

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 14351824

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

Catalog # : E01812EP3YAX200LF3-W

Frame : 200L
Output : 18.5 kW (25 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 36.9/21.2 A
L. R. Amperes : 210/121 A
LRC : 5.7
No load current : 13.5/7.77 A
Rated speed : 970 rpm
Slip : 3.00 %
Rated torque : 134 ft.lb
Locked rotor torque : 190 %
Breakdown torque : 220 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 8.34 sq.ft.lb
Design : N

Locked rotor time : 27s (cold) 15s (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 : 60.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 472 lb

Output	25%		50%		75%		100%	
Efficiency (%)	91.8	91.0	91.5	91.0	91.4	91.4	90.8	91.2
	90.2	90.8	90.5	91.0	91.2	91.7	91.3	91.7
Power Factor	0.46	0.42	0.71	0.67	0.80	0.77	0.84	0.82
	0.38	0.40	0.63	0.64	0.74	0.76	0.80	0.81

Foundation loads
Max. traction : 954 lb
Max. compression : 1426 lb

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

Losses (%)	P1 (0,9;1,0)	9.9	9.4	9.3	8.9
	P2 (0,5;1,0)	9.0	8.6	8.5	8.0
	P3 (0,25;1,0)	8.8	8.4	8.3	7.9
	P4 (0,9;0,5)	4.0	3.8	3.8	3.6
	P5 (0,5;0,5)	3.0	2.9	2.8	2.7
	P6 (0,5;0,25)	1.7	1.7	1.6	1.6
	P7 (0,25;0,25)	1.3	1.2	1.2	1.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 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
OOO «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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