DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line			EE 841 NEM y Three-Phas		um	Product	code :	12373	794	
Frame Insulation class		: 182/4TC : F		Cooling method Mounting				: IC411 - TEFC : F-1		
Duty cycle		: Cont.(S1)			Rotation			: Both (CW and CCW)		
Ambient tempera	ture	: -20°C to +40°C			Starting method			: Direct On Line		
Altitude		: 1000 m.a.s.l.		Approx. weight ³				: 46.6 kg		
Protection degree	Э	: IP56			Moment of inertia (J)		a (J)	: 0.0143 kgm²		
Design		: B								
Output [HP]		3		3			3		3	
Poles		4		4			4		4	
Frequency [Hz]		60		50			50			50
Rated voltage [V]		460		380			400		415	
Rated current [A]		3.91		4.78			4.54		4.43	
L. R. Amperes [A]		31.7		30.1		<u> </u>	32.2		33.7	
LRC [A]		8.1x(Code K)		6.3x(Code H))	7.1x(Code J)		7.6x(Code K)	
No load current [A]		2.00		2.00			2.10		2.25	
Rated speed [RPM	1]	1760		1445			1450			1455
Slip [%]	_	2.22		3.67			3.33			3.00
Rated torque [kgfm		1.24		1.51			1.50		1.50	
_ocked rotor torqu		220		220			220		240	
Breakdown torque	[%]	330			250		290		320	
Service factor		1.25			1.25		1.25		1.25	
Temperature rise		80 K			80 K		80 K		80 K	
Locked rotor time		41s (cold) 23s (hot)		32s (d	32s (cold) 18s (hot)		32s (cold) 18s (hot)		32s (d	cold) 18s (hot)
Noise level ²		56.0) dB(A)	5	6.0 dB(A)		56.0 dE	B(A)	5	6.0 dB(A)
Efficiency (%)	25%									
	50%	87.5		87.5			87.5			87.5
	75%		38.5		87.5		87.5			87.5
	100%	89.5			87.5		87.5			87.5
Power Factor	25%									
	50%	0.61		0.68			0.64			0.61
	75%	0.71		0.77			0.75			0.73
	100%	0.79		0.80			0.80		0.79	
Losses at normati	ve operating	points (sp	eed;torque), i	n percei	ntage of ra	ted outp	ut power			
		P1 (0,9;1,0) 11				-	13.4		13.4	
	P2 (0,		8.9		10.8		10.8		10.8	
	P3 (0,2		8.8		10.7		10.7		10.7	
Losses (%)	P4 (0,		6.1		7.4		7.4		7.4	
(///	P5 (0,		4.0		4.9		4.9		4.9	
		5;0,25)	3.0		3.6			3.6	3.6	
	P7 (0,2				2.6			2.6	_	2.6
	11 (0,2	Drive		ive end				2.0		2.0
Boaring type								. 77 kaf		
Bearing type Sealing		: 6207 C3 6206 C3 : Inpro/Seal Inpro/Seal			Max. traction Max. compression			: 77 kgf		
								: 123 k	gr	
Lubrication interval		: 20000 h 20000 h								
Lubricant amount Lubricant type		: 7 g 5 g : Mobil Polyrex EM								
		· · · ·			ļ					
This revision repla must be eliminate (1) Looking the m (2) Measured at 1	d. otor from the	shaft end.		nich						sinusoidal ted in NEMA
(3) Approximate w manufacturing pro	/eight subjec									
παιταιασιατίτη μις		s. Changes Summary			Performed		ormed	Checked		Date
Rev.			-							
							1			
Rev.								Page		Revision

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Notes

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/10/2024	-		2/6	

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