

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 14387240

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

Catalog # : E0.2512EP3WAX71F3-W2

Frame : 71
Output : 0.25 kW (0.33 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 1.72/0.995 A
L. R. Amperes : 4.81/2.79 A
LRC : 2.8
No load current : 1.21/0.700 A
Rated speed : 875 rpm
Slip : 12.50 %
Rated torque : 2.01 ft.lb
Locked rotor torque : 170 %
Breakdown torque : 180 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.0197 sq.ft.lb
Design : N

Locked rotor time : 126s (cold) 70s (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 : 27.6 lb

Output	25%		50%		75%		100%	
Efficiency (%)	54.5	51.3	56.3	53.0	60.0	60.0	61.6	61.6
	48.4	54.3	50.1	55.0	60.0	62.0	61.6	62.0
Power Factor	0.24	0.21	0.41	0.37	0.52	0.48	0.62	0.58
	0.20	0.20	0.35	0.35	0.45	0.44	0.54	0.53

Foundation loads
Max. traction : 22 lb
Max. compression : 50 lb

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

Losses (%)	P1 (0,9;1,0)	77.6	77.6	77.6	76.3
	P2 (0,5;1,0)	76.9	76.9	76.9	75.6
	P3 (0,25;1,0)	76.7	76.7	76.7	75.4
	P4 (0,9;0,5)	43.7	43.7	43.7	42.9
	P5 (0,5;0,5)	36.6	36.6	36.6	36.0
	P6 (0,5;0,25)	30.0	30.0	30.0	29.5
	P7 (0,25;0,25)	23.7	23.7	23.7	23.3

		<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 «НАИНО ЛЦБЭ»
IECEX
IECEX BAS 10.0099X

Rev.	Changes Summary	Performed	Checked	Date
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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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