

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



Motor type : 1CV3314A

SIMOTICS SD - 315 L - IM B3 - 2p

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>			$I_A/I_N$ $I_f/I_N$	$M_A/M_N$ $T_f/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
400	$\Delta$	50	160.00	-/-	265.00	2982	510.0	95.6	95.7	95.2	0.92	0.91	0.86	7.8	2.8	3.3	IE3
690	Y	50	160.00	-/-	152.00	2982	510.0	95.6	95.7	95.2	0.92	0.91	0.86	7.8	2.8	3.3	IE3
460	$\Delta$	60	180.00	-/-	255.00	3582	480.0	95.4	95.1	94.6	0.92	0.91	0.86	7.7	2.8	3.1	IE2
460	$\Delta$	60	160.00	-/-	230.00	3588	425.0	95.4	95.1	93.9	0.91	0.89	0.83	8.8	3.2	3.5	IE3
IM B3 / IM 1001		FS 315 L		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN									
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 38 s   62.7 s							

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	77 / 91 dB(A) <sup>2) 3)</sup>	82 / 96 dB(A) <sup>2) 3)</sup>	External earthing terminal	Yes (standard)
Moment of inertia	1.9000 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6316 C3	6316 C3	Thermal class	F
<b>bearing lifetime</b>			Duty type	S1
$L_{10mh}$ , $F_{Rad}$ , $f_{min}$ for coupling operation 50 60Hz	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE   NDE	30 g   30 g 3000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	980 kg
Regreasing device	Yes (standard)		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Max. cross-sectional area	240 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	38 mm - 45 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5
Contact screw thread	M12	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>	<a href="#">Link documents</a>	
	document type datasheet	document status released				
	title 1LE1503-3AA43-4AA4-Z Q78	document number				
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## Special design

Q78 2 Pt100 resistance thermometers in 3-wire input for bearing (6 terminals)

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