

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 14387241

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

Catalog # : E0.5512EP3WAX80F3-W2

Frame : 80
Output : 0.55 kW (0.75 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 2.59/1.50 A
L. R. Amperes : 10.4/6.00 A
LRC : 4.0
No load current : 1.55/0.900 A
Rated speed : 905 rpm
Slip : 9.50 %
Rated torque : 4.28 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 200 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.0721 sq.ft.lb
Design : N

Locked rotor time : 37s (cold) 21s (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 : 35.5 lb

Output	25%		50%		75%		100%	
Efficiency (%)	65.8	62.8	67.5	65.0	71.8	71.0	73.1	73.1
	59.6	64.0	62.5	66.0	69.6	72.0	73.1	74.0
Power Factor	0.33	0.29	0.55	0.50	0.66	0.62	0.76	0.72
	0.28	0.27	0.47	0.47	0.60	0.56	0.70	0.67

Foundation loads
Max. traction : 75 lb
Max. compression : 111 lb

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

Losses (%)	P1 (0,9;1,0)	47.4	47.4	47.4	45.3
	P2 (0,5;1,0)	47.9	47.9	47.9	45.7
	P3 (0,25;1,0)	43.9	43.9	43.9	41.9
	P4 (0,9;0,5)	22.0	22.0	22.0	21.0
	P5 (0,5;0,5)	18.5	18.5	18.5	17.7
	P6 (0,5;0,25)	13.4	13.4	13.4	12.8
	P7 (0,25;0,25)	10.5	10.5	10.5	10.0

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6204 ZZ	6203 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 «НАННО ЛСБЭ»
IECEX
IECEX BAS 10.0099X

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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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