

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12430631
Catalog # : E01536XT3YAX160MF3-W

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

Frame	: 160M/L	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 15 kW (20 HP)	Temperature rise	: 80 K
Poles	: 2	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	: 28.5/16.4 A	Protection degree	: IP56
L. R. Amperes	: 222/128 A	Cooling method	: IC411 - TEFC
LRC	: 7.8	Mounting	: B3T
No load current	: 10.0/5.76 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2945 rpm	Noise level ²	: 67.0 dB(A)
Slip	: 1.83 %	Starting method	: Direct On Line
Rated torque	: 35.9 ft.lb	Approx. weight ³	: 444 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 1.31 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	90.6	90.5	91.0	90.9	91.6	91.8	91.9	92.0	Max. traction	: 384 lb
	89.8	89.3	90.3	89.7	91.6	91.5	91.9	91.7		
Power Factor	0.48	0.43	0.72	0.67	0.82	0.79	0.87	0.85	Max. compression	: 840 lb
	0.40	0.41	0.63	0.66	0.76	0.78	0.82	0.83		

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

Losses (%)	P1 (0,9;1,0)	8.6	8.5	8.6	8.8
	P2 (0,5;1,0)	7.4	7.3	7.4	7.6
	P3 (0,25;1,0)	7.1	7.0	7.1	7.3
	P4 (0,9;0,5)	4.2	4.1	4.2	4.3
	P5 (0,5;0,5)	2.8	2.8	2.8	2.9
	P6 (0,5;0,25)	1.8	1.8	1.8	1.9
	P7 (0,25;0,25)	1.3	1.3	1.3	1.3

		Drive end	Non drive end
Bearing type	:	6309 C3	6308 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	11 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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