

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12383752
Catalog # : E00336XT3WAX100LF3-W

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

Frame : 100L
Output : 3 kW (4 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 10.3/5.95 A
L. R. Amperes : 82.2/47.6 A
LRC : 8.0
No load current : 3.97/2.30 A
Rated speed : 2890 rpm
Slip : 3.67 %
Rated torque : 7.32 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 350 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.1521 sq.ft.lb
Design : N

Locked rotor time : 27s (cold) 15s (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 : 67.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 124 lb

Output	25%		50%		75%		100%	
Efficiency (%)	84.7	84.0	85.5	85.0	86.5	86.5	87.1	87.3
	83.4	80.5	84.5	82.5	86.5	86.5	87.4	88.5
Power Factor	0.47	0.42	0.73	0.68	0.83	0.79	0.88	0.85
	0.39	0.43	0.64	0.68	0.76	0.79	0.83	0.84

Foundation loads
Max. traction : 166 lb
Max. compression : 290 lb

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

Losses (%)	P1 (0,9;1,0)	14.0	13.7	13.6	12.2
	P2 (0,5;1,0)	11.5	11.3	11.2	10.1
	P3 (0,25;1,0)	11.1	10.9	10.8	9.8
	P4 (0,9;0,5)	7.2	7.0	7.0	6.3
	P5 (0,5;0,5)	4.4	4.3	4.3	3.9
	P6 (0,5;0,25)	2.9	2.8	2.8	2.5
	P7 (0,25;0,25)	1.9	1.9	1.8	1.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6205 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
EA3C 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		Page 1 / 3		
Checked by				
Date	27/03/2024			
			Revision	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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	Revision
Checked by				3 / 3	
Date	27/03/2024				