

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861408

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

Catalog # : E02218ET3YAX180LF3-W

Frame : 180L
Output : 22 kW (30 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 42.3/24.4 A
L. R. Amperes : 309/178 A
LRC : 7.3
No load current : 17.0/9.79 A
Rated speed : 1475 rpm
Slip : 1.67 %
Rated torque : 105 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 310 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 4.98 sq.ft.lb
Design : N

Locked rotor time : 19s (cold) 11s (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 : 450 lb

Output	50%	75%	100%
Efficiency (%)	92.5 92.3	92.8 93.0	93.0 93.2
	91.9 92.1	92.8 93.2	93.0 93.6
Power Factor	0.70 0.66	0.81 0.77	0.85 0.83
	0.62 0.64	0.74 0.76	0.81 0.82

Foundation loads
Max. traction : 1291 lb
Max. compression : 1753 lb

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

Losses (%)	P1 (0,9;1,0)	7.2	7.0	7.2	6.6
	P2 (0,5;1,0)	6.2	6.0	6.2	5.6
	P3 (0,25;1,0)	6.1	5.9	6.1	5.6
	P4 (0,9;0,5)	3.4	3.3	3.4	3.1
	P5 (0,5;0,5)	2.4	2.4	2.4	2.2
	P6 (0,5;0,25)	1.6	1.5	1.6	1.4
	P7 (0,25;0,25)	1.1	1.1	1.1	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
ООО «НАННО ЛСБЭ»
IECEX
IECEX BAS 10.0099X

Rev.	Changes Summary	Performed	Checked	Date
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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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