

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861530

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

Catalog # : E01112ET3YAX160LF3-W

Frame : 160L
Output : 11 kW (15 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 23.1/13.3 A
L. R. Amperes : 157/90.4 A
LRC : 6.8
No load current : 12.5/7.20 A
Rated speed : 975 rpm
Slip : 2.50 %
Rated torque : 79.5 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 270 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 4.58 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 : 57.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 330 lb

Output	25%		50%		75%		100%	
Efficiency (%)	89.5	88.4	89.7	89.0	90.3	90.1	90.3	90.5
	87.4	87.3	88.3	88.6	89.8	90.4	90.5	91.7
Power Factor	0.35	0.31	0.60	0.56	0.73	0.70	0.80	0.77
	0.29	0.30	0.53	0.54	0.67	0.67	0.74	0.75

Foundation loads
Max. traction : 997 lb
Max. compression : 1331 lb

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

Losses (%)	P1 (0,9;1,0)	10.5	10.3	10.3	8.9
	P2 (0,5;1,0)	9.4	9.2	9.2	7.9
	P3 (0,25;1,0)	9.1	8.9	8.9	7.7
	P4 (0,9;0,5)	5.3	5.2	5.2	4.5
	P5 (0,5;0,5)	4.0	3.9	3.9	3.3
	P6 (0,5;0,25)	2.8	2.7	2.7	2.4
	P7 (0,25;0,25)	2.1	2.0	2.0	1.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 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 «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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