

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 13669347

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

Catalog # : E03718ET3YAX225SMF3W

Frame : 225S/M
Output : 37 kW (50 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 71.3/41.1 A
L. R. Amperes : 528/304 A
LRC : 7.4
No load current : 28.0/16.1 A
Rated speed : 1483 rpm
Slip : 1.13 %
Rated torque : 176 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 12.3 sq.ft.lb
Design : N

Locked rotor time : 18s (cold) 10s (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 : 63.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 862 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.8	92.8	93.0	93.0	93.9	93.9	93.9	93.9
	92.0	92.0	92.5	92.6	93.5	94.0	93.9	94.5
Power Factor	0.44	0.40	0.69	0.65	0.79	0.76	0.84	0.82
	0.37	0.39	0.61	0.63	0.73	0.75	0.80	0.81

Foundation loads
Max. traction : 1417 lb
Max. compression : 2279 lb

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

Losses (%)	P1 (0,9;1,0)	6.2	6.2	6.2	5.5
	P2 (0,5;1,0)	5.2	5.2	5.2	4.6
	P3 (0,25;1,0)	5.1	5.1	5.1	4.5
	P4 (0,9;0,5)	3.1	3.1	3.1	2.8
	P5 (0,5;0,5)	2.1	2.1	2.1	1.9
	P6 (0,5;0,25)	1.4	1.4	1.4	1.2
	P7 (0,25;0,25)	1.0	1.0	1.0	0.9

	Drive end	Non drive end
Bearing type :	6314 C3	6314 C3
Sealing :	WSeal	WSeal
Lubrication interval :	14000 h	14000 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

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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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