

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



Motor type : 1AV3164B

SIMOTICS GP - 160 L - IM B5 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

## Electrical data

## Safe Area

U [V]	$\Delta / Y$	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta$ <sup>3)</sup>			$\cos\phi$ <sup>3)</sup>			$I_A/I_N$ $I_i/I_N$	$M_A/M_N$ $T_i/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
380	$\Delta$	50	15.00	-/-	30.00	1475	97.0	92.1	92.3	91.5	0.82	0.76	0.65	8.5	2.5	3.8	IE3
660	Y	50	15.00	-/-	17.40	1475	97.0	92.1	92.3	91.5	0.82	0.76	0.65	8.5	2.5	3.8	IE3
440	$\Delta$	60	17.30	-/-	29.00	1775	93.0	93.6	93.7	92.9	0.83	0.78	0.68	8.5	2.5	3.7	IE3
440	$\Delta$	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 B5 / IM 3001			FS 160 L	100 kg	IP55	IEC/EN 60034		IEC, DIN, ISO, VDE, EN									

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

Locked rotor time (hot / cold) : 16.4 s | 23.9 s

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65.0 / 77.0 dB(A) <sup>2)</sup>	69.0 / 81.0 dB(A) <sup>2)</sup>	External earthing terminal	No
Moment of inertia	0.0850 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6209 2Z C3	6209 2Z C3	Insulation	155(F) to 130(B)
<b>bearing lifetime</b>			Duty type	S1
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	aluminum
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box


Terminal box position	top	Max. cross-sectional area	16.0 mm <sup>2</sup>
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
Contact screw thread	M5	Cable gland	2 plugs

### Notes:

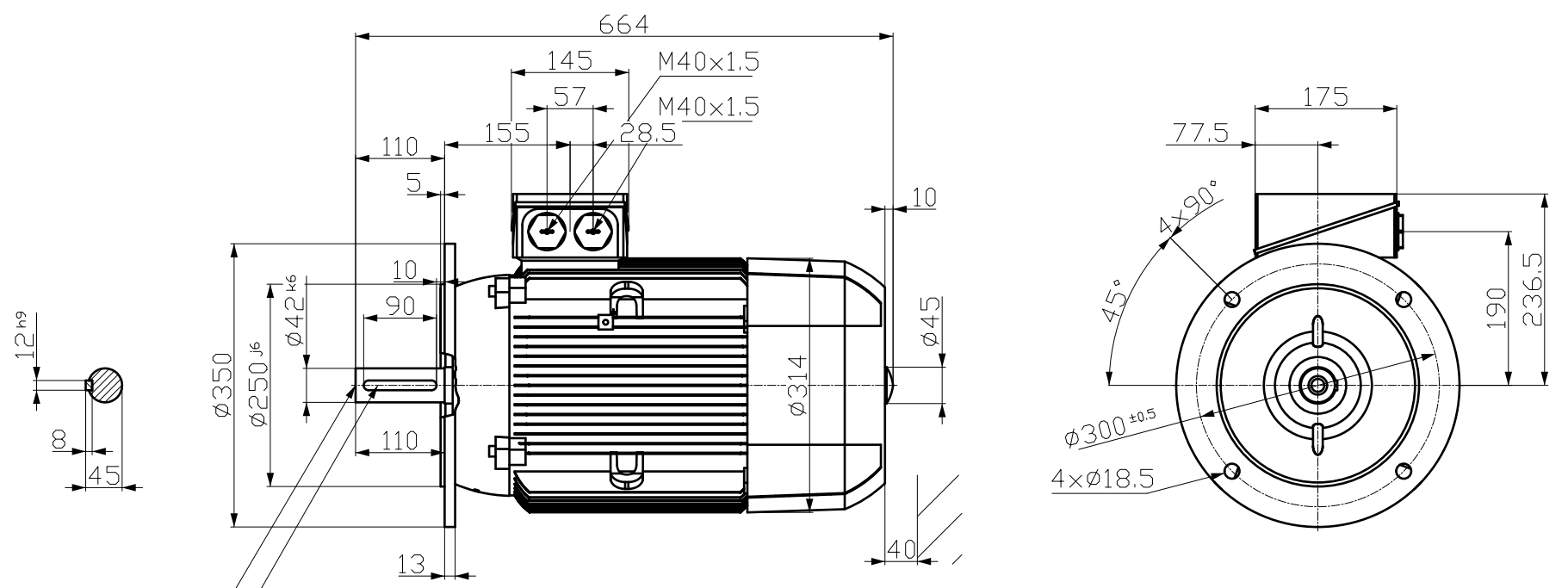
$I_A/I_N$  = locked rotor current / current nominal  
 $M_A/M_N$  = locked rotor torque / torque nominal  
 $M_K/M_N$  = break down torque / nominal torque

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. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>			
	document type datasheet	document status released		customer			
	title 1LE1003-1DB43-3FA4	document number					
© Siemens AG 2021	rev. 01	creation date 2021-06-23 14:50	language en	Page 1/1			

刀纸等  
 用转为于  
 用文金路  
 积  
 此图  
 1. 设计  
 2. 审核  
 3. 批准  
 4. 更改  
 5. 作废  
 6. 回收  
 7. 销毁  
 8. 其他



DIN 332-DR M16  
DIN 6885-1

Tolerance	Surface	Material	Weight	Scale
$\pm 0.1$			É	1:1
FSÖFEHÖÖH HÖÖE	Author	ÖS	ÖS	
É	Creator	ÖVS	Tæ: ^æ@`*`	
	Approval			
	Department			
	Change Order	MFB	Doc Type	/
	Doc State	Í	Item No	Paper Size CH
	Revision	Index RS	Doc No	1st Language ^
				2nd Language â
© Siemens AG 2018	Project No É	Ref No É	Sheet	F of F

SIEMENS