

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861438

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

Catalog # : E16018ET3YAX315SMF3W

Frame : 315S/M
Output : 160 kW (220 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 292/168 A
L. R. Amperes : 1898/1093 A
LRC : 6.5
No load current : 89.0/51.2 A
Rated speed : 1488 rpm
Slip : 0.80 %
Rated torque : 758 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 94.6 sq.ft.lb
Design : N

Locked rotor time : 57s (cold) 32s (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 : 71.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 2527 lb

Output	50%	75%	100%
Efficiency (%)	95.7 95.2	95.8 95.8	95.8 95.8
	95.0 94.7	95.8 95.7	95.8 96.2
Power Factor	0.76 0.73	0.84 0.82	0.87 0.85
	0.69 0.71	0.79 0.80	0.83 0.84

Foundation loads
Max. traction : 3268 lb
Max. compression : 5795 lb

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

Losses (%)	P1 (0,9;1,0)	4.6	4.6	4.6	4.2
	P2 (0,5;1,0)	3.7	3.7	3.7	3.3
	P3 (0,25;1,0)	3.1	3.1	3.1	2.8
	P4 (0,9;0,5)	2.5	2.5	2.5	2.3
	P5 (0,5;0,5)	1.7	1.7	1.7	1.5
	P6 (0,5;0,25)	1.2	1.2	1.2	1.1
	P7 (0,25;0,25)	0.7	0.7	0.7	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	11000 h	13000 h
Lubricant amount	:	45 g	34 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
Performed by		Page 1 / 3 Revision		
Checked by				
Date	27/03/2024			

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Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 2 / 3Revision		
Checked by					
Date	27/03/2024				

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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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 3 / 3	Revision
Checked by					
Date	27/03/2024				