

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861484

Catalog # : E00212ET3YAX112MF3-W

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

Frame	: 112M	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 2.2 kW (3 HP)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380-400-415/660-690 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.57-5.29-5.10/3.21-3.07 A	Protection degree	: IP55
L. R. Amperes	: 36.2-34.4-33.1/20.8-19.9 A	Cooling method	: IC411 - TEFC
LRC	: 6.5	Mounting	: B3T
No load current	: 3.16-3.00-2.89/1.82-1.74 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 960 rpm	Noise level ²	: 49.0 dB(A)
Slip	: 4.00 %	Starting method	: Direct On Line
Rated torque	: 16.2 ft.lb	Approx. weight ³	: 101 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.6091 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%
Efficiency (%)	82.6	83.0	84.5	84.5
Power Factor	0.28	0.48	0.61	0.71

Foundation loads	
Max. traction	: 229 lb
Max. compression	: 330 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
18.3	17.3	16.1	8.3	6.7	4.5	3.6

	Drive end	Non drive end
Bearing type	: 6207 ZZ	: 6206 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	Mobil Polyrex EM	

Notes:

ATEX
Baseefa 10ATEX0192X
BAS21UKEX0284X
II 3G Ex ec IIC T3 Gc
II 3D Ex tc IIIB T125°C Dc
EAC
TC RU C-BR.AA87.B.00977/22
2Ex ec IIC T3 Gc X
Ex tc IIIB T125°C Dc X
OOO «HAHИO ЛCBЭ»
IECEX
IECEX BAS 10.0099X
Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

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

Page 1 / 3
Revision

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

(2) Measured at 1m and with tolerance of +3dB(A).
(3) Approximate weight subject to changes after manufacturing process.
(4) At 100% of full load.

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

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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					
Date	27/03/2024				
				3 / 3	