

Data sheet for three-phase Squirrel-Cage-Motors



Motor type : 1CV1315B

1T29 C - 315 L - IM B35 - 4p

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

Remarks

Electrical data Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	4/4	η ³⁾ 3/4	2/4	4/4	cosφ ³⁾ 3/4	2/4	I _A /I _N I _I /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL	
DOL duty (S6) - 155(F) to 155(F)																		
690	Δ	60	355	-/-	364	1775	1910							4.3	1.6	1.6	IE1	
IM B35 / IM 2001			FS 315 L				IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +45 °C / 1000 m										Locked rotor time (hot / cold) : 0.00 s 41.50 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76.0 / 91.0 dB(A) ²⁾ ₃₎	75.0 / 90.0 dB(A) ²⁾ ₃₎	External earthing terminal	With
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	S6-40%
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	40.0 g 40.0 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		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Contact screw thread	6xM12
Material of terminal box	cast iron	Max. cross-sectional area	150.0 mm ²
Type of terminal box	TB1 Q61		

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 28110/2010
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	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
LÖNNE	Document type			Document status			
	Technical data sheet			Released			
	Document title			Document number			
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				AA	2026-06-24	en	1/2

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1TZ9 C - 315 L - IM B35 - 4p

Special design

D23	Motor exclusively for use in transportation equipment for passengers and freight transport corresponding to EVPG § 1 from February 27, 2008	Q02	Anti-condensation heating for 230 V (2 terminals)
L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A	R12	Terminal box rotated through 180°
M11	Stainless steel rating plate	R53	Undrilled removable cable entry plate
M1Y	Non-standard winding: 690VD_60HZ_230KW	Y52	Temperature class 155(F), utilized acc. to 155(F), customer indication of coolant temperature and/or installation altitude 1000M_KT45°C_230KW
Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings		

Implicit options

H03	Condensation drain holes in end shield	L25	Double sides reinforced bearings for DE and NDE, Type 63
H04	External grounding at housing		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 109W

I_L/I_N = locked rotor current / current nominal
 M_L/M_N = locked rotor torque / torque nominal
 M_L/M_N = break down torque / nominal torque

1) L_{10min} according to DIN ISO 28110/2010
 2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

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