DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line			Base NEMA I y Three-Phas		n F	Product	code :	13017	464	
Frame Insulation class Duty cycle Ambient temperature Altitude		: 404/5HP : F : Cont.(S1) : -20°C to +40°C : 100°C		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)			: IC411 - TEFC : W-6 : Both (CW and CCW) : Direct On Line : 511 kg : 0.5561 kgm²			
Protection degree Design	e	: IP55 : B			Moment	of inertia	a (J)	: 0.55	oʻi kgm	-
Output [HP]		100		75			75		75	
Poles		2		2			2			2
Frequency [Hz]		60 230/460		50 380			50 400			50 415
Rated voltage [V]		230/460		99.6			94.6		92.2	
Rated current [A]		1456/728		677			719		756	
L. R. Amperes [A]		6.5x(Code G)		6.8x(Code G)			7.6x(Code H)		8.2x(Code J)	
LRC [A] No load current [A]		52.0/26.0		25.7		,	27.5		29.1	
Rated speed [RPM]		3545		2955			2960			2965
Slip [%]		1.53		1.50			1.33		1.17	
Rated torque [kgfm]		20.5		18.4			18.4		18.4	
Locked rotor torque [%]		20.3		250			280		300	
Breakdown torque [%]		240		280			310		330	
Service factor		1.25		1.00			1.00		1.00	
Temperature rise		80 K			80 K		80 K		80 K	
Locked rotor time		25s (cold) 14s (hot)		18s (c	18s (cold) 10s (hot)		18s (cold) 10s (hot)		18s (cold) 10s (hot
Noise level ²		79.0 dB(A)			74.0 dB(A)		74.0 d		74.0 dB(A)	
	25%									
Efficiency (%)	50%	93.0		93.0			93.1			93.5
	75%	ę	94.1	93.8			93.8			94.0
	100%	ę	94.1	94.3			94.3			94.3
Power Factor	25%									
	50%	0.83		0.82			0.80			0.78
	75%	0.88		0.88			0.86			0.85
	100%	0.89		0.89			0.89		0.88	
Losses at normat	ive operating	points (sp	eed;torque), i	n percer	ntage of rat	ted outp	ut power			
		P1 (0,9;1,0) 5.9		· ·	5.9		5.9			5.9
	P2 (0	,5;1,0)	4.6		4.6		4.6			4.6
	P3 (0,	25;1,0)	4.4		4.4		4.4		4.4	
Losses (%)		,9;0,5)	2.8		2.8		2.8		2.8	
	P5 (0	,5;0,5)	1.6		1.6		1.6		1.6	
		5;0,25)	0.9		0.			0.9	0.9	
	P7 (0,2	25;0,25)			0.5			0.5		0.5
Bearing type Sealing Lubrication interval Lubricant amount		Drive end Non drive en : 6316 C3 6314 C3 : Lip Seal Lip Seal : 2000 h 3000 h : 34 g 27 g			Foundation loads Max. traction Max. compression					
Lubricant type This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	d. otor from the m and with t veight subjec	cel the pre shaft end.	f +3dB(A).							a sinusoidal Ited in NEMA
Rev.		Chang	es Summary		Performed		ormed	Checked		Date
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Notes USABLE @208V 243A SF 1.10 SFA 268A

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	30/10/2024			2/6	

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