

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 14352662

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

Catalog # : E11036EP3YAX315SMF3W

Frame : 315S/M
Output : 110 kW (150 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 201/116 A
L. R. Amperes : 1266/729 A
LRC : 6.3
No load current : 50.0/28.8 A
Rated speed : 2973 rpm
Slip : 0.90 %
Rated torque : 261 ft.lb
Locked rotor torque : 160 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 39.6 sq.ft.lb
Design : N

Locked rotor time : 43s (cold) 0s (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 : 2052 lb

Output	25%		50%		75%		100%	
Efficiency (%)	93.9	93.4	94.0	93.5	94.3	94.3	94.3	94.3
	93.4	91.8	93.5	92.4	94.3	94.0	94.3	94.5
Power Factor	0.58	0.54	0.81	0.77	0.87	0.85	0.88	0.87
	0.50	0.52	0.74	0.76	0.83	0.84	0.86	0.87

Foundation loads
Max. traction : 533 lb
Max. compression : 2585 lb

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

Losses (%)	P1 (0,9;1,0)	5.1	5.0	5.0	5.4
	P2 (0,5;1,0)	3.5	3.4	3.4	3.7
	P3 (0,25;1,0)	2.9	2.9	2.9	3.1
	P4 (0,9;0,5)	3.1	3.0	3.0	3.3
	P5 (0,5;0,5)	1.6	1.5	1.5	1.7
	P6 (0,5;0,25)	1.1	1.1	1.1	1.2
	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
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 «НАННО ЦСВЭ»
IECEX
IECEX BAS 10.0099X
Ex ec IIC T3 Gc

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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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