

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12430658

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

Catalog # : E03718XT3YAX225SMF3W

Frame : 225S/M
Output : 37 kW (50 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 71.3/41.1 A
L. R. Amperes : 528/304 A
LRC : 7.4
No load current : 28.0/16.1 A
Rated speed : 1483 rpm
Slip : 1.13 %
Rated torque : 176 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 12.3 sq.ft.lb
Design : N

Locked rotor time : 18s (cold) 10s (hot)
Temperature rise : 80 K
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP56
Cooling method : IC411 - TEFC
Mounting : B3T
Rotation¹ : Both (CW and CCW)
Noise level² : 63.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1185 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.8	92.8	93.0	93.0	93.9	93.9	93.9	93.9
	92.0	92.0	92.5	92.6	93.5	94.0	93.9	94.5
Power Factor	0.44	0.40	0.69	0.65	0.79	0.76	0.84	0.82
	0.37	0.39	0.61	0.63	0.73	0.75	0.80	0.81

Foundation loads
Max. traction : 1255 lb
Max. compression : 2441 lb

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

Losses (%)	P1 (0,9;1,0)	6.1	5.9	6.1	5.5
	P2 (0,5;1,0)	5.0	4.8	5.0	4.5
	P3 (0,25;1,0)	4.8	4.7	4.8	4.3
	P4 (0,9;0,5)	2.9	2.8	2.9	2.6
	P5 (0,5;0,5)	1.9	1.9	1.9	1.7
	P6 (0,5;0,25)	1.2	1.2	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	:	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

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				