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

Environmental conditions :  $-20 \,^{\circ}\text{C} - +50 \,^{\circ}\text{C} \, / \, 1,000 \,\text{m}$ 

Locked rotor time (hot / cold): 33.6 s | 54.2 s

Motor type: 1AV2164C	SIMOTICS GP - 160 L - IM V6 - 6p

Wotor type . IAVZTO4C	Silviories di - 100 E - IIVI VO - Op	
Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

Electrical data Safe Area																	
U	Δ/Υ	f	P	P	I	n	М		η <sup>3)</sup>			cosφ <sup>3)</sup>		I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I <sub>I</sub> /I <sub>N</sub>	T <sub>I</sub> /T <sub>N</sub>	T <sub>B</sub> /T <sub>N</sub>	
415	Δ	50	10.12	-/-	21.50	975	99.1	89.0	89.6	89.0	0.74	0.68	0.56	5.2	2.1	2.4	IE2
480	Δ	60	11.59	-/-	20.50	1175	94.2	90.5	91.0	90.4	0.75	0.70	0.59	5.3	2.1	2.4	IE2
480	Δ	60	11.00	-/-	19.80	1180	89.0	90.2	90.5	89.5	0.74	0.69	0.58	5.5	2.2	2.5	IE2
IM V6 / I	M 1031		FS 160 L		93 kg	IP55	•	IEC/EN	60034		IEC, DIN, IS	SO, VDE, EN	1				

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	67.0 / 79.0 dB(A) <sup>2)</sup>	70.0 / 82.0 dB(A) <sup>2)</sup>	External earthing terminal	No
Moment of inertia	0.0980 kg m² \		Vibration severity grade	A
Bearing DE   NDE	6309 2Z C3 6309 2Z C3 I		Insulation	155(F) to 130(B)
bearing lifetime			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	-1-		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes		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<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal 1) L10mh according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411 M<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal 2) at rated power / at full load $M_K/M_N$ = break down torque / nominal torque Technical data are subject to change! There may be discrepancies responsible dep. technical reference created by approved by between calculated and rating plate values. DI MC LVM **DT** Configurator document type document status **SIEMENS** datasheet released document number 1LE1001-1DC43-5DA4-Z L20+L25+M10+N06+Y80 rev. creation date Page language © Siemens AG 2021 2021-04-22 00:15

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L20+L25+M10+N06+Y80

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language

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Motor ty	ype :1AV2164C		SIMOTICS GP -	160 L - IM	1 V6 - 6p		•	
Special	design							
L20				N06	Temperature of	class 155 (F), utilised to 50°C, power reduced	130 (B), co	oling medium
L25	Locating bearing, DE			Y80				
M10	Additional rating plate	d bearings for DE and NI	DE, Type 63		Supplementar	y rating plate with differ	ent data	
Notes:								
reconside	le den	technical reference	created by	annro:	ad by	Technical data are s	ubject to chan	ge! There may be discrepancies
responsible		technical reference	created by	approve	eu by	between calculated		
או וער F,	V IVI	document type	DT Configurator			document status	1	customer
SII	<b>EMENS</b>	datasheet title				released		
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