

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12430632

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

Catalog # : E01836XT3YAX160LF3-W

Frame	: 160M/L	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 18.5 kW (25 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	: 34.6/19.9 A	Protection degree	: IP56
L. R. Amperes	: 277/159 A	Cooling method	: IC411 - TEFC
LRC	: 8.0	Mounting	: B3T
No load current	: 12.0/6.91 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	: 44.3 ft.lb	Approx. weight ³	: 468 lb
Locked rotor torque	: 280 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 1.57 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	91.7	91.2	92.0	91.5	92.3	92.3	92.4	92.4	Max. traction	: 515 lb
	90.6	90.2	91.0	90.6	92.2	92.2	92.4	92.4		
Power Factor	0.49	0.44	0.74	0.69	0.83	0.80	0.88	0.85	Max. compression	: 995 lb
	0.40	0.42	0.64	0.67	0.77	0.79	0.83	0.84		

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

Losses (%)	P1 (0,9;1,0)	8.0	7.7	8.0	8.0
	P2 (0,5;1,0)	6.7	6.5	6.7	6.7
	P3 (0,25;1,0)	6.1	5.9	6.1	6.1
	P4 (0,9;0,5)	3.8	3.7	3.8	3.8
	P5 (0,5;0,5)	2.5	2.4	2.5	2.5
	P6 (0,5;0,25)	1.6	1.5	1.6	1.6
	P7 (0,25;0,25)	1.0	1.0	1.0	1.0

		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
 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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