

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



**Motor type : 1CV2082C**

**INNOMOTICS SD - 80 M - IM B3 - 6p**

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]	$\eta^{(3)}$			$\cos\phi^{(3)}$			$I_A/I_N$	$M_A/M_N$	$M_R/M_N$	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	0.37	-/-	1.99	925	3.8	67.6	67.9	64.4	0.69	0.60	0.47	4.0	2.1	2.4	IE2
400	Y	50	0.37	-/-	1.14	925	3.8	67.6	67.9	64.4	0.69	0.60	0.47	4.0	2.1	2.4	IE2
460	Y	60	0.43	-/-	1.22	1125	3.6	64.0	64.1	61.3	0.69	0.60	0.48	4.2	2.1	2.6	IE2
460	Y	60	0.37	-/-	1.15	1140	3.1	64.0	63.0	59.1	0.63	0.54	0.42	4.6	2.3	2.9	IE2
IM B3 / IM 1001		FS 80 M		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 18.90 s   31.60 s								

**Mechanical data**

Sound level (SPL / SWL) at 50Hz 60Hz	42.0 / 53.0 dB(A) <small>2) 3)</small>	45.0 / 56.0 dB(A) <small>2) 3)</small>	Vibration severity grade	A
Moment of inertia	0.0017 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6204 2Z C3	6204 2Z C3	Duty type	S1
<b>Bearing lifetime</b>			Direction of rotation	bidirectional
$L_{10mh}$ $F_{Rad min}$ for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	16 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 1 PTC thermistor - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	41kg

**Terminal box**

Terminal box position	top	Main cable entry	1xM25x1.5
Material of terminal box	cast iron	Main cable gland	1 plug
Type of terminal box	TB1 D01	Auxiliary cable entry	1xM16x1.5
Contact screw thread	6xM4	Auxiliary cable gland	1 plug
Max. cross-sectional area	2.5 mm <sup>2</sup>		

$I_A/I_N$  = locked rotor current / current nominal  
 $M_R/M_N$  = locked rotor torque / torque nominal  
 $M_V/M_N$  = 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

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