

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12430783

Area classification : ZONA 1, GRUPO IIB, T4 (135 °C)

Catalog # : E01512XT3YAX180LF3-W

Frame : 180M/L
Output : 15 kW (20 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 29.1/16.8 A
L. R. Amperes : 224/129 A
LRC : 7.7
No load current : 12.0/6.91 A
Rated speed : 975 rpm
Slip : 2.50 %
Rated torque : 108 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 7.05 sq.ft.lb
Design : N

Locked rotor time : 14s (cold) 8s (hot)
Temperature rise : 80 K
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP56
Cooling method : IC411 - TEFC
Mounting : B3T
Rotation¹ : Both (CW and CCW)
Noise level² : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 574 lb

Output	25%		50%		75%		100%	
Efficiency (%)	90.3	91.4	90.7	91.5	91.0	91.5	91.2	91.4
	91.1	91.6	91.3	91.4	91.6	92.1	91.6	91.7
Power Factor	0.43	0.39	0.68	0.65	0.80	0.77	0.86	0.84
	0.37	0.37	0.62	0.62	0.75	0.75	0.82	0.82

Foundation loads
Max. traction : 1193 lb
Max. compression : 1778 lb

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

Losses (%)	P1 (0,9;1,0)	9.4	9.2	9.0	8.8
	P2 (0,5;1,0)	8.6	8.4	8.1	8.0
	P3 (0,25;1,0)	8.4	8.2	8.0	7.9
	P4 (0,9;0,5)	4.0	3.9	3.8	3.8
	P5 (0,5;0,5)	3.0	3.0	2.9	2.8
	P6 (0,5;0,25)	1.8	1.8	1.7	1.7
	P7 (0,25;0,25)	1.4	1.3	1.3	1.3

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 C3	6309 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	13 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
INERIS 22ATEX0025X
CML 23UKEX1256X
II 2G Ex db IIB T4 Gb
EAC
EAЭC RU C-BR.AA87.B.00379/20
1Ex db IIB T4 Gb X
ООО «НАННО ЦСВЭ»
IECEX
IECEX INE 22.0044X
Ex db IIB T4 Gb

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	27/03/2024			
			Page 1 / 3	Revision

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Customer :

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 3	Revision
Checked by					
Date	27/03/2024				

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	150 °C

Space heater information

Voltage: 200 - 240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 3 / 3	Revision
Checked by					
Date	27/03/2024				