

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



Motor type : 1CV4280B

INNOMOTICS SD - 280 S - IM B3 - 4p

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

Remarks

Safe Area

Electrical data -/-

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	75.00	-/-	130.00	1490	480.0	96.0	96.2	96.0	0.87	0.84	0.76	8.5	2.8	3.4	IE4
690	Y	50	75.00	-/-	75.00	1490	480.0	96.0	96.2	96.0	0.87	0.84	0.76	8.5	2.8	3.4	IE4
460	Δ	60	75.00	-/-	114.00	1792	400.0	96.2	96.2	95.7	0.86	0.82	0.74	10.0	3.2	3.8	IE4
460	Δ	60	86.00	-/-	129.00	1790	460.0	96.2	96.4	96.1	0.87	0.85	0.78	8.9	2.8	3.3	IE4
IM B3 / IM1001			FS 280 S				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 32.7 s 46 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	64 / 78 dB(A) ^{2) 3)}	67 / 82 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes
Moment of inertia	1.7400 kg m ²		External earthing terminal	(Standard) Yes
Bearing DE NDE	6316 C3 S0	6316 C3 S0	Vibration severity grade	Grade A
permissible lateral force on (N)	X ₀ : 8600	X _{0.5} : 7900	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad, min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	30 g 30 g 8000 h		Frame material	cast iron
Lubricants	UNIREX N3		Net weight of the motor	610 kg
Regreasing device	Flat type lubricating nipple		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL1015
Type of bearing	Locating bearing DE		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled


Terminal box

Terminal box position	box at the top	Max. cross-sectional area	150 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB4Q01	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	-/-

I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_B/M_N = break down torque / nominal torque

1) L_{10mh} according to DIN ISO 281 10/2010
2) at rated power I 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	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	S02	Special paint finish C3
B07	Supplementary plate, voltage tolerance	Y53	Paint finish in other standard RAL colours RAL1015
H07	Stainless steel screws and bolts (outside the motor)	Y82	Auxiliary name plate with customer data . GP1.21 GP1.22 . GP1.21
L51	Bearing insulation NDE		
R50	Larger terminal box		

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