

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

Motor type: GP100 FS: 254T - 4p - 15 hp -

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

Electrical data

without

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque	T _A /T _N	T _k /T _N
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4	[lb-ft]	LRT [%]	BDT [%]	
460	Y	60	15.00	11.00	1,770	19.00	15.20	11.80	8.50	116.0	92.4	92.8	92.3	80.0	74.7	64.5	44.0	184	234	
230	YY	60	15.00	11.00	1,770	38.00	30.39	23.59	17.00	232.0	92.4	92.8	92.3	80.0	74.7	64.5	44.0	184	234	
400	Y	50	10.00		1,479	16.27	14.01	12.21	10.49	114.0	90.4	89.8	88.0	71.6	62.7	49.0	35.5	260	370	
200	YY	50	10.00		1,479	32.54	28.02	24.42	20.98	228.0	90.4	89.8	88.0	71.6	62.7	49.0	35.5	260	370	
Frame Type: 254T			Type of constr.: (A) Foot mounted - End shield										Motor Prot.:(A) Without Protection			NEMA Des.: B		S.F.: 1.15		
Mtr. WT:242 lbs			Insulation Class.:Standard Class F Insulation							Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m			kVA: G		IP 55			

Mechanical data

Sound level (SPL / SWL) at 60 Hz				61.0 dB(A) / 73.0 dB(A)				Thickener				Polyurea													
Octave Band Center Frequencies Hertz								Safe Stall Time Hot								21 s									
250				500		1000		2000		4000		8000		Hz		Safe Stall Time Cold				33 s					
SPL@3				47.0		53.0		59.0		56.0		47.0		38.0		dB(A)		Frame material				cast iron			
Moment of inertia								1.7 Lb-ft²								Color, paint shade				Standard Paint - RAL7030					
Ext Load Inertia Capability:								75.0 Lb ft²								Coating (paint finish)				Standard Alkyed + Epoxy (C2)					
Bearings								Ventilation Type																	
Bearing DE NDE				6209 ZZ C3 S0				6209 ZZ C3 S0				Method of cooling				TEFC									
Bearing_Type				Ball Bearing				Ball Bearing				Direction of rotation				Bidirectional									
AFBMA:				45BC02JPP30				45BC02JPP30				Fan Material				Polypropylen									
Grease								VFD								CT: 4:1 VT: 20:1									
Capacity				0.5 oz				0.5 oz				Space heaters				without									
Grease Type:								Exxon Mobile EM								Brake:				without					

Terminal box

Lead Wire Connection					9 LEAD - WYE	Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L2	L3	Connected together		Material of terminal box	Aluminium
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6		Cable entry	1.25" NPT
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9			

Notes:

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

3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

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