DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 15440537

Frame	: 254/6T	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 19.8 A	Protection degree	: IP55
L. R. Amperes	: 162 A	Cooling method	: IC411 - TEFC
LRC	: 8.2x(Code K)	Mounting	: F-1
No load current	: 9.20 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1778 rpm	Noise level[2]	: 64.0 dB(A)
Slip	: 1.22 %	Starting method	: Direct On Line
Rated torque	: 8.16 kgfm	Approx. weight[3]	: 168 kg
Locked rotor torque	: 260 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1808 kgm²		
Design	: A		

Output	50%	75%	100%
Efficiency (%)	93.0	93.6	94.1
Power Factor	0.63	0.75	0.81

Foundation loads

Max. traction : 301 kgf

Max. compression : 469 kgf

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)
6.1	4.7	4.2	3.5	2.3	1.7	1.1

		Drive end	Non drive end
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

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 changes 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.

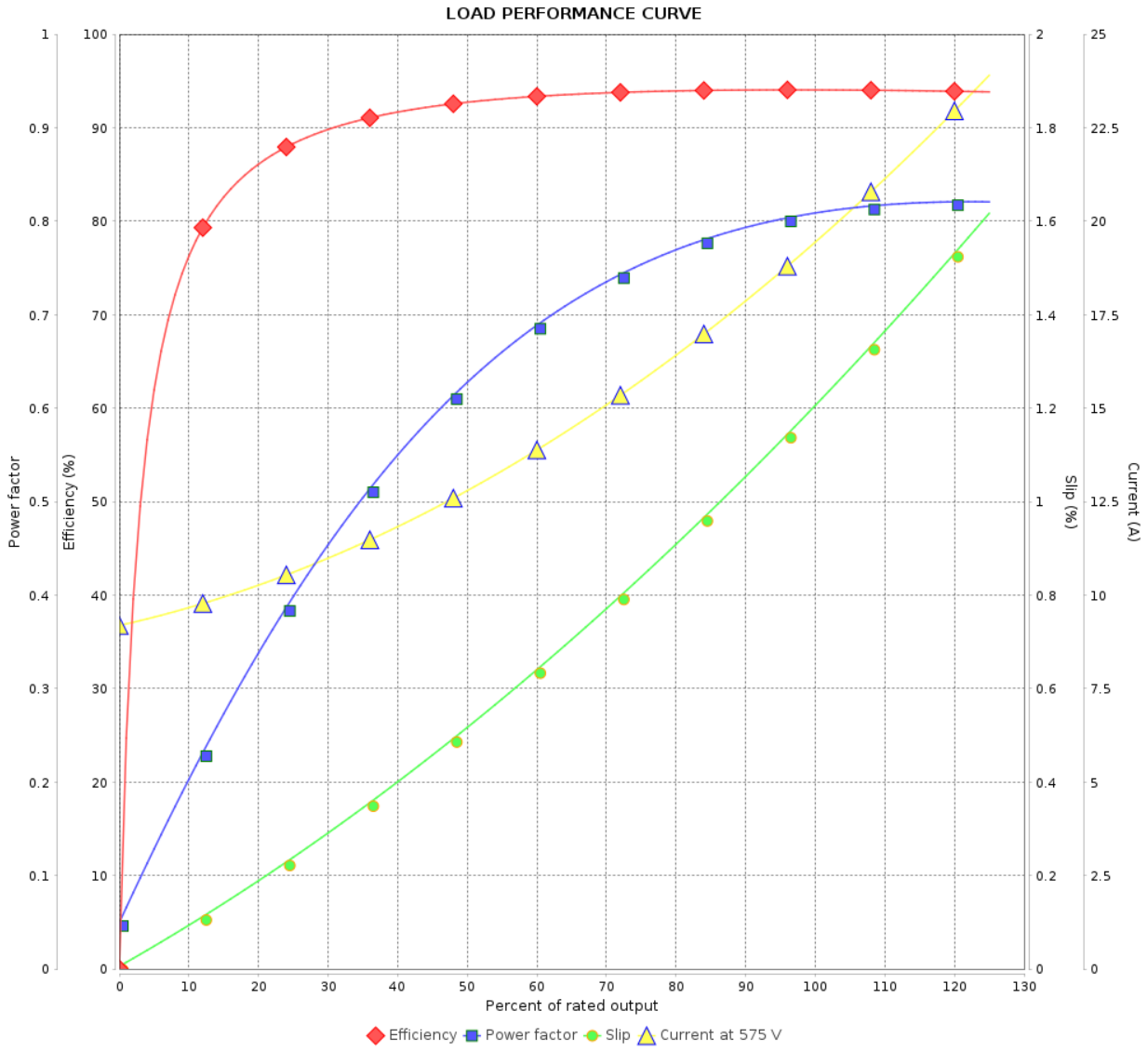
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	16/01/2024		1 / 2	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 Super Premium Efficiency Three-Phase	Product code :	15440537



Performance	: 575 V 60 Hz 4P		
Rated current	: 19.8 A	Moment of inertia (J)	: 0.1808 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 8.16 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1778 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	16/01/2024		2 / 2	