

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 13526272

Catalog # : E02236ET3YAX180MF3-W

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

Frame : 180M
Output : 22 kW (30 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 41.4/23.8 A
L. R. Amperes : 344/198 A
LRC : 8.3
No load current : 14.0/8.06 A
Rated speed : 2955 rpm
Slip : 1.50 %
Rated torque : 52.5 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 2.30 sq.ft.lb
Design : N

Locked rotor time : 16s (cold) 9s (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 : 67.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 368 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.0	91.2	92.2	91.5	92.7	92.5	92.7	92.7
	91.3		91.6		92.2		92.4	
Power Factor	0.49	0.41	0.74	0.66	0.83	0.78	0.87	0.84
	0.43		0.68		0.79		0.84	

Foundation loads
Max. traction : 518 lb
Max. compression : 887 lb

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

Losses (%)	P1 (0,9;1,0)	7.6	7.6	7.9
	P2 (0,5;1,0)	6.3	6.3	6.6
	P3 (0,25;1,0)	5.7	5.7	6.0
	P4 (0,9;0,5)	3.7	3.7	3.9
	P5 (0,5;0,5)	2.4	2.4	2.5
	P6 (0,5;0,25)	1.5	1.5	1.6
	P7 (0,25;0,25)	1.0	1.0	1.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	17000 h	20000 h
Lubricant amount	:	18 g	11 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
Baseefa 10ATEX0192X
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 «НАИО 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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