

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12383799

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

Catalog # : E00158XT3WAX90LF3-W

Frame : 90S/L
Output : 1.5 kW (2 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 5.70/3.30 A
L. R. Amperes : 39.3/22.8 A
LRC : 6.9
No load current : 2.94/1.70 A
Rated speed : 1440 rpm
Slip : 4.00 %
Rated torque : 7.34 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 270 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.1554 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 : 49.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 97.4 lb

Output	25%		50%		75%		100%	
Efficiency (%)	84.7	83.2	85.0	84.0	85.3	85.0	85.3	85.5
	82.1	81.3	83.1	82.5	85.0	85.5	85.7	86.5
Power Factor	0.37	0.34	0.63	0.58	0.76	0.72	0.81	0.79
	0.31	0.32	0.54	0.56	0.68	0.69	0.77	0.77

Foundation loads
Max. traction : 150 lb
Max. compression : 247 lb

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

Losses (%)	P1 (0,9;1,0)	17.5	17.2	16.9	15.8
	P2 (0,5;1,0)	16.6	16.3	16.1	15.0
	P3 (0,25;1,0)	14.9	14.6	14.4	13.5
	P4 (0,9;0,5)	8.0	7.9	7.7	7.2
	P5 (0,5;0,5)	6.2	6.1	6.0	5.7
	P6 (0,5;0,25)	4.2	4.1	4.1	3.8
	P7 (0,25;0,25)	3.3	3.2	3.2	3.0

		<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
EA3C RU C-BR.AA87.B.00379/20
1Ex db IIB T4 Gb X
ООО «НАННО ЦСВЭ»
IECEX
IECEX INE 22.0044X
Ex db IIB T4 Gb

Rev.	Changes Summary	Performed	Checked	Date
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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

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