

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12431173

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

Catalog # : E04512XT3YAX280SMF3W

Frame	: 280S/M	Locked rotor time	: 55s (cold) 31s (hot)
Output	: 45 kW (60 HP)	Temperature rise	: 80 K
Poles	: 6	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	: 87.8/50.6 A	Protection degree	: IP56
L. R. Amperes	: 509/293 A	Cooling method	: IC411 - TEFC
LRC	: 5.8	Mounting	: B3T
No load current	: 33.3/19.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 985 rpm	Noise level ²	: 65.0 dB(A)
Slip	: 1.50 %	Starting method	: Direct On Line
Rated torque	: 322 ft.lb	Approx. weight ³	: 1981 lb
Locked rotor torque	: 190 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 55.8 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	93.6	93.8	93.7	93.9	93.8	93.9	Max. traction : 995 lb
	93.6	92.5	93.7	93.0	94.0	94.1	
Power Factor	0.45	0.41	0.70	0.67	0.80	0.77	Max. compression : 2985 lb
	0.39	0.39	0.64	0.64	0.75	0.75	

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

Losses (%)	P1 (0,9;1,0)	6.2	6.1	6.0	5.5
	P2 (0,5;1,0)	5.0	4.9	4.8	4.4
	P3 (0,25;1,0)	4.7	4.6	4.5	4.1
	P4 (0,9;0,5)	3.1	3.0	3.0	2.7
	P5 (0,5;0,5)	2.0	1.9	1.9	1.7
	P6 (0,5;0,25)	1.3	1.3	1.2	1.1
	P7 (0,25;0,25)	0.8	0.8	0.8	0.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6316 C3	6316 C3
Sealing	:	Viton Oil Seal	Viton Oil Seal
Lubrication interval	:	18000 h	18000 h
Lubricant amount	:	34 g	34 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
Performed by		Page 1 / 3		
Checked by				
Date	27/03/2024			
			Revision	

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Customer :

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 3	Revision
Checked by					
Date	27/03/2024				

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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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 3 / 3	Revision
Checked by					
Date	27/03/2024				