

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861143

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

Catalog # : E05536ET3YAX250SMF3W

Frame : 250S/M
Output : 55 kW (75 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 101/58.0 A
L. R. Amperes : 755/435 A
LRC : 7.5
No load current : 32.0/18.4 A
Rated speed : 2963 rpm
Slip : 1.23 %
Rated torque : 131 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 8.86 sq.ft.lb
Design : N

Locked rotor time : 16s (cold) 9s (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 : 74.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1043 lb

Output	50%	75%	100%
Efficiency (%)	93.5 93.3	94.0 94.0	94.3 94.3
	93.1 92.2	94.0 93.6	94.4 93.6
Power Factor	0.78 0.75	0.85 0.83	0.88 0.86
	0.72 0.73	0.81 0.82	0.85 0.86

Foundation loads
Max. traction : 684 lb
Max. compression : 1726 lb

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

Losses (%)	P1 (0,9;1,0)	5.7	5.7	5.6	6.5
	P2 (0,5;1,0)	4.7	4.7	4.6	5.3
	P3 (0,25;1,0)	4.6	4.6	4.5	5.1
	P4 (0,9;0,5)	2.9	2.9	2.8	3.2
	P5 (0,5;0,5)	1.8	1.8	1.8	2.0
	P6 (0,5;0,25)	1.1	1.1	1.1	1.3
	P7 (0,25;0,25)	0.7	0.7	0.7	0.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	5000 h	5000 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
ООО «НАИНО ЛЦБЭ»
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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