

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

Data sheet for three-phase Squirrel-Cage-Motors

## Motor type / Motor type : 1CV4163A

## SIMOTICS SD - 160 M - IM B3 - 2p

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

### Safe Area

-/-

## Electrical data / Electrical data

U [V]	Δ/Y [Hz]	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η <sup>3)</sup> 4/4	η <sup>3)</sup> 3/4	η <sup>3)</sup> 2/4	cosp <sup>3)</sup> 4/4	cosp <sup>3)</sup> 3/4	cosp <sup>3)</sup> 2/4	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
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### DOL duty (S1) / DOL duty (S1) - 155(F) to 130(B)

400	Δ	50	15.00	-/-	26.00	2955	48.5	93.3	93.5	92.9	0.90	0.87	0.80	9.0	3.1	4.5	IE4
690	Y	50	15.00	-/-	14.90	2955	48.5	93.3	93.5	92.9	0.90	0.87	0.80	9.0	3.1	4.5	IE4
460	Δ	60	17.30	-/-	26.00	3555	46.5	93.0	93.0	92.1	0.90	0.88	0.81	8.8	3.0	4.3	IE4
460	Δ	60	15.00	-/-	23.00	3560	40.0	92.4	92.1	90.9	0.89	0.86	0.78	10.0	3.5	5.0	IE4
IM B3 / IM 1001		FS 160 M		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions / Environmental conditions : -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold) / Locked rotor time (hot / cold) : 24.9 s | 32.3 s

## Mechanical data / Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	74 / 87 dB(A) <sup>2)3)</sup>	79 / 92 dB(A) <sup>2)3)</sup>	External earthing terminal	Without
Sound level (SPL / SWL) at 50Hz 60Hz			External earthing terminal	Without
Moment of inertia	0.0680 kg m <sup>2</sup>	Vibration severity grade	A	A
Moment of inertia		Vibration severity grade		
Bearing DE   NDE	6309 Z C3	6309 Z C3	Thermal class	F
Bearing DE   NDE			Thermal class	F
<b>bearing lifetime / bearing lifetime</b>		Duty type	S1	
L <sub>10min</sub> , F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	40000 h	Direction of rotation	bidirectional	
L <sub>10min</sub> , F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	32000 h	Direction of rotation	bidirectional	
Relubrication interval/quantity DE   NDE	10 g   10 g	Frame material	cast iron	
Relubrication interval/quantity DE   NDE	8000 h	Frame material	cast iron	
Lubricants	Unirex N3	Net weight of the motor (IM B3)	130 kg	
Lubricants		Net weight of the motor (IM B3)		
Regreasing device	With (standard)	Coating (paint finish)	Special paint finish C3	
Regreasing device	With (standard)	Color, paint shade	Special paint finish C3	
Grease nipple	M8x1 DIN 71412	Color, paint shade	RAL7030	
Grease nipple		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)	
Type of bearing	Locating bearing NDE	Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)	
Type of bearing	Locating bearing NDE	Method of cooling	IC411 - self ventilated, surface cooled	
Condensate drainage holes	With (standard)	Method of cooling	IC411 - self ventilated, surface cooled	
Condensate drainage holes	With (standard)			

## Terminal box / Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm <sup>2</sup>
Terminal box position	top	Max. cross-sectional area	
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 mm
Material of terminal box	cast iron	Cable diameter from ... to ...	
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5-1xM16x1,5
Type of terminal box		Cable entry	
Contact screw thread	M5	Cable gland	3 plugs
Contact screw thread		Cable gland	3 plugs

## Notes:

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal

1) L<sub>10min</sub>, according to DIN ISO 2810/2010

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<sub>b</sub>/M<sub>N</sub> = break down torque / nominal torque

responsible dep. IN LVM	technical reference SPC	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	<a href="#">Link documents</a>
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