

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12431118

Catalog # : E00412XT3YAX132MF3-W

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

Frame : 132S/M
Output : 4 kW (5.5 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 9.21/5.30 A
L. R. Amperes : 55.3/31.8 A
LRC : 6.0
No load current : 4.90/2.82 A
Rated speed : 960 rpm
Slip : 4.00 %
Rated torque : 29.4 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 220 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 1.17 sq.ft.lb
Design : N

Locked rotor time : 36s (cold) 20s (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 : 53.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 245 lb

Output	25%		50%		75%		100%	
Efficiency (%)	86.0	85.7	86.3	86.0	86.8	86.8	86.8	86.8
	84.8	84.8	85.4	86.2	86.5	88.2	86.8	89.5
Power Factor	0.34	0.30	0.57	0.53	0.70	0.66	0.76	0.73
	0.28	0.29	0.49	0.50	0.62	0.63	0.71	0.71

Foundation loads
Max. traction : 298 lb
Max. compression : 544 lb

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

Losses (%)	P1 (0,9;1,0)	14.7	14.7	14.7	11.4
	P2 (0,5;1,0)	13.6	13.6	13.6	10.5
	P3 (0,25;1,0)	13.9	13.9	13.9	10.7
	P4 (0,9;0,5)	7.0	7.0	7.0	5.4
	P5 (0,5;0,5)	5.5	5.5	5.5	4.3
	P6 (0,5;0,25)	3.9	3.9	3.9	3.0
	P7 (0,25;0,25)	3.1	3.1	3.1	2.4

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6207 ZZ
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
INERIS 22ATEX0025X
CML 23UKEX1256X
II 2G Ex db IIB T4 Gb
EAC
EA3C RU C-BR.AA87.B.00379/20
1Ex db IIB T4 Gb X
ООО «НАННО ЛСВЭ»
IECEX
IECEX INE 22.0044X
Ex db IIB T4 Gb

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 3		
Checked by				
Date	27/03/2024			
			Revision	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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	Revision
Checked by				3 / 3	
Date	27/03/2024				