

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : QUANTUM CONTROLS

Product line : W22 - IE4 Super Premium Efficiency
(Multivoltage)

Frame : 315L	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : B5T
Duty cycle : S1	Rotation ¹ : Both
Ambient temperature : -20 °C to +40 °C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l	Approx. weight ³ : 1225 kg
Protection degree : IP55	Moment of inertia (J) : 3.28 kgm ²
Design : NE	

Output	200 kW	200 kW	200 kW	200 kW
Poles	2	2	2	2
Frequency	50 Hz	50 Hz	50 Hz	60 Hz
Rated voltage	380/660 V	400/690 V	415 V	460 V
Rated current	354/204 A	340/197 A	331 A	297 A
L. R. Amperes	2654/1528 A	2923/1695 A	2983 A	2728 A
LRC	7.5	8.6	9.0	9.2 x Code K
No load current	97.0/55.8 A	105/60.9 A	111 A	100 A
Rated speed	2981 rpm	2983 rpm	2985 rpm	3585 rpm
Slip	0.63 %	0.57 %	0.50 %	0.42 %
Rated torque	641 Nm	640 Nm	640 Nm	533 Nm
Locked rotor torque	260 %	280 %	300 %	320 %
Pull up torque	220 %	235 %	255 %	270 %
Breakdown torque	290 %	330 %	360 %	360 %
Service factor	1.00	1.00	1.00	1.00
Noise level ²	78.0 dB(A)	78.0 dB(A)	78.0 dB(A)	82.0 dB(A)
Locked rotor time (hot)	30 s	27 s	25 s	29 s
Locked rotor time (cold)	54 s	49 s	45 s	52 s
Efficiency (%)	50%	95.5	95.4	95.3
	75%	96.2	96.2	96.2
	100%	96.5	96.5	96.5
Power Factor	50%	0.80	0.77	0.75
	75%	0.87	0.85	0.83
	100%	0.89	0.88	0.87

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

Losses (%)	P1(0,9;1,0)	3.8	3.8	3.8	4.2
	P2(0,5;1,0)	2.8	2.8	2.8	3.1
	P3(0,25;1,0)	2.4	2.4	2.4	2.6
	P4(0,9;0,5)	2.3	2.3	2.3	2.5
	P5(0,5;0,5)	1.4	1.4	1.4	1.5
	P6(0,5;0,25)	1.0	1.0	1.0	1.1
	P7(0,25;0,25)	0.6	0.6	0.6	0.6

Bearing type	Drive end 6314-C3	Non drive end 6314-C3	Foundation loads
Lubrication interval	5000 h	5000 h	Max. traction : 12138 N
Lubricant amount	27 g	27 g	Max. compression : 24156 N
Lubricant type	MOBIL POLYREX EM		Load type : -
			Load torque : -
			Load inertia (J=GD ² /4) : -

Notes
See notes on page 2.

Rev.	Changes Summary	Rev.	Checked	Date
Performed by	ghodgetts	1751262059		
Checked by	AUTOMATICO	Page	Rev.	
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Thermal protection					
ID	Application	Type	Quantity	Sensing Temperature	
1	Winding	PT100 - 2 wires	1 x Phase	-	
2	Winding	Thermistor - 2 wires	1 x Phase	155°C	

Space heater information
Voltage: 110-127/200-240 V
Output:

Notes

Standards	Specification	: IEC 60034-1	Vibration	: IEC 60034-14
	Test	: IEC 60034-2	Tolerance	: IEC 60034-1
	Noise	: IEC 60034-9		

This revision replaces and cancel the previous one, which must be eliminated.

(1) Looking the motor from the shaft end.

(2) Measured at 1m and with tolerance of +3dB(A).

(3) Approximate weight, subject to be changed after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

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