

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 12384128
Catalog # : E01136EP3YAX160MF3-W

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

Frame : 160M
Output : 11 kW (15 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 21.0/12.1 A
L. R. Amperes : 147/84.6 A
LRC : 7.0
No load current : 7.00/4.03 A
Rated speed : 2940 rpm
Slip : 2.00 %
Rated torque : 26.4 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 1.06 sq.ft.lb
Design : N

Locked rotor time : 18s (cold) 10s (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 : 67.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 275 lb

Output	25%		50%		75%		100%	
Efficiency (%)	88.8	88.5	89.0	88.7	89.4	89.4	89.4	89.4
	88.1	87.7	88.3	88.0	89.4	90.2	89.4	90.2
Power Factor	0.52	0.49	0.78	0.74	0.86	0.84	0.89	0.88
	0.45	0.45	0.71	0.72	0.82	0.82	0.87	0.87

Foundation loads
Max. traction : 270 lb
Max. compression : 545 lb

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

Losses (%)	P1 (0,9;1,0)	11.6	11.6	11.6	10.6
	P2 (0,5;1,0)	9.8	9.8	9.8	9.0
	P3 (0,25;1,0)	8.7	8.7	8.7	7.9
	P4 (0,9;0,5)	5.7	5.7	5.7	5.2
	P5 (0,5;0,5)	3.7	3.7	3.7	3.4
	P6 (0,5;0,25)	2.4	2.4	2.4	2.2
	P7 (0,25;0,25)	1.5	1.5	1.5	1.4

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6309 C3	6209 C3	
Sealing :	V'Ring	V'Ring	
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	13 g	9 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
OOO «НАИО ЛЦБЭ»
IECEX
IECEX BAS 10.0099X
Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	26/03/2024			

Page 1 / 3
Revision

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Customer :

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 3	Revision
Checked by					
Date	26/03/2024				

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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	Revision
Checked by				3 / 3	
Date	26/03/2024				