

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 12381963
Catalog # : E02236EP3YAX180MF3-W

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

Frame : 180M
Output : 22 kW (30 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 41.4/23.8 A
L. R. Amperes : 302/174 A
LRC : 7.3
No load current : 12.5/7.20 A
Rated speed : 2950 rpm
Slip : 1.67 %
Rated torque : 52.6 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 270 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 2.31 sq.ft.lb
Design : N

Locked rotor time : 18s (cold) 10s (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 : 67.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 401 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.4	91.9	92.2	91.9	92.2	92.4	91.8	92.2
	91.3	90.8	91.5	91.0	92.4	92.4	92.4	92.4
Power Factor	0.53	0.49	0.78	0.74	0.85	0.83	0.88	0.87
	0.45	0.47	0.71	0.72	0.80	0.82	0.85	0.86

Foundation loads
Max. traction : 464 lb
Max. compression : 867 lb

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

Losses (%)	P1 (0,9;1,0)	8.6	8.2	7.9	7.9
	P2 (0,5;1,0)	7.3	6.9	6.7	6.7
	P3 (0,25;1,0)	6.8	6.4	6.3	6.3
	P4 (0,9;0,5)	4.0	3.8	3.7	3.7
	P5 (0,5;0,5)	2.7	2.5	2.5	2.5
	P6 (0,5;0,25)	1.7	1.6	1.5	1.5
	P7 (0,25;0,25)	1.1	1.1	1.0	1.0

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6311 C3	6211 C3	
Sealing :	V'Ring	V'Ring	
Lubrication interval :	17000 h	20000 h	
Lubricant amount :	18 g	11 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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