

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12430655

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

Catalog # : E01518XT3YAX160LF3-W

Frame	: 160M/L	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 15 kW (20 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	: 29.1/16.8 A	Protection degree	: IP56
L. R. Amperes	: 192/111 A	Cooling method	: IC411 - TEFC
LRC	: 6.6	Mounting	: B3T
No load current	: 12.0/6.91 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1470 rpm	Noise level ²	: 61.0 dB(A)
Slip	: 2.00 %	Starting method	: Direct On Line
Rated torque	: 71.9 ft.lb	Approx. weight ³	: 454 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 3.64 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	92.2	92.0	92.1	92.0	92.4	92.5	92.1	92.3	Max. traction	: 707 lb
	91.4	91.8	91.4	92.0	92.3	92.9	92.1	93.0		
Power Factor	0.44	0.40	0.70	0.66	0.80	0.77	0.85	0.83	Max. compression	: 1173 lb
	0.37	0.37	0.62	0.63	0.75	0.75	0.81	0.81		

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

Losses (%)	P1 (0,9;1,0)	8.5	8.2	8.5	7.4
	P2 (0,5;1,0)	7.5	7.3	7.5	6.6
	P3 (0,25;1,0)	7.2	7.0	7.2	6.3
	P4 (0,9;0,5)	3.9	3.8	3.9	3.4
	P5 (0,5;0,5)	2.9	2.8	2.9	2.5
	P6 (0,5;0,25)	1.8	1.8	1.8	1.6
	P7 (0,25;0,25)	1.4	1.3	1.4	1.2

		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

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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