

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12430975

Catalog # : E07536XT3YAX280SMF3W

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

Frame : 280S/M
Output : 75 kW (100 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 135/77.7 A
L. R. Amperes : 878/505 A
LRC : 6.5
No load current : 37.4/21.5 A
Rated speed : 2975 rpm
Slip : 0.83 %
Rated torque : 178 ft.lb
Locked rotor torque : 170 %
Breakdown torque : 280 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 22.3 sq.ft.lb
Design : N

Locked rotor time : 64s (cold) 36s (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 : 77.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 2043 lb

Output	25%		50%		75%		100%	
Efficiency (%)	93.8	93.5	93.9	93.7	94.7	94.8	94.7	94.9
	93.2	91.2	93.5	91.8	94.7	93.6	94.9	94.1
Power Factor	0.57	0.53	0.81	0.78	0.87	0.85	0.89	0.88
	0.50	0.51	0.76	0.77	0.84	0.85	0.87	0.88

Foundation loads
Max. traction : 316 lb
Max. compression : 2361 lb

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

Losses (%)	P1 (0,9;1,0)	5.1	4.9	4.9	5.8
	P2 (0,5;1,0)	3.5	3.4	3.4	3.9
	P3 (0,25;1,0)	3.0	2.9	2.9	3.4
	P4 (0,9;0,5)	3.1	2.9	2.9	3.4
	P5 (0,5;0,5)	1.5	1.5	1.5	1.7
	P6 (0,5;0,25)	1.1	1.0	1.0	1.2
	P7 (0,25;0,25)	0.6	0.5	0.5	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	Viton Oil Seal	Viton Oil Seal
Lubrication interval	:	5000 h	5000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
INERIS 16ATEX0036X
CML 21UKEX1315X
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 16.0044X
Ex db IIB T4 Gb

Rev.	Changes Summary	Performed	Checked	Date
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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

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