

Data sheet for three-phase Squirrel-Cage-Motors INNOMOTICS



Motor type : 1CV4280A

INNOMOTICS SD - 280 S - IM B3 - 2p

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

Remarks

Safe Area

Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cos φ ³⁾			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					
DOL duty (S1) - 180(H) to 130(B)																		
400	Δ	50	75.00	-/-	126.00	2978	240.0	95.6	95.8	95.6	0.90	0.88	0.83	8.5	2.8	3.2	IE4	
690	Y	50	75.00	-/-	73.00	2978	240.0	95.6	95.8	95.6	0.90	0.88	0.83	8.5	2.8	3.2	IE4	
460	Δ	60	75.00	-/-	110.00	3582	200.0	95.0	94.8	94.0	0.90	0.88	0.82	9.5	3.2	3.5	IE4	
460	Δ	60	84.00	-/-	123.00	3580	225.0	95.4	95.4	94.8	0.90	0.90	0.85	8.5	2.9	3.1	IE4	
IM B3 / IM1001			FS 280 S			IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - + °C / 1000 m										Locked rotor time (hot / cold) : 34.1 s 52.9 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 87 dB(A) ^{2) 3)}	76 / 90 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	0.7970 kg m ²		Vibration severity grade	Grade A	
Bearing DE NDE	6315 C3 S0	6315 C3 S0	Thermal class	H	
permissible lateral force on (N) (N)	X ₀ : 5300	X _{0.5} : 4750	X _{max} : 4200	Duty type	S1
bearing lifetime	Direction of rotation			bidirectional	
L _{10mh} F _{Rad} min for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron	
Lubricants	Net weight of the motor			556 kg	
Regreasing device	Flat type lubricating nipple		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	3 PTC thermistors - for tripping (2 terminals)	
Condensate drainage holes	(Standard) Yes		Method of cooling	IC411 - self ventilated, surface cooled	

Terminal box

Terminal box position	box at the top	Max. cross-sectional area	120 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB4N01	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM10	Cable gland	-/-

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) L_{10mh} 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

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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Special design

N11 Temperature class 180(H), and coolant temperature max. 60°C

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