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

Motor type: **FS: 256T - 4p - 20 hp -**

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

Electrical data

Class I, Div 1 Gr. C&D; Class II, Div1, Gr. F&G, T3C

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps] 4/4	3/4	1/2	0	LRC	Nom. Eff Load [%] 4/4	3/4	2/4	Pwr. Factor Load [%] 4/4	3/4	2/4	Torque [lb-ft]	T_A/T_N LRT [%]	T_k/T_N BDT [%]
460	Y	60	20.00		1,770	25.00	19.80	15.40	10.50	145.0	93.0	93.4	93.1	80.5	75.9	65.3	60.0	183	240
230	Y Y	60	20.00		1,770	50.00	39.62	30.80	21.00	290.0	93.0	93.4	93.1	80.5	75.9	65.3	60.0	183	240
400	Y	50	15.00		1,475	21.30	18.60	15.50	12.60	168.5	91.5	91.3	90.3	81.4	70.2	5.7	53.4	299	348
200	Y Y	50	15.00		1,475	42.60	37.20	31.00	25.20	337.0	91.5	91.3	90.3	81.4	70.2	5.7	53.4	299	348

Frame Type: 256T	Type of constr.: (A) Foot mounted - End shield		Motor Prot.:(G) Thermostats, Klixon type, normally closed	NEMA Des.: B	S.F.: 1.15
Mtr. WT:345 lbs	Insulation Class.:Insulation class F	Temp. Rise Cl.: B	Amb. Temp.: + 55 to -20 °C @1000 m	kVA: G	IP IP65

Mechanical data

Sound level (SPL / SWL) at 60 Hz	61.0 dB(A) / 73.0 dB(A)

Octave Band Center Frequencies Hertz	250	500	1000	2000	4000	8000	Hz
SPL@3	47.0	53.0	59.0	56.0	47.0	38.0	dB(A)

Moment of inertia	2.1 Lb-ft²
Ext Load Inertia Capability:	99.0 Lb ft²

Bearings

Bearing DE | NDE	6309 Z C3 S0	6309 Z C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	45BC03JP30	45BC03JP30

Grease

Capacity	0.5 oz	0.5 oz
Grease Type:	Exxon Mobile EM	

Thickener	Polyurea
Safe Stall Time Hot	15 s
Safe Stall Time Cold	33 s
Frame material	cast iron
Color, paint shade	
Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Ventilation Type	
Method of cooling	TEFC
Direction of rotation	Bidirectional
Fan Material	Polypropylen ESD
VFD	CT: 4:1 VT: 20:1
Space heaters	without
Brake:	-/-

Terminal box

Lead Wire Connection	9 LEAD - WYE			
Voltage	L1	L2	L3	Connected together
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9

Terminal box position	(3) Mounting - F-1
Material of terminal box	Cast Iron
Cable entry	-/-

Notes:

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

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

responsible dep.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values*

SIEMENS

document type	document status	customer
datasheet	released	
title	**document number**	
1MB2121-2BB21-4AG3		

rev.	creation date	language	Page
01	2023-01-24 13:16	en	1/1