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

Motor type : 1AV3164B **SIMOTICS GP - 160 L - IM V6 - 4p**

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

Remarks

Safe Area

Electrical data **-/-**

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
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	15.00	-/-	28.50	1465	98.0	92.1	92.7	92.0	0.83	0.78	0.67	7.9	2.8	3.4	IE3
690	Y	50	15.00	-/-	16.40	1465	98.0	92.1	92.7	92.0	0.83	0.78	0.67	7.9	2.8	3.4	IE3
460	Δ	60	17.30	-/-	28.50	1765	94.0	92.4	92.5	92.0	0.83	0.79	0.69	7.9	2.7	3.3	IE2
460	Δ	60	15.00	-/-	25.00	1775	81.0	93.0	92.9	92.1	0.81	0.75	0.64	8.9	3.1	3.8	IE3
IM V6 / IM 1031		FS 160 L			IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1000 m | Locked rotor time (hot / cold) : 24.6 s | 33.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	58 / 66 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.0890 kg m²	Thermal class	F
Bearing DE | NDE	6309 2Z C3 / 6309 2Z C3	Duty type	S1
bearing lifetime		Direction of rotation	bidirectional
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	20000 h / 16000 h	Frame material	aluminum
Regreasing device	Without	Net weight of the motor (IM B3)	106 kg
Grease nipple	-/-	Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE	Color, paint shade	RAL7030
Condensate drainage holes	Without	Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	Without	Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 plugs

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

Responsible department	Technical reference	Created by	Approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
IN LVM		SPC	Created automatically		

SIEMENS

Document type	Document status
Technical data sheet	Released
Document title	**Document number**
1LE1003-1DB43-4DB4-Z	TDS-240329-100837
G12+L25+R11	

Restricted	Revision	Creation date	Language	Page
	AA	2024-03-29	en	1/2

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

Motor type : 1AV3164B **SIMOTICS GP - 160 L - IM V6 - 4p**

Special design

G12	Rotary pulse encoder Sendix 5020 (TTL)	R11	Terminal box rotated through 90°, cable entry from NDE
L25	Double sides reinforced bearings for DE and NDE, Type 63		