

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12430784

Area classification : ZONA 1, GRUPO IIB, T4 (135 °C)

Catalog # : E03012XT3YAX225SMF3W

Frame	: 225S/M	Locked rotor time	: 39s (cold) 22s (hot)
Output	: 30 kW (40 HP)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380/660 V	Altitude	: 1000 m.a.s.l.
Rated current	: 57.7/33.2 A	Protection degree	: IP56
L. R. Amperes	: 375/216 A	Cooling method	: IC411 - TEFC
LRC	: 6.5	Mounting	: B3T
No load current	: 19.5/11.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 980 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 2.00 %	Starting method	: Direct On Line
Rated torque	: 215 ft.lb	Approx. weight ³	: 1185 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 19.4 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	93.5	93.1	93.3	93.0	93.3	93.4	92.9	93.1	Max. traction	: 1176 lb
	93.0	92.1	92.8	92.7	93.4	93.6	93.0	94.1		
Power Factor	0.47	0.43	0.71	0.67	0.80	0.78	0.85	0.83	Max. compression	: 2361 lb
	0.40	0.41	0.64	0.65	0.75	0.76	0.82	0.82		

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	7.5	7.2	7.3	6.1
	P2 (0,5;1,0)	6.4	6.3	6.4	5.3
	P3 (0,25;1,0)	5.9	5.8	5.9	4.9
	P4 (0,9;0,5)	3.2	3.1	3.1	2.6
	P5 (0,5;0,5)	2.2	2.2	2.2	1.8
	P6 (0,5;0,25)	1.3	1.3	1.3	1.1
	P7 (0,25;0,25)	0.9	0.9	0.9	0.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	Viton Oil Seal	Viton Oil Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
 INERIS 17ATEX0001X
 CML 21UKEX1314X
 II 2G Ex db IIB T4 Gb
 EAC
 EAЭC RU C-BR.AA87.B.00379/20
 1Ex db IIB T4 Gb X
 ООО «НАННО ЦСВЭ»
 IECEX
 IECEX INE 16.0060X
 Ex db IIB T4 Gb

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 3		
Checked by				
Date	27/03/2024			
			Revision	

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Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 3	Revision
Checked by					
Date	27/03/2024				

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	150 °C

Space heater information

Voltage: 200 - 240 V

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Performed by		Page 3 / 3		Revision
Checked by				
Date	27/03/2024			