DATA SHEET

Three Phase Induction Motor - Squirrel Cage



E09036XP3YAX280SMF3W

Customer :

Product line : W22Xdb IE2 Three-Phase Product code : 12430233

Area classification : ZONA 1, GRUPO IIB, T4 (135 °C)

Frame : 280S/M Locked rotor time : 45s (cold) 25s (hot)

Catalog #:

Output : 90 kW (125 HP) Temperature rise : 80 K Poles : 2 Duty cycle : S1

Frequency : 50 Hz Ambient temperature : -20°C to +40°C Rated voltage : 380/660 V Altitude : 1000 m.a.s.l. Rated current : 165/94.8 A Protection degree : IP56

L. R. Amperes : 1152/663 A Cooling method : IC411 - TEFC LRC : 7.0 Mounting : B3T

No load current: 42.0/24.2 ARotation¹: Both (CW and CCW)Rated speed: 2975 rpmNoise level²: 77.0 dB(A)Slip: 0.83 %Starting method: Direct On Line

Rated torque : 213 ft.lb Approx. weight³ : 2053 lb

Locked rotor torque : 250 %

Breakdown torque : 250 %

Service factor : 1.00

Moment of inertia (J) : 22.3 sq.ft.lb

Design : N

: F

Output 25% 50% 75% 100% Foundation loads

Efficiency (%) 94.1 93.7 94.0 93.8 94.6 94.6 94.4 94.6 | Max. traction : 485 lb 93.4 91.5 93.5 92.4 94.5 93.6 94.5 94.5 |

Power Factor 0.57 0.53 0.80 0.77 0.86 0.84 0.88 0.87 Max. compression : 2538 lb

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

0.49 0.52 0.74 0.76 0.82 0.84 0.86 0.87

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	P1 (0,9;1,0)	5.5	5.3	5.4	5.4
	P2 (0,5;1,0)	3.9	3.8	3.8	3.8
	P3 (0,25;1,0)	3.4	3.3	3.4	3.4
Losses (%)	P4 (0,9;0,5)	3.2	3.0	3.1	3.1
	P5 (0,5;0,5)	1.7	1.6	1.7	1.7
	P6 (0,5;0,25)	1.2	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6

 Drive end
 Non drive end

 Bearing type
 : 6314 C3
 6314 C3

 Sealing
 : Viton Oil Seal
 Viton Oil Seal

 Lubrication interval
 : 5000 h
 5000 h

Lubricant amount : 27 g 27 g

Lubricant type : Mobil Polyrex EM

Notes:

Insulation class

EAC

EA9C RU C-BR.AA87.B.00379/20

1Ex db IIB T4 Gb X OOO «НАНИО ЦСВЭ» IECEx

ECEX

IECEx INE 16.0044X Ex db IIB T4 Gb

This revision replaces and cancel the previous one, which must be eliminated.

(1) Looking the motor from the shaft end.

(2) Measured at 1m and with tolerance of +3dB(A).

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

(2) Measureu at	TITI ATIU WILLI LOIETA	ance or +sub(A).			
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Performed by					
Checked by				Page	Revision
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Date

27/03/2024



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Customer	:				
(3) Approximate	weight subject to changes after				
manufacturing po (4) At 100% of fu	ocess. Il load.				
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Customer :

Thermal protection

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

Space heater information

Voltage: 200 - 240 V