

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 14352809

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

Catalog # : E16018EP3YAX315SMF3W

Frame : 315S/M
Output : 160 kW (220 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 294/169 A
L. R. Amperes : 1911/1100 A
LRC : 6.5
No load current : 83.8/48.2 A
Rated speed : 1488 rpm
Slip : 0.80 %
Rated torque : 758 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 84.5 sq.ft.lb
Design : N

Locked rotor time : 36s (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 : 71.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 2231 lb

Output	25%		50%		75%		100%	
Efficiency (%)	95.1	94.7	95.0	94.8	95.4	95.4	95.2	95.4
	94.4	93.4	94.6	93.6	95.3	95.0	95.4	95.0
Power Factor	0.54	0.50	0.78	0.74	0.85	0.83	0.87	0.86
	0.46	0.48	0.71	0.73	0.81	0.82	0.85	0.86

Foundation loads
Max. traction : 3114 lb
Max. compression : 5345 lb

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

Losses (%)	P1 (0,9;1,0)	5.2	4.9	4.9	5.4
	P2 (0,5;1,0)	4.0	3.8	3.8	4.1
	P3 (0,25;1,0)	3.4	3.2	3.2	3.5
	P4 (0,9;0,5)	2.8	2.7	2.7	2.9
	P5 (0,5;0,5)	1.8	1.7	1.7	1.9
	P6 (0,5;0,25)	1.3	1.2	1.2	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	:	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:

EAC
TC RU C-BR.AA87.B.00977/22
2Ex ec IIC T3 Gc X
Ex tc IIIB T125°C Dc X
ООО «НАИО ЛЦБЭ»
IECEX
IECEX BAS 10.0099X
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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