

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12383727

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

Catalog # : E00136XT3WAX80F3-W2

Frame : 80
Output : 1.1 kW (1.5 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 4.09/2.37 A
L. R. Amperes : 27.4/15.9 A
LRC : 6.7
No load current : 1.90/1.10 A
Rated speed : 2815 rpm
Slip : 6.17 %
Rated torque : 2.75 ft.lb
Locked rotor torque : 360 %
Breakdown torque : 320 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.0221 sq.ft.lb
Design : N

Locked rotor time : 41s (cold) 23s (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 : 59.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 60.6 lb

Output	25%		50%		75%		100%	
Efficiency (%)	81.5	81.0	82.0	81.5	83.0	83.0	83.0	83.0
	79.1	76.1	80.0	78.5	83.0	81.5	83.4	84.0
Power Factor	0.41	0.36	0.66	0.61	0.78	0.73	0.85	0.82
	0.32	0.36	0.56	0.59	0.70	0.72	0.79	0.80

Foundation loads
Max. traction : 67 lb
Max. compression : 128 lb

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

Losses (%)	P1 (0,9;1,0)	20.1	20.1	19.5	18.7
	P2 (0,5;1,0)	17.8	17.8	17.3	16.5
	P3 (0,25;1,0)	16.2	16.2	15.7	15.0
	P4 (0,9;0,5)	9.8	9.8	9.5	9.1
	P5 (0,5;0,5)	6.7	6.7	6.5	6.2
	P6 (0,5;0,25)	4.3	4.3	4.2	4.0
	P7 (0,25;0,25)	3.0	3.0	2.9	2.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6204 ZZ	6203 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

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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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