

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861534

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

Catalog # : E03012ET3YAX225SMF3W

Frame : 225S/M
Output : 30 kW (40 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 58.4/33.6 A
L. R. Amperes : 380/219 A
LRC : 6.5
No load current : 21.3/12.3 A
Rated speed : 983 rpm
Slip : 1.70 %
Rated torque : 216 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 19.4 sq.ft.lb
Design : N

Locked rotor time : 39s (cold) 22s (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 : 961 lb

Output	50%	75%	100%
Efficiency (%)	93.3 93.0	93.3 93.4	92.9 93.1
	92.8 92.7	93.4 93.6	93.0 94.1
Power Factor	0.71 0.67	0.80 0.78	0.84 0.83
	0.64 0.65	0.75 0.76	0.81 0.82

Foundation loads
Max. traction : 1286 lb
Max. compression : 2247 lb

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

Losses (%)	P1 (0,9;1,0)	7.4	7.2	7.3	6.1
	P2 (0,5;1,0)	6.3	6.1	6.2	5.2
	P3 (0,25;1,0)	5.7	5.6	5.7	4.7
	P4 (0,9;0,5)	3.4	3.3	3.3	2.8
	P5 (0,5;0,5)	2.4	2.3	2.3	1.9
	P6 (0,5;0,25)	1.5	1.4	1.5	1.2
	P7 (0,25;0,25)	1.0	1.0	1.0	0.9

		<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

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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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