

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



**Motor type:** 1CV3280C **SIMOTICS GP/SD Standard - 280 S - IM B3 - 6p - 45 / 54.00 kW - IE3/IE2 - 50/60 Hz**

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]	$\eta^{1)}$			$\cos\phi^{1)}$			$I_A/I_N$	$M_A/M_N$	$M_K/M_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
400	$\Delta$	50	45.00	-/-	82.00	988	435.0	93.7	94.3	94.2	0.85	0.81	0.73	6.8	3.0	2.8	IE3
690	Y	50	45.00	-/-	47.50	988	435.0	93.7	94.3	94.2	0.85	0.81	0.73	6.8	3.0	2.8	IE3
460	$\Delta$	60	54.00	-/-	84.00	1186	435.0	93.6	94.1	93.9	0.86	0.84	0.76	6.7	2.7	2.6	IE2
460	$\Delta$	60	45.00	-/-	72.00	1190	360.0	94.5	94.6	94.1	0.83	0.78	0.68	7.7	3.3	3.1	IE3

IM B3 / IM 1001 FS 280 S 510 kg IP55 IEC/EN 60034 IEC, DIN, ISO, VDE, EN

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

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	(60.0 / 74.0) dB(A)   (66.0 / 80.0) dB(A)	External earthing terminal	Yes (standard) -/-
Moment of inertia	1.4000 kg m <sup>2</sup>	Vibration severity grade	A
Bearing DE   NDE	6317 C3   6317 C3	Insulation	155(F) to 130(B)
Lh10 bearing lifetime 50Hz 60Hz	20000 h   16000 h	Duty type	S1
Relubrication interval/quantity (AS BS)	30 g   30 g 8000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3	Frame material	cast iron
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	Cable diameter from ... to ...	34.0 mm - 42.0 mm
Material of terminal box	cast iron	Cable entry	2xM63x1,5
Type of terminal box	TB1 N01	Cable gland	2 plugs -/-
Contact screw thread	M10		
Max. cross-sectional area	120.0 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

1) Value is valid only for DOL operation with motor design IC411  
 2) at rated power / at full load

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