

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

Motor type: **7CV3312A** SIMOTICS SD - 315M - IM B3 - 2 p

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

Remarks

## Electrical data

## Safe Area

U	$\Delta/Y$	f	P	P	I	n	M	M	$\eta^{3)}$			$\cos\phi^{3)}$			$I_A/I_N$	$M_A/M_N$	$M_K/M_N$	IE-CL
[V]±10%		[Hz]±5%	[kW]	[hp]	[A]	[1/min]	[kgf.m]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4				
<b>Motordaten / Motor Data</b>																		
415	$\Delta$	50	132.00	-/-	210.00	2982	43.0	423.0	95.9	96.0	95.6	0.91	0.90	0.87	7.3	2.5	2.6	IE3
IM B3 / IM 1001			FS 315M		900 kg	SF:1	IS 12615 / IEC 60034-1											

Environmental conditions : -20 °C - +50 °C / 1,000 m

Locked rotor time (hot / cold) : 18 s | 30 s

## Mechanical data

Sound pressure level 50Hz   60Hz	84 dB(A)   89 dB(A)	External earthing terminal	Yes (standard)
Moment of inertia   Rotor GD <sup>2</sup>	1.7249 kg m <sup>2</sup>   6.8998 kgf.m <sup>2</sup>	Vibration severity grade	A (Standard)
Bearing DE   NDE	6316 C3   6316 C3	Insulation	155(F) utilized to 130(B)
<b>bearing lifetime</b>		Duty type	S1
L <sub>10mh</sub> F <sub>Rad,max</sub> according catalogue 50 60Hz <sup>1)</sup>	20.000 h   16.000 h	Direction of rotation	Bidirectional
L <sub>10mh</sub> F <sub>Rad,min</sub> for coupling operation 50 60Hz <sup>1)</sup>	50.000 h   40.000 h	Frame material	Cast iron
Type of bearing	Locating (fixed) bearing, NDE	Forced ventilation motor details	- / -
Relubrication interval/quantity DE   NDE	30 g   30 g 3.000 h	Net weight of the motor (IM B3)	900 kg
Type of construction	IM B3 / IM 1001	Rotor weight	209 kg
Degree of protection	IP55	Data of anti condensation heating	-/ V, -/ W
Lubricants	Esso Unirex N3	Coating (paint finish)	Standard paint finish
Regreasing device	Yes (standard)	Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A	Motor protection	(A) without
Condensate drainage holes	Yes	Method of cooling	IC411 - Self ventilated, surface cooled

## Terminal box

Terminal box position	Top	Cable diameter from ... to ...	38.0 mm - 45.0 mm
Material of terminal box	Cast iron	Cable entry	2xM63x1.5
Type of terminal box	TB1 Q01	Cable gland	2 Plugs
Contact screw thread	M12		
Max. cross-sectional area	185 mm <sup>2</sup>		




## 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

3) Value is valid only for DOL operation with motor design IC411

For VFD Operation, mandatorily parameterize the skip frequencies from 38Hz to 48Hz (both inclusive)

1) L10mh according to DIN ISO 281 10/2010

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>
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