

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12383750

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

Catalog # : E00236XT3WAX90LF3-W

Frame : 90S/L
Output : 2.2 kW (3 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 7.81/4.52 A
L. R. Amperes : 54.7/31.6 A
LRC : 7.0
No load current : 2.85/1.65 A
Rated speed : 2855 rpm
Slip : 4.83 %
Rated torque : 5.43 ft.lb
Locked rotor torque : 280 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.0610 sq.ft.lb
Design : N

Locked rotor time : 21s (cold) 12s (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
Rotation¹ : Both (CW and CCW)
Noise level² : 62.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 98.0 lb

Output	25%		50%		75%		100%	
Efficiency (%)	84.3	84.9	85.0	85.5	85.5	86.0	85.9	86.3
	84.9	82.8	85.3	84.0	86.4	85.5	86.5	86.5
Power Factor	0.46	0.41	0.70	0.65	0.81	0.77	0.86	0.83
	0.37	0.40	0.61	0.64	0.74	0.76	0.81	0.83

Foundation loads
Max. traction : 114 lb
Max. compression : 211 lb

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

Losses (%)	P1 (0,9;1,0)	16.1	15.6	15.3	15.3
	P2 (0,5;1,0)	14.0	13.6	13.4	13.4
	P3 (0,25;1,0)	12.5	12.1	11.9	11.9
	P4 (0,9;0,5)	7.0	6.8	6.7	6.7
	P5 (0,5;0,5)	4.7	4.6	4.5	4.5
	P6 (0,5;0,25)	2.8	2.7	2.6	2.6
	P7 (0,25;0,25)	1.9	1.8	1.8	1.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 ZZ	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 «НАННО ЛСВЭ»
IECEX
IECEX INE 22.0044X
Ex db IIB T4 Gb

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	27/03/2024			

Page 1 / 3
Revision

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Customer :

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 3	Revision
Checked by					
Date	27/03/2024				

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Customer :

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 3		Revision
Checked by				
Date	27/03/2024			