

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



Motor type : 1CD3083B

SIMOTICS XP - 80 M - IM B34 - 4p

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

Remarks

II 2G Ex db eb IIC T4 Gb

-/-

## Electrical data

U [V]	$\Delta / Y$	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{3)}$			$\cos\phi^{3)}$			$I_A/I_N$ $I_i/I_N$	$M_A/M_N$ $T_i/T_N$	$M_k/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
230	$\Delta$	50	0.75	-/-	3.05	1450	5.0	82.5	82.3	79.9	0.75	0.66	0.53	7.1	2.7	3.9	IE3
400	Y	50	0.75	-/-	1.75	1450	5.0	82.5	82.3	79.9	0.75	0.66	0.53	7.1	2.7	3.9	IE3
460	Y	60	0.75	-/-	1.59	1760	4.0	83.5	82.6	79.3	0.71	0.62	0.49	8.3	3.1	4.7	IE3
IM B34 / IM 2101		FS 80 M		IP55		IEC/EN 60034											

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 16.8 s | 20.3 s

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	62 / 70 dB(A) <sup>2) 3)</sup>	55 / 66 dB(A) <sup>2) 3)</sup>	Thermal class	F
Moment of inertia	0.0030 kg m <sup>2</sup>		Duty type	S1
Bearing DE   NDE	6204 2Z C3	6204 2Z C3	Direction of rotation	bidirectional
<b>bearing lifetime</b>			Frame material	cast iron
$L_{10mh}$ , $F_{Rad}$ min 50 60Hz <sup>1)</sup> for coupling operation	40000 h	32000 h	Net weight of the motor	34 kg
Regreasing device	Without		Motor weight incl. options	34 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
Vibration severity grade	A			

## Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E21	Cable entry	-/-
Contact screw thread	M4		

### Notes:

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

<sup>1)</sup>  $L_{10mh}$  according to DIN ISO 281 10/2010  
<sup>2)</sup> at rated power / at full load

<sup>3)</sup> Value is valid only for DOL operation with motor design IC411

responsible dep. IN LVM	technical reference	created by SPC	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	<a href="#">Link documents</a>
	document type datasheet	document status released			document number
	title 1MB1553-0DB32-2NB4	rev. 951	creation date 2023-12-14		
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