

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 13974856

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

Catalog # : E0.3712EP3WAX80F3-W2

Frame : 80
Output : 0.37 kW (0.5 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 1.88/1.09 A
L. R. Amperes : 7.34/4.25 A
LRC : 3.9
No load current : 1.21/0.700 A
Rated speed : 910 rpm
Slip : 9.00 %
Rated torque : 2.87 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 180 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.0522 sq.ft.lb
Design : N

Locked rotor time : 48s (cold) 27s (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 : 43.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 57.3 lb

Output	25%		50%		75%		100%	
Efficiency (%)	62.9	64.0	64.0	65.0	67.0	67.0	67.6	67.6
	60.9	62.1	62.0	64.0	67.0	66.0	67.6	68.0
Power Factor	0.30	0.27	0.52	0.47	0.66	0.62	0.76	0.72
	0.25	0.26	0.44	0.48	0.58	0.60	0.69	0.70

Foundation loads
Max. traction : 31 lb
Max. compression : 88 lb

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

Losses (%)	P1 (0,9;1,0)	60.3	60.3	60.3	59.2
	P2 (0,5;1,0)	61.0	61.0	61.0	59.9
	P3 (0,25;1,0)	60.5	60.5	60.5	59.4
	P4 (0,9;0,5)	31.2	31.2	31.2	30.6
	P5 (0,5;0,5)	25.4	25.4	25.4	25.0
	P6 (0,5;0,25)	20.1	20.1	20.1	19.7
	P7 (0,25;0,25)	15.0	15.0	15.0	14.7

		<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 ЦСВЭ»
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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