<u>Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS</u>

Motor type: 1AV3164B SIMOT	ГІСЅ GP - 160 L - IM V5 - 4p
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Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
D		·

Remarks

Electrical data Safe Area

U	Δ/Υ	f	Р	Р	I	n	М		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 _I /I _N	T _I /T _N	T _B /T _N	
380	Δ	50	13.80	-/-	28.50	1475	89.3	92.2	92.1	91.0	0.80	0.73	0.61	9.2	2.7	4.1	IE3
660	Υ	50	13.80	-/-	16.40	1475	89.3	92.2	92.1	91.0	0.80	0.73	0.61	9.2	2.7	4.1	IE3
440	Δ	60	15.91	-/-	27.50	1775	85.6	93.6	93.5	92.4	0.81	0.76	0.65	9.2	2.7	4.0	IE3
440	Δ	60	15.00	-/-	26.00	1780	80.0	93.0	92.8	91.4	0.81	0.75	0.64	9.5	2.9	4.3	IE3
IM V5 / II	M 1011		FS 160 L	1	00 kg	IP55		IEC/EN	60034		IEC, DIN, IS	O, VDE, EN	I				

Environmental conditions : $-20 \,^{\circ}\text{C} - +50 \,^{\circ}\text{C} \, / \, 1,000 \,\text{m}$ Locked rotor time (hot / cold): 16.4 s | 23.9 s

These values are calculated. The final rating plate data will be calculated when the order is placed The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65.0 / 77.0 dB(A) ²⁾	69.0 / 81.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0850 kg m² \		Vibration severity grade	А
Bearing DE NDE	6309 2Z C3	6209 2Z C3	Insulation	155(F) to 130(B)
bearing lifetime	aring lifetime		Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h 32000 h D		Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	aluminum
Regreasing device	No		Coating (paint finish)	Special paint finish C3
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm ²		
Material of terminal box	Aluminium	Cable diameter from to	19.0 mm - 28.0 mm		
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5-1xM16x1,5		
Contact screw thread	M5	Cable gland	3 plugs		

approved by

Notes:

responsible dep.

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I_A/I_N = locked rotor current / current nominal M_A/M_N = locked rotor torque / torque nominal 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

 M_K/M_N = break down torque / nominal torque

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H00+L22+N06+N31

technical reference

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between calculated and rating plate values.

Technical data are subject to change! There may be discrepancies

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Special o	design								
H00	Canopy			N06	Temperature c	lass 155 (F), utilised to 130 (B), co reduced	oling medi	um
L22				N31					
LZZ	Bearing design for inc	creased cantilever forces		1451	Increased air h	umidity/ter	mperature with 60 to 10	00 g water	per m3 air
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