

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code :

12861356

Catalog # :

E01818ET3YAX180MF3-W

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

Frame : 180M
Output : 18.5 kW (25 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 36.1/20.8 A
L. R. Amperes : 253/145 A
LRC : 7.0
No load current : 14.2/8.18 A
Rated speed : 1473 rpm
Slip : 1.80 %
Rated torque : 88.5 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 4.13 sq.ft.lb
Design : N

Locked rotor time : 14s (cold) 8s (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 : 61.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 418 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.0	91.6	92.2	91.8	92.6	92.6	92.6	92.6
	91.6	91.3	91.8	92.0	92.6	93.0	92.6	93.6
Power Factor	0.44	0.39	0.69	0.64	0.79	0.76	0.84	0.82
	0.36	0.38	0.61	0.62	0.73	0.74	0.80	0.81

Foundation loads
Max. traction : 1006 lb
Max. compression : 1425 lb

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

Losses (%)	P1 (0,9;1,0)	7.8	7.8	7.8	6.7
	P2 (0,5;1,0)	6.7	6.7	6.7	5.8
	P3 (0,25;1,0)	6.2	6.2	6.2	5.3
	P4 (0,9;0,5)	3.6	3.6	3.6	3.1
	P5 (0,5;0,5)	2.6	2.6	2.6	2.2
	P6 (0,5;0,25)	1.7	1.7	1.7	1.4
	P7 (0,25;0,25)	1.2	1.2	1.2	1.0

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	11 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
Baseefa 10ATEX0192X
BAS21UKEX0284X
II 3G Ex ec IIC T3 Gc
II 3D Ex tc IIIB T125°C Dc
EAC
TC RU C-BR.AA87.B.00977/22
2Ex ec IIC T3 Gc X
Ex tc IIIB T125°C Dc X
OOO «НАННО ЛСВЭ»
IECEX

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

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Customer :

IECEX BAS 10.0099X
Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

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

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