

Data sheet for three-phase Squirrel-Cage-Motors



Motor type : 1CV1315B

1TZ9 C - 315 L - IM B35 - 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⁾			$\cos \phi$ 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 155(F)

575	Δ	50	200.00	-/-	245.00	1486	1290.0	94.0	94.2	94.0	0.87	0.85	0.79	6.9	2.5	2.7	IE1
1000	Y	50	200.00	-/-	141.00	1486	1290.0	94.0	94.2	94.0	0.87	0.85	0.79	6.9	2.5	2.7	IE1

IM B35 / IM 2001		FS 315 L		IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN										
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Environmental conditions : -20 ° C - +55 ° C / 1000 m

Locked rotor time (hot / cold) : 0 s | 41.5 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76 / 91 dB(A) ^{2) 3)}	75 / 90 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	3.5000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6319 C3	6319 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	40 g 40 g 3000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	1140 kg
Regreasing device	With regreasing nipple		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 71412 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	150 mm ²
Material of terminal box	cast iron	Main cable gland	- / -
Type of terminal box	TB1 Q61		
Contact screw thread	6xM12		

I_L/I_N = locked rotor current / current nominal
M_L/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	Technical reference	Created by	Approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>			
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Special design

D23	Motor exclusively for use in transportation equipment for passengers and freight transport corresponding to EVPG § 1 from February 27, 2008	Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings
L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A	Q02	Anti-condensation heating for 230 V (2 terminals)
M11	Stainless steel rating plate	R11	Terminal box rotated through 90° , cable entry from NDE
M1Y	Non-standard winding: 575VD_50Hz_200kW	R53	Undrilled removable cable entry plate
N03	Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 109W

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