

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12383855

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

Catalog # : E02212XT3YAX200LF3-W

Frame	: 200M/L	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 22 kW (30 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	: 43.2/24.9 A	Protection degree	: IP56
L. R. Amperes	: 276/159 A	Cooling method	: IC411 - TEFC
LRC	: 6.4	Mounting	: B3T
No load current	: 18.2/10.5 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 980 rpm	Noise level ²	: 60.0 dB(A)
Slip	: 2.00 %	Starting method	: Direct On Line
Rated torque	: 158 ft.lb	Approx. weight ³	: 727 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 10.0 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	91.8	90.9	92.0	91.4	92.2	92.0	92.2	92.4	Max. traction	: 1186 lb
	90.2	90.8	90.8	91.4	91.8	92.5	92.2	93.0		
Power Factor	0.43	0.39	0.69	0.64	0.79	0.76	0.84	0.81	Max. compression	: 1922 lb
	0.35	0.37	0.60	0.62	0.72	0.74	0.79	0.80		

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

Losses (%)	P1 (0,9;1,0)	8.3	8.1	8.3	7.4
	P2 (0,5;1,0)	7.3	7.1	7.3	6.5
	P3 (0,25;1,0)	6.9	6.7	6.9	6.1
	P4 (0,9;0,5)	3.8	3.7	3.8	3.3
	P5 (0,5;0,5)	2.8	2.7	2.8	2.5
	P6 (0,5;0,25)	1.8	1.7	1.8	1.6
	P7 (0,25;0,25)	1.3	1.2	1.3	1.1

		Drive end	Non drive end
Bearing type	:	6312 C3	6212 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
 INERIS 22ATEX0025X
 CML 23UKEX1256X
 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 22.0044X
 Ex db IIB T4 Gb

Rev.	Changes Summary	Performed	Checked	Date
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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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