

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12383765

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

Catalog # : E16036XT3YAX315SMF3W

Frame	: 315S/M	Locked rotor time	: 50s (cold) 28s (hot)
Output	: 160 kW (220 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	: 282/162 A	Protection degree	: IP56
L. R. Amperes	: 1974/1137 A	Cooling method	: IC411 - TEFC
LRC	: 7.0	Mounting	: B3T
No load current	: 70.0/40.3 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2980 rpm	Noise level ²	: 77.0 dB(A)
Slip	: 0.67 %	Starting method	: Direct On Line
Rated torque	: 379 ft.lb	Approx. weight ³	: 2822 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 53.3 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	95.2	95.0	95.3	95.1	95.8	95.8	95.8	95.8	Max. traction	: 1045 lb
	94.8	93.4	94.9	93.8	95.8	95.1	95.8	95.4		
Power Factor	0.59	0.55	0.82	0.79	0.88	0.86	0.90	0.89	Max. compression	: 3788 lb
	0.53	0.54	0.77	0.78	0.85	0.86	0.88	0.89		

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

Losses (%)	P1 (0,9;1,0)	4.3	4.3	4.3	4.7
	P2 (0,5;1,0)	3.2	3.2	3.2	3.6
	P3 (0,25;1,0)	2.9	2.9	2.9	3.2
	P4 (0,9;0,5)	2.3	2.3	2.3	2.6
	P5 (0,5;0,5)	1.4	1.4	1.4	1.5
	P6 (0,5;0,25)	0.9	0.9	0.9	1.0
	P7 (0,25;0,25)	0.5	0.5	0.5	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	Viton Oil Seal	Viton Oil Seal
Lubrication interval	:	5000 h	5000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
 INERIS 16ATEX0036X
 CML 21UKEX1315X
 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 16.0044X
 Ex db IIB T4 Gb

Rev.	Changes Summary	Performed	Checked	Date
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			Revision	

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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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