

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 14387176

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

Catalog # : E0.1812EP3WAX71F3-W2

Frame : 71
Output : 0.18 kW (0.25 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 1.41/0.817 A
L. R. Amperes : 4.52/2.61 A
LRC : 3.2
No load current : 0.864/0.500 A
Rated speed : 905 rpm
Slip : 9.50 %
Rated torque : 1.40 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 180 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.0195 sq.ft.lb
Design : N

Locked rotor time : 172s (cold) 96s (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 : 43.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 23.2 lb

Output	25%		50%		75%		100%	
Efficiency (%)	53.7	50.7	54.2	52.0	59.0	58.0	58.7	59.0
	48.3	50.6	50.1	52.5	56.8	57.5	58.6	59.5
Power Factor	0.23	0.23	0.37	0.40	0.50	0.51	0.57	0.58
	0.22	0.21	0.38	0.37	0.48	0.46	0.57	0.55

Foundation loads
Max. traction : 19 lb
Max. compression : 42 lb

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

Losses (%)	P1 (0,9;1,0)	83.9	82.9	84.3	81.2
	P2 (0,5;1,0)	77.8	76.9	78.2	75.3
	P3 (0,25;1,0)	82.2	81.2	82.6	79.5
	P4 (0,9;0,5)	52.3	51.6	52.5	50.6
	P5 (0,5;0,5)	41.8	41.3	42.0	40.4
	P6 (0,5;0,25)	35.6	35.1	35.7	34.4
	P7 (0,25;0,25)	27.5	27.2	27.6	26.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6202 ZZ	6202 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
ООО «НАИО ЛСБЭ»
IECEX
IECEX BAS 10.0099X

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 3 Revision		
Checked by				
Date	26/03/2024			

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Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

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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

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