DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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Product line		: W22 N Three-P	EMA Premiun hase	n Efficie	ncy Pr	ode : 12	12710800		
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 143/5TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B			Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: F : B : D : 2	: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 22.0 kg : 0.0049 kgm ²	
Output [HP]			1		1		1		1
Poles		4			4		4		4
Frequency [Hz]		60		50			50		50
Rated voltage [V]		230/460		380			400		415
Rated current [A]		2.94/1.47			1.71		1.65		1.63
L. R. Amperes [A]		25.3/12.6		10.9			11.5		12.1
LRC [A]		8.6x(Code M)		6.4x(Code J)			7.0x(Code K)		7.4x(Code K)
No load current [A]		1.88/0.940		0.930			1.00		1.08
Rated speed [RPM]		1760		1450			1455		1455
Slip [%]		2.22		3.33			3.00		3.00
Rated torque [kgfm]		0.412			0.501		0.499		0.499
Locked rotor torque [%]		290			220		240		260
Breakdown torque [%]		350			250		290		310
Service factor		1.25 80 K		<u> </u>	1.25 80 K		1.25		1.25 80 K
Temperature rise				220 /2	80 K cold) 18s (ho	(t) 20	80 K		80 K s (cold) 18s (hot
Locked rotor time Noise level ²		32s (cold) 18s (hot) 51.0 dB(A)			9.0 dB(A)	<i>n</i>) 32	s (cold) 18s (hot 49.0 dB(A)	ij 328	49.0 dB(A)
	25%	51.0		4	5.0 UD(A)		+9.0 UD(A)		-10.0 UD(A)
Efficiency (%)	50%	80.0			80.0		80.0		80.0
	75%	84.0			82.5		82.5		82.5
	100%		35.5		82.5		84.0		84.0
	25%								
	50%	0.55			0.62		0.58		0.55
Power Factor	75%	0.68			0.74		0.71		0.69
	100%	(0.75		0.81		0.78		0.76
Losses at normati	ve operating	nointe (en	eed:torque) ii	n nercer	ntage of rate	d output	nower		
Losses at normal		points (speed;torque), ii ,9;1,0) 15.9			15.9		15.9		15.9
P2		(,5;1,0) 12.8			12.8		12.8		12.8
		25;1,0) 12.0			12.5		12.5		12.5
Losses (%)		,9;0,5)	10.1				10.1		10.1
200000 (70)		,5;0,5)	7.0		10.1 7.0		7.0		7.0
		,0,0,0) 5;0,25)	5.8		5.8		5.8		5.8
		25;0,25)	4.3		4.3				4.3
17 (0,2		Drive		ive end			4.3		
Bearing type		: 6205)4 ZZ	Max. traction		. 22	: 33 kgf	
Sealing		: V'R		Ring	Max. compression			: 55 kgf	
Lubrication interv	al	· · · · ·		-			. 55	, ital	
Lubricant amount		: -		-					
Lubricant type		: M	lobil Polyrex E	EM					
This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate w	d. otor from the m and with t /eight subjec	e shaft end. olerance o	f +3dB(A).	nich			values based of ect to the toleran		
manufacturing pro	Changes Summary				Derferment		lead D-t-		
Rev.		Chang	jes Summary			Perforr	nea Che	cked	Date
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Notes USABLE @208V 3.07A SF 1.15 SFA 3.54A

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/07/2025			2/6	

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