

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12430778

Catalog # : E00712XT3YAX160MF3-W

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

Frame : 160M/L
Output : 7.5 kW (10 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 15.8/9.09 A
L. R. Amperes : 91.6/52.7 A
LRC : 5.8
No load current : 6.80/3.92 A
Rated speed : 965 rpm
Slip : 3.50 %
Rated torque : 54.8 ft.lb
Locked rotor torque : 190 %
Breakdown torque : 220 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 3.33 sq.ft.lb
Design : N

Locked rotor time : 28s (cold) 16s (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 : 57.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 405 lb

Output	25%		50%		75%		100%	
Efficiency (%)	88.5	88.2	88.9	88.5	89.0	89.0	89.1	89.1
	87.7	86.4	88.0	87.9	89.0	89.5	89.1	91.0
Power Factor	0.41	0.37	0.65	0.63	0.76	0.73	0.81	0.79
	0.34	0.35	0.59	0.59	0.70	0.70	0.78	0.78

Foundation loads
Max. traction : 439 lb
Max. compression : 856 lb

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

Losses (%)	P1 (0,9;1,0)	12.4	12.4	12.4	10.0
	P2 (0,5;1,0)	11.9	11.9	11.9	9.6
	P3 (0,25;1,0)	11.3	11.3	11.3	9.1
	P4 (0,9;0,5)	5.2	5.2	5.2	4.2
	P5 (0,5;0,5)	4.1	4.1	4.1	3.3
	P6 (0,5;0,25)	2.5	2.5	2.5	2.0
	P7 (0,25;0,25)	1.9	1.9	1.9	1.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6308 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	11 g
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 3 / 3		Revision
Checked by				
Date	27/03/2024			