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Date (d/m/y): 9/Jun/2011
Customer:
Motor: GM355L6
Serial No.: SX201106012

Type-Test Report: Asynchronous Motor

Name-Plate Data							
IE2	Duty	S1		△			IEC 60034-2-1
η% 95,0	f [Hz]	50	UN [V]	400		cos φ	0,88
	nN[min-1]	990	IN [A]	432		PN [kW]	250
	IP	55	IS.Class	F		Net [kg]	1734

Phase-Resistance at 25,9°C	0,00664 [Ω]	0,00665 [Ω]	0,00663 [Ω]

TEMPERATURE-RISE TEST												
Conn.	U [V]	f [Hz]	IN ass IN abs [A]	PN ress PN out [kW]	Lasting [h]	Terminals	Winding θ Initial [℃]	Wind.Res. Initial [Ω]	Amb.θ Final [℃]	Frame θ Final [℃]	Wind.Res. Final [Ω]	Temperature Rise Δ θ [K]
△	400	50	428,33	250	6		25,9	0,00664	27,2	69,2	0,00866	77,9

LOAD TEST												
Conn.	Load	U [V]	f [Hz]	n [min-1]	S %	[A]	input [kW]	TN [Nm]	out [kW]	η %	cos φ	Notes
△	25%	400	50	998,0	0,20	148,73	70,067	598,07	62,50	89,20	0,68	
△	50%	400	50	996,0	0,40	242,29	132,781	1198,54	125,00	94,14	0,79	
△	75%	400	50	994,0	0,60	332,21	196,788	1801,43	187,50	95,28	0,86	
△	**100%**	**400**	**50**	**992,0**	**0,80**	**428,33**	**262,329**	**2406,75**	250,00	**95,30**	**0,88**	
△	125%	400	50	990,0	1,00	534,57	329,989	3014,52	312,50	94,70	0,89	

BREAKDOWN TORQUE TEST									
Conn.	U [V]	f [Hz]	[A]	n [min-1]	TN [Nm]	P ress out [kW]	P ass, abs [kW]	η %	cos φ
△	400	50			7773,82				

LOCKED ROTOR TEST							RATIO		
Conn.	U [V]	f [Hz]	T1 [Nm]	II sss, abs. [A]	P ass, abs [kW]	cos φ	II / IN	TI / TN	TI / TN
△	400	50	7196,2	3083,9			7,2	2,99	

DIELECTRIC TEST		
Between Windings and the Frame		
Test N°	U[V]	[a]
	1800	0.02A

NO-LOAD TEST									INSUL. RES.		
Conn.	U [V]	f [Hz]	nN [min-1]	IIsss,abs. [A]	Pass,abs [kW]	cos φ	LWA [dB(A)] No Load	LWA [dB(A)] Load	amb. T [℃]	U [V]	[MΩ]
△	400	50		135,3	5,952		90		25	1000	500

Machine loss:	1911,50 W	Core loss:	3834,64 W
Degrees of unbalance in a three phase system (current):	0,95 %	Vibration :	0,95 mm/s

BEARING: DE-6322 C3 (vertical) or NU 322 E (horizontal) / NDE-6322 C3 NOTE: No oil seal&open bearing

Ref.: MANUFACTUR.

Signature: