

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 15073830

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

Catalog # : E05518XT3YAX250SMF3W

Frame	: 250S/M	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 55 kW (75 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	: 103/59.3 A	Protection degree	: IP56
L. R. Amperes	: 690/397 A	Cooling method	: IC411 - TEFC
LRC	: 6.7	Mounting	: B3T
No load current	: 39.0/22.5 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1480 rpm	Noise level ²	: 64.0 dB(A)
Slip	: 1.33 %	Starting method	: Direct On Line
Rated torque	: 262 ft.lb	Approx. weight ³	: 1392 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 22.3 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	94.4	94.2	94.5	94.3	94.6	94.6	94.6	94.6	Max. traction	: 1520 lb
	93.9	93.6	94.0	94.1	94.6	95.0	94.6	95.4		
Power Factor	0.47	0.43	0.73	0.69	0.82	0.80	0.86	0.84	Max. compression	: 2912 lb
	0.40	0.41	0.66	0.67	0.78	0.78	0.83	0.83		

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

Losses (%)	P1 (0,9;1,0)	5.5	5.5	5.5	4.6
	P2 (0,5;1,0)	4.6	4.6	4.6	3.9
	P3 (0,25;1,0)	4.6	4.6	4.6	3.9
	P4 (0,9;0,5)	2.6	2.6	2.6	2.2
	P5 (0,5;0,5)	1.8	1.8	1.8	1.5
	P6 (0,5;0,25)	1.1	1.1	1.1	1.0
	P7 (0,25;0,25)	0.8	0.8	0.8	0.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	Viton Oil Seal	Viton Oil Seal
Lubrication interval	:	14000 h	14000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
 INERIS 17ATEX0001X
 CML 21UKEX1314X
 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 16.0060X
 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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