

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 14351827

Area classification : ZONA 2/22, GRUPO IIC/IIIB, T3(200 °C)/
T125 °C

Catalog # : E03012EP3YAX225SMF3W

Frame : 225S/M
Output : 30 kW (40 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 59.2/34.1 A
L. R. Amperes : 367/211 A
LRC : 6.2
No load current : 24.0/13.8 A
Rated speed : 985 rpm
Slip : 1.50 %
Rated torque : 215 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 17.1 sq.ft.lb
Design : N

Locked rotor time : 21s (cold) 12s (hot)
Temperature rise : 80 K
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : B3T
Rotation¹ : Both (CW and CCW)
Noise level² : 63.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 792 lb

Output	25%		50%		75%		100%	
Efficiency (%)	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7
	91.2	91.0	91.3	91.7	91.7	92.4	91.7	93.0
Power Factor	0.44	0.39	0.70	0.65	0.79	0.76	0.84	0.82
	0.36	0.39	0.62	0.66	0.73	0.76	0.80	0.81

Foundation loads
Max. traction : 1553 lb
Max. compression : 2346 lb

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

Losses (%)	P1 (0,9;1,0)	8.7	8.7	8.7	7.3
	P2 (0,5;1,0)	7.3	7.3	7.3	6.0
	P3 (0,25;1,0)	6.6	6.6	6.6	5.5
	P4 (0,9;0,5)	4.1	4.1	4.1	3.4
	P5 (0,5;0,5)	2.8	2.8	2.8	2.3
	P6 (0,5;0,25)	1.8	1.8	1.8	1.5
	P7 (0,25;0,25)	1.3	1.3	1.3	1.0

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

EAC
TC RU C-BR.AA87.B.00977/22
2Ex ec IIC T3 Gc X
Ex tc IIIB T125°C Dc X
OOO «НАИО ЛЦБЭ»
IECEX
IECEX BAS 10.0099X
Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

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	140 °C
2	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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