

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861535

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

Catalog # : E03712ET3YAX250SMF3W

Frame : 250S/M
Output : 37 kW (50 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 71.7/41.3 A
L. R. Amperes : 466/268 A
LRC : 6.5
No load current : 27.5/15.8 A
Rated speed : 985 rpm
Slip : 1.50 %
Rated torque : 265 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 29.4 sq.ft.lb
Design : N

Locked rotor time : 27s (cold) 15s (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 : 64.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 947 lb

Output	25%		50%		75%		100%	
Efficiency (%)	93.2	93.2	93.3	93.3	93.3	93.5	93.3	93.5
	92.3	92.8	92.5	93.0	93.5	94.1	93.5	94.1
Power Factor	0.45	0.40	0.70	0.65	0.80	0.77	0.84	0.81
	0.37	0.39	0.62	0.64	0.74	0.76	0.81	0.81

Foundation loads
Max. traction : 1570 lb
Max. compression : 2514 lb

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

Losses (%)	P1 (0,9;1,0)	7.0	6.8	6.8	6.1
	P2 (0,5;1,0)	6.0	5.8	5.8	5.2
	P3 (0,25;1,0)	5.5	5.3	5.3	4.8
	P4 (0,9;0,5)	3.1	3.0	3.0	2.7
	P5 (0,5;0,5)	2.2	2.1	2.1	1.9
	P6 (0,5;0,25)	1.4	1.3	1.3	1.2
	P7 (0,25;0,25)	1.0	0.9	0.9	0.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	27 g	27 g
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 «НАННО ЦСБЭ»
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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