

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code :

12383803

Catalog # :

E00318XT3WAX100LF3-W

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

Frame : 100L
Output : 3 kW (4 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 10.8/6.26 A
L. R. Amperes : 84.3/48.8 A
LRC : 7.8
No load current : 5.18/3.00 A
Rated speed : 1430 rpm
Slip : 4.67 %
Rated torque : 14.8 ft.lb
Locked rotor torque : 350 %
Breakdown torque : 280 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.2838 sq.ft.lb
Design : N

Locked rotor time : 23s (cold) 13s (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 : 53.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 138 lb

Output	25%		50%		75%		100%	
Efficiency (%)	87.6	86.6	87.7	87.0	88.0	88.0	87.7	88.0
	85.6	81.3	86.3	84.0	87.7	86.5	88.1	89.5
Power Factor	0.39	0.35	0.65	0.60	0.77	0.73	0.83	0.80
	0.32	0.35	0.56	0.59	0.70	0.71	0.78	0.79

Foundation loads
Max. traction : 292 lb
Max. compression : 429 lb

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

Losses (%)	P1 (0,9;1,0)	13.6	13.2	13.1	11.4
	P2 (0,5;1,0)	12.3	11.9	11.8	10.3
	P3 (0,25;1,0)	12.0	11.6	11.5	10.0
	P4 (0,9;0,5)	5.9	5.7	5.7	4.9
	P5 (0,5;0,5)	4.4	4.3	4.3	3.7
	P6 (0,5;0,25)	2.7	2.7	2.6	2.3
	P7 (0,25;0,25)	2.1	2.0	2.0	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

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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

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