

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861207

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

Catalog # : E16036ET3YAX315SMF3W

Frame : 315S/M
Output : 160 kW (220 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 286/165 A
L. R. Amperes : 2002/1153 A
LRC : 7.0
No load current : 72.0/41.5 A
Rated speed : 2975 rpm
Slip : 0.83 %
Rated torque : 379 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 260 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 53.3 sq.ft.lb
Design : N

Locked rotor time : 50s (cold) 28s (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 : 77.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 2297 lb

Output	25%		50%		75%		100%	
Efficiency (%)	94.9	94.7	95.0	94.8	95.6	95.6	95.6	95.6
	94.4	93.4	94.5	93.8	95.6	95.1	95.6	95.4
Power Factor	0.59	0.55	0.82	0.79	0.87	0.86	0.89	0.88
	0.52	0.53	0.77	0.78	0.84	0.85	0.87	0.88

Foundation loads
Max. traction : 1268 lb
Max. compression : 3565 lb

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

Losses (%)	P1 (0,9;1,0)	4.5	4.5	4.5	4.7
	P2 (0,5;1,0)	3.4	3.4	3.4	3.5
	P3 (0,25;1,0)	2.9	2.9	2.9	3.1
	P4 (0,9;0,5)	2.5	2.5	2.5	2.6
	P5 (0,5;0,5)	1.5	1.5	1.5	1.5
	P6 (0,5;0,25)	1.0	1.0	1.0	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6

		<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

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
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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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