

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861111

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

Catalog # : E00536ET3YAX132SF3-W

Frame : 132S
Output : 5.5 kW (7.5 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 10.8/6.22 A
L. R. Amperes : 85.3/49.1 A
LRC : 7.9
No load current : 3.70/2.13 A
Rated speed : 2935 rpm
Slip : 2.17 %
Rated torque : 13.2 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.4269 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 : 136 lb

Output	25%		50%		75%		100%	
Efficiency (%)	87.1	86.0	87.6	86.9	88.9	88.7	89.2	89.4
	85.0	82.8	86.1	84.7	88.3	87.6	89.2	89.5
Power Factor	0.48	0.43	0.71	0.66	0.82	0.78	0.87	0.84
	0.39	0.42	0.61	0.65	0.74	0.77	0.81	0.83

Foundation loads
Max. traction : 166 lb
Max. compression : 302 lb

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

Losses (%)	P1 (0,9;1,0)	12.0	11.7	12.0	11.6
	P2 (0,5;1,0)	10.4	10.1	10.4	10.0
	P3 (0,25;1,0)	9.0	8.8	9.0	8.7
	P4 (0,9;0,5)	5.7	5.5	5.7	5.5
	P5 (0,5;0,5)	3.8	3.7	3.8	3.7
	P6 (0,5;0,25)	2.4	2.4	2.4	2.3
	P7 (0,25;0,25)	1.6	1.6	1.6	1.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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
ООО «НАННО ЛСБЭ»
IECEX
IECEX BAS 10.0099X

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Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

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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

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