DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Sales document	: 50172013-000010

Product line	: Special Motor
Product code	: 14770579

Frame	: 447/9T
Output	: 400 HP (300 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 363 A
L. R. Amperes	: 2287 A
LRC	: 6.3 Code G
No load current	: 90.1 A
Rated speed	: 1775 rpm
Slip	: 1.39 %
Rated torque	: 164 kgfm
Locked rotor torque	: 200 %
Pull up torque	: 170 %
Breakdown torque	: 200 %
Insulation class	: F
Service factor	: 1.00
Moment of inertia (J)	: 3.69 kgm²

Locked rotor time	: 12 s (hot) 22 s (cold)
Temperature rise[4]	: 105 K
Duty cycle	: S1
Ambient temperature	: -20 °C to +40 °C
Altitude	: 1000 m.a.s.l
Protection degree	: IP23
Cooling method	: IC01 - ODP
Mounting	: B3R(D)
Rotation[1]	: Both
Noise level[2]	: 77 dB(A)
Starting method	: Direct On Line
Coupling	: Direct
Approx. weight[3]	: 1052 kg
Color	: RAL 5009
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	95.0	95.4	95.4
Power Factor	0.36	0.81	0.85	0.87

Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -

	Drive end	Non drive end
Bearing type	6319-C3	6314-C3
Lubrication interval	4500 h	4500 h
Lubricant amount	45 g	27 g
Lubricant type	MOBIL POLYREX EM	

Notes:
See notes on page 2.

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
0.00	0.00	0.00	0.00	0.00	0.00	0.00

Standards

Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
Noise	: MG1 - Part 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 +0dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

Rev.	Changes Summary	Performed	Checked	Date
				21/02/2019

Performed by	yasmim	32645/2019	
Checked by	altierird	Page	Revision
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 Wires	1 x Phase	155 °C

Notes:
W40 High Efficiency

UL/Fire Pump

Standards

Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
Noise	: MG1 - Part 9		

Rev.	Changes Summary	Performed	Checked	Date
				21/02/2019

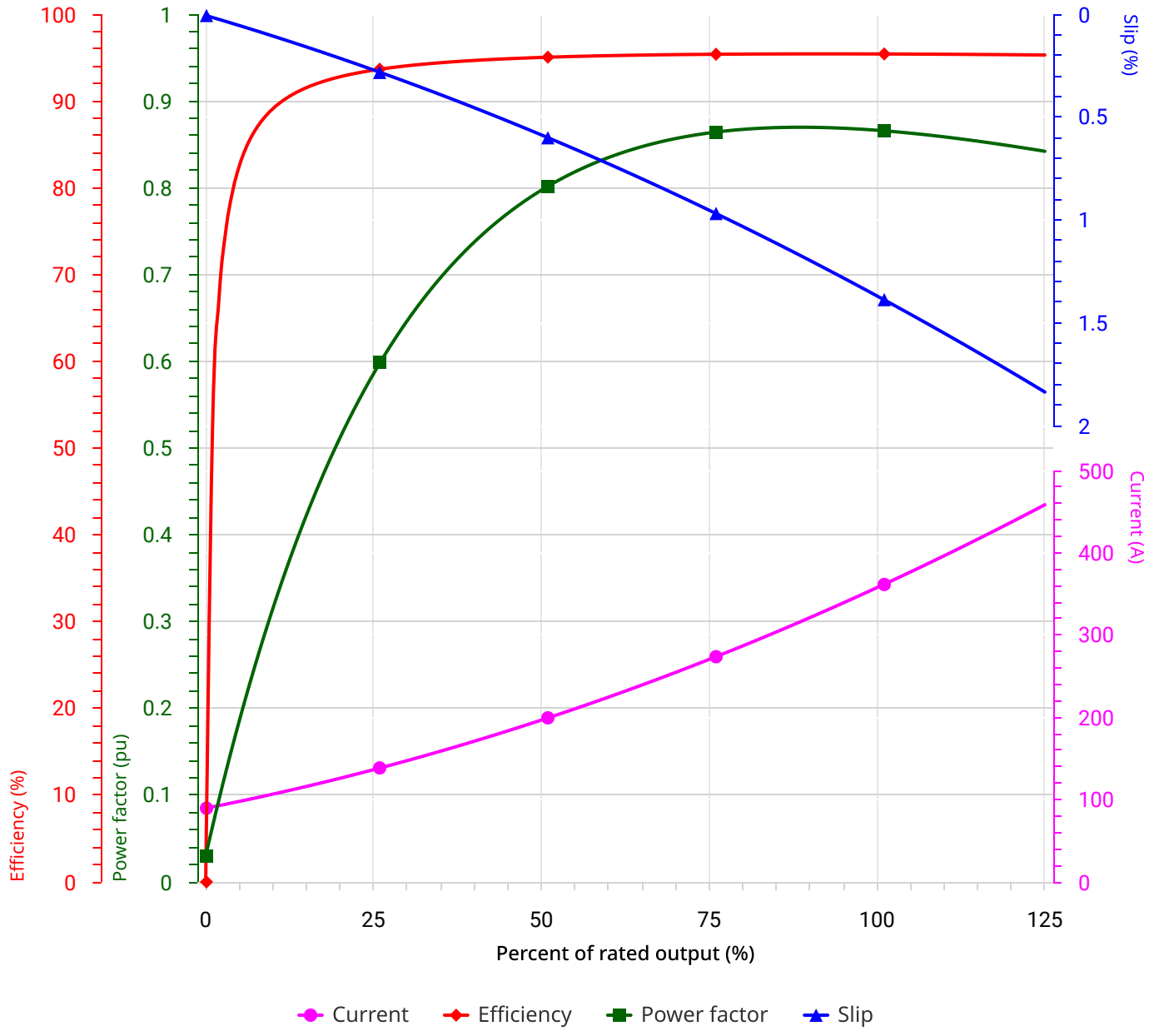
Performed by	yasmim		32645/2019	
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Sales document	: 50172013-000010
Product line	: Special Motor
Product code	: 14770579



Performance	: 400 HP (300 kW) 575V 60Hz 4P 447/9T

Rated current	: 363 A	Moment of inertia (J)	: 3.69 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 164 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1775 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
				21/02/2019

Performed by	yasmim		32645/2019	
Checked by	altierird		Page	Revision
Date	21/02/2019		3/3	2

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