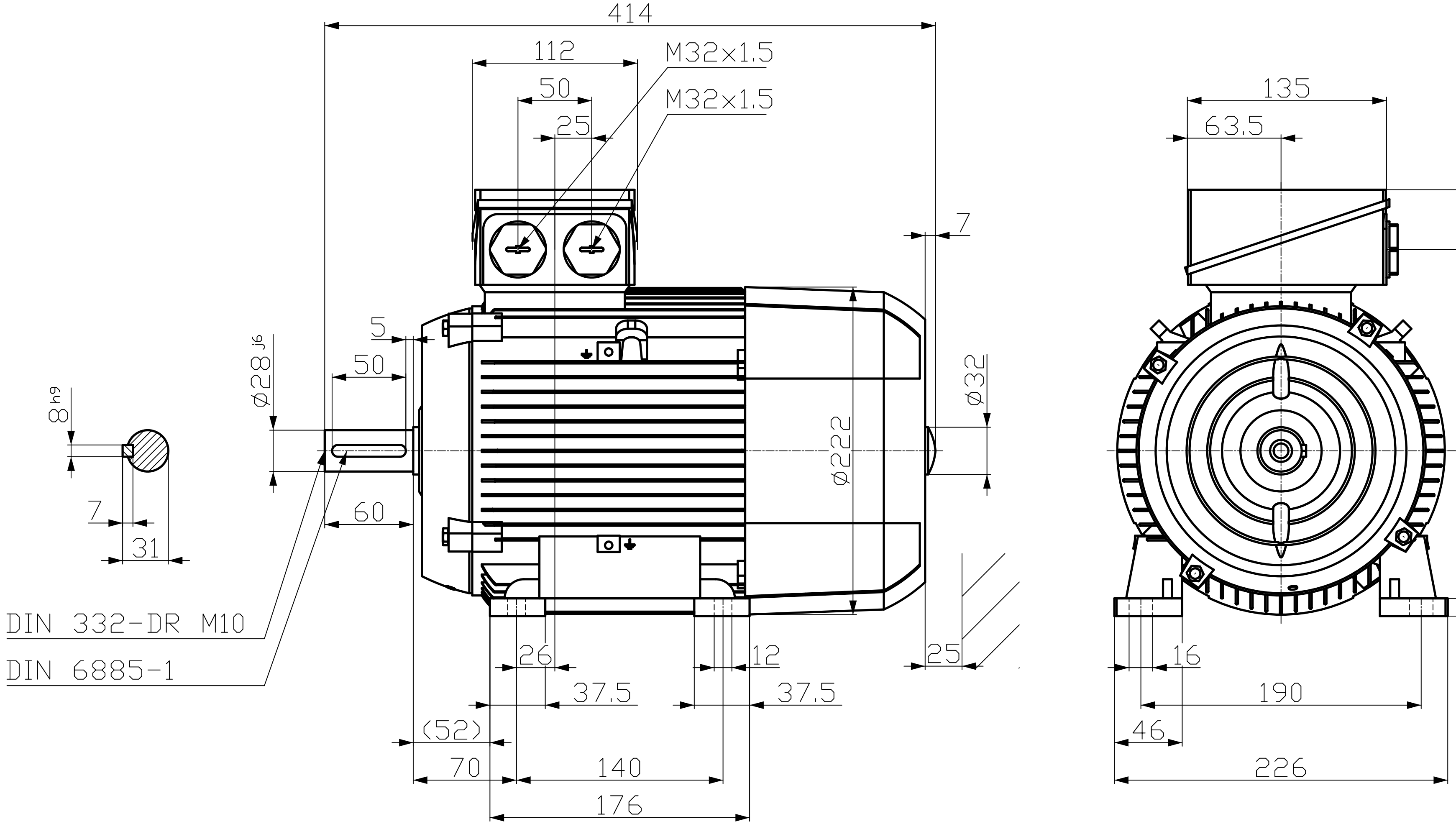

Tolerance	Surface	Material	Weight	Scale
			-	mm
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