

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 14351820

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

Catalog # : E01512EP3YAX180LF3-W

Frame : 180L
Output : 15 kW (20 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 29.9/17.2 A
L. R. Amperes : 209/121 A
LRC : 7.0
No load current : 11.5/6.62 A
Rated speed : 970 rpm
Slip : 3.00 %
Rated torque : 109 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 270 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 6.09 sq.ft.lb
Design : N

Locked rotor time : 12s (cold) 7s (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 : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 384 lb

Output	25%		50%		75%		100%	
Efficiency (%)	91.0	90.3	90.6	90.3	90.4	90.5	89.7	90.3
	89.6	90.0	89.9	90.2	90.5	91.0	90.6	91.0
Power Factor	0.45	0.42	0.70	0.69	0.80	0.79	0.85	0.84
	0.39	0.39	0.65	0.65	0.77	0.77	0.83	0.83

Foundation loads
Max. traction : 1177 lb
Max. compression : 1561 lb

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

Losses (%)	P1 (0,9;1,0)	11.5	10.8	10.4	9.9
	P2 (0,5;1,0)	10.8	10.1	9.8	9.3
	P3 (0,25;1,0)	9.9	9.3	8.9	8.5
	P4 (0,9;0,5)	4.8	4.4	4.3	4.1
	P5 (0,5;0,5)	3.7	3.4	3.3	3.1
	P6 (0,5;0,25)	2.2	2.0	1.9	1.9
	P7 (0,25;0,25)	1.6	1.5	1.5	1.4

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 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
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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