

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22Xdb IE3 Three-Phase	Product code : 12383748				
Area classification : ZONA 1, GRUPO IIB, T4 (135 °C)	Catalog # : E00156XT3WAX90SF3-W				
Frame : 90S/L Output : 1.5 kW (2 HP) Poles : 2 Frequency : 50 Hz Rated voltage : 220/380 V Rated current : 5.49/3.18 A L. R. Amperes : 38.4/22.3 A LRC : 7.0 No load current : 2.42/1.40 A Rated speed : 2885 rpm Slip : 3.83 % Rated torque : 3.66 ft.lb Locked rotor torque : 250 % Breakdown torque : 290 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 0.0470 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 : IP56 Cooling method : IC411 - TEFC Mounting : B3T Rotation ¹ : Both (CW and CCW) Noise level ² : 62.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 92.8 lb				
Output	25% 50% 75% 100%				
Efficiency (%)	82.5 82.0 83.0 82.5 84.0 84.0 84.2 84.2 81.5 79.4 82.0 81.0 84.0 84.0 84.2 85.5				
Power Factor	0.42 0.37 0.68 0.62 0.79 0.75 0.85 0.83 0.34 0.36 0.58 0.60 0.71 0.72 0.80 0.81				
Foundation loads					
	Max. traction : 69 lb				
	Max. compression : 161 lb				
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	18.0	18.0	18.0	16.3
	P2 (0,5;1,0)	15.6	15.6	15.6	14.1
	P3 (0,25;1,0)	15.2	15.2	15.2	13.7
	P4 (0,9;0,5)	9.0	9.0	9.0	8.1
	P5 (0,5;0,5)	5.9	5.9	5.9	5.4
	P6 (0,5;0,25)	4.0	4.0	4.0	3.6
	P7 (0,25;0,25)	2.8	2.8	2.8	2.5
Bearing type	: Drive end 6205 ZZ Non drive end 6204 ZZ				
Sealing	: Oil Seal Lip Seal				
Lubrication interval	: - -				
Lubricant amount	: - -				
Lubricant type	: Mobil Polyrex EM				
Notes:					
ATEX INERIS 22ATEX0025X CML 23UKEX1256X II 2G Ex db IIB T4 Gb EAC EAЭC RU C-BR.AA87.B.00379/20 1Ex db IIB T4 Gb X ООО «НАНИО ЦСВЭ» IECEX IECEX INE 22.0044X Ex db IIB T4 Gb					
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	150 °C

Space heater information

Voltage: 200 - 240 V

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