

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 14351826

Area classification : ZONA 2/22, GRUPO IIC/IIIB, T3(200 °C)/
T125 °C

Catalog # : E02212EP3YAX200LF3-W

Frame : 200L
Output : 22 kW (30 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 44.3/25.5 A
L. R. Amperes : 235/135 A
LRC : 5.3
No load current : 19.0/10.9 A
Rated speed : 975 rpm
Slip : 2.50 %
Rated torque : 159 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 9.58 sq.ft.lb
Design : N

Locked rotor time : 25s (cold) 14s (hot)
Temperature rise : 80 K
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : B3T
Rotation¹ : Both (CW and CCW)
Noise level² : 60.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 496 lb

Output	25%		50%		75%		100%	
Efficiency (%)	90.3	89.8	90.5	90.0	90.9	90.9	90.9	90.9
	88.3	89.4	89.0	89.7	90.4	91.7	90.9	91.7
Power Factor	0.42	0.37	0.68	0.63	0.78	0.74	0.83	0.80
	0.34	0.35	0.59	0.60	0.71	0.73	0.78	0.79

Foundation loads
Max. traction : 1306 lb
Max. compression : 1802 lb

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

Losses (%)	P1 (0,9;1,0)	9.7	9.7	9.7	8.8
	P2 (0,5;1,0)	8.2	8.2	8.2	7.4
	P3 (0,25;1,0)	7.5	7.5	7.5	6.8
	P4 (0,9;0,5)	4.8	4.8	4.8	4.4
	P5 (0,5;0,5)	3.3	3.3	3.3	3.0
	P6 (0,5;0,25)	2.3	2.3	2.3	2.1
	P7 (0,25;0,25)	1.6	1.6	1.6	1.4

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

EAC
TC RU C-BR.AA87.B.00977/22
2Ex ec IIC T3 Gc X
Ex tc IIIB T125°C Dc X
ООО «НАИО ЛСБЭ»
IECEX
IECEX BAS 10.0099X
Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

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

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Customer :

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	140 °C
2	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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