

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12430656
Catalog # : E01818XT3YAX180MF3-W

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

Frame	: 180M/L	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 18.5 kW (25 HP)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380/660 V	Altitude	: 1000 m.a.s.l.
Rated current	: 36.1/20.8 A	Protection degree	: IP56
L. R. Amperes	: 256/148 A	Cooling method	: IC411 - TEFC
LRC	: 7.1	Mounting	: B3T
No load current	: 14.2/8.18 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1475 rpm	Noise level ²	: 61.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 88.4 ft.lb	Approx. weight ³	: 590 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 4.13 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	92.0	91.6	92.2	91.8	92.6	92.6	92.6	92.6	Max. traction	: 945 lb
	91.3	91.0	91.5	91.7	92.6	93.0	92.6	93.6		
Power Factor	0.44	0.40	0.69	0.64	0.79	0.76	0.84	0.82	Max. compression	: 1546 lb
	0.37	0.38	0.61	0.62	0.73	0.74	0.80	0.81		

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

Losses (%)	P1 (0,9;1,0)	7.8	7.8	7.8	6.7
	P2 (0,5;1,0)	7.0	7.0	7.0	6.0
	P3 (0,25;1,0)	6.8	6.8	6.8	5.8
	P4 (0,9;0,5)	3.6	3.6	3.6	3.1
	P5 (0,5;0,5)	2.7	2.7	2.7	2.3
	P6 (0,5;0,25)	1.7	1.7	1.7	1.5
	P7 (0,25;0,25)	1.3	1.3	1.3	1.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 C3	6309 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	13 g
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
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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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