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Purchase Order Title:	CENTRIFUGAL PUMPS
Suppliers Name:	

Document Description:	MOTOR DATA SHEET
Equipment:	HEATING MEDIUM CIRCULATION PUMP

ABB Motors and
Generators

Technical Data Sheet - DOL



Project		Location	
Department/Author	Customer name	Customer ref.	Item name
Our ref.	Rev/Changed by	Date of issue	Saving ident
			Pages z of 3

No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, sqr/irre/ cage induction motor		
2	Product code	3GGP 312 230-BDG		
3	Type/Frame	M3GP 315SMC 4		
4	Mounting	IM3011, V1(flange)		
5	Rated output PN	132	kW	
6	Service factor	Y		
7	Type of duty	51(iec) 100%		
8	Rated voltage UN	400	VD	+ 5 % (IEC 60034-1)
9	Rated frequency !N	60	Hz	+ 2 % (IEC 60034-1)
10	Rated speed nN	1775	r/min	
11	Rated current !N	230	A	
12	No-load current	61,3	A	
13	Starting current I _s / !	6,1		n 7 without positive foierances
14	Nominal torque TN	706	Nm	
15	Locked rotor torque T *TN	1,9		
16	Maximum torque T _m /T N	2,5		
17	Minimum torque T _{min} /T N	1,7		
18	Speed at minimum torque	1440	r/min	
Load characteristics (IEC 60034-2-1 :2014)		Load %	Current A	Efficiency %
19	PLL determined from residual loss	100	230	95,1 / IE2
20		75	175	95,1
21		50	125	94,4
22		Start	1403	0,28
23	Maximum starting time from hot	25	S	
24	Maximum starting time from cold	46	S	
25	Insulation class / Temperature class	F/ B		
26	Ambient temperature	45	°C	
27	Altitude	1000	m.a.s.l.	
28	Enclosure	IP56		
29	Cooling system	IC411 se/lventi/atecf		
30	Bearing DE/NDE	6319/C3 - 7316 BECBM and 7313 BECBM		
31	Type of Grease	grease nipples		
32	Sound pressure level (LP dB(A) 1m)	T4+3	dB(A)	at no load
33	Moment of inertia J = ' GD2	2,9	kg-m2	
34	Balancing	hall'key		
35	Vibration class	class A acc. to IEC 60034-14		
36	Position of terminal box	Top		
37	Terminal box entries; no, dimens.	2 x M63 x 1.5		
38	Number of power terminals	6		
39	Direction of rotation	CW or CCW		
40	Weight of rotor	235	kg	
41	Total weight of motor	1000	kg	
42	Anti-condensation Heater			(Yes/No)
43	Winding Temperature detectors			(Yes/No)
44	Running up (starting) times (at 100% & 30% of Un)			
45				

Ex-motors

46	Type of protection	Ex ec IIC T3 Gc
47	EC Type Examination No	DEMKO 18 ATEX 2076 X
48		

Option Variant Codes / Definition

Option	Bearing type	Grease quantity	Lubricant intervals (40°C, L10 principle)
49	6319/C3	55g	950h
51	7316 BECBM	40g	950h
52	7313 BECBM	23g	950h

Remarks:

All data subject to tolerances in accordance with IEC