

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 14352808

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

Catalog # : E16012ET3YAX355MLF3W

Frame : 355M/L
Output : 160 kW (220 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 313/180 A
L. R. Amperes : 1565/901 A
LRC : 5.0
No load current : 107/61.6 A
Rated speed : 992 rpm
Slip : 0.80 %
Rated torque : 1140 ft.lb
Locked rotor torque : 160 %
Breakdown torque : 190 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 209 sq.ft.lb
Design : N

Locked rotor time : 59s (cold) 33s (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 : 73.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 3309 lb

Output	25%		50%		75%		100%	
Efficiency (%)	94.9	94.6	95.0	94.9	95.8	95.6	95.8	95.8
	94.9	94.5	95.0	94.6	95.8	95.8	95.8	95.8
Power Factor	0.45	0.41	0.67	0.63	0.77	0.74	0.81	0.79
	0.38	0.39	0.60	0.61	0.72	0.72	0.77	0.78

Foundation loads
Max. traction : 2871 lb
Max. compression : 6179 lb

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

Losses (%)	P1 (0,9;1,0)	4.5	4.5	4.5	4.5
	P2 (0,5;1,0)	3.5	3.5	3.5	3.5
	P3 (0,25;1,0)	3.0	3.0	3.0	3.0
	P4 (0,9;0,5)	2.4	2.4	2.4	2.4
	P5 (0,5;0,5)	1.6	1.6	1.6	1.6
	P6 (0,5;0,25)	1.2	1.2	1.2	1.2
	P7 (0,25;0,25)	0.7	0.7	0.7	0.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6322 C3	6319 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	13000 h	16000 h
Lubricant amount	:	60 g	45 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

Rev.	Changes Summary	Performed	Checked	Date
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Customer :

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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