

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 12919638

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

Catalog # : E03036EP3YAX200LF3-W

Frame : 200L
Output : 30 kW (40 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 56.9/32.8 A
L. R. Amperes : 381/219 A
LRC : 6.7
No load current : 18.0/10.4 A
Rated speed : 2960 rpm
Slip : 1.33 %
Rated torque : 71.4 ft.lb
Locked rotor torque : 280 %
Breakdown torque : 280 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 4.04 sq.ft.lb
Design : N

Locked rotor time : 23s (cold) 13s (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 : 72.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 504 lb

Output	25%		50%		75%		100%	
Efficiency (%)	90.8	90.8	91.0	91.0	92.0	92.0	92.0	92.0
	90.3	89.8	90.5	90.0	92.0	91.7	92.0	91.7
Power Factor	0.51	0.47	0.76	0.72	0.84	0.81	0.87	0.85
	0.43	0.45	0.67	0.70	0.78	0.79	0.83	0.84

Foundation loads
Max. traction : 587 lb
Max. compression : 1092 lb

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

Losses (%)	P1 (0,9;1,0)	7.7	7.4	7.3	7.3
	P2 (0,5;1,0)	6.5	6.2	6.1	6.1
	P3 (0,25;1,0)	6.0	5.7	5.6	5.6
	P4 (0,9;0,5)	3.6	3.5	3.4	3.4
	P5 (0,5;0,5)	2.3	2.2	2.2	2.2
	P6 (0,5;0,25)	1.4	1.3	1.3	1.3
	P7 (0,25;0,25)	0.9	0.9	0.9	0.9

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	15000 h	18000 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
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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