

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Premium Efficiency Three-Phase Product code : 15942864

Frame	: W56J	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: W-6
Duty cycle	: Cont.(S1)	Rotation ¹	: CCW
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 9.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0011 kgm ²

Output [HP]	1	1	1
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	3.00/1.50	3.40-2.94/1.70	1.65
L. R. Amperes [A]	26.4/13.2	22.1-19.1/11.0	12.4
LRC [A]	8.8x(Code M)	6.5x(Code J)	7.5x(Code K)
No load current [A]	1.60/0.798	1.56-1.35/0.781	0.949
Rated speed [RPM]	3435	2770	2815
Slip [%]	4.58	7.67	6.17
Rated torque [kgfm]	0.211	0.262	0.258
Locked rotor torque [%]	360	280	330
Breakdown torque [%]	380	250	310
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	18s (cold) 10s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)
Noise level ²	65.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%		
	50%	74.0	77.8
	75%	77.0	79.2
	100%	78.5	77.8
Power Factor	25%		
	50%	0.63	0.70
	75%	0.75	0.81
	100%	0.80	0.86

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6203 2RS	6202 2RS	Max. traction : 21 kgf
Sealing	: V'Ring	V'Ring	Max. compression : 30 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 3.32A SF 1.00 SFA 3.32A

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				
Date	16/05/2022			

Page 1 / 4
Revision

LOAD PERFORMANCE CURVE

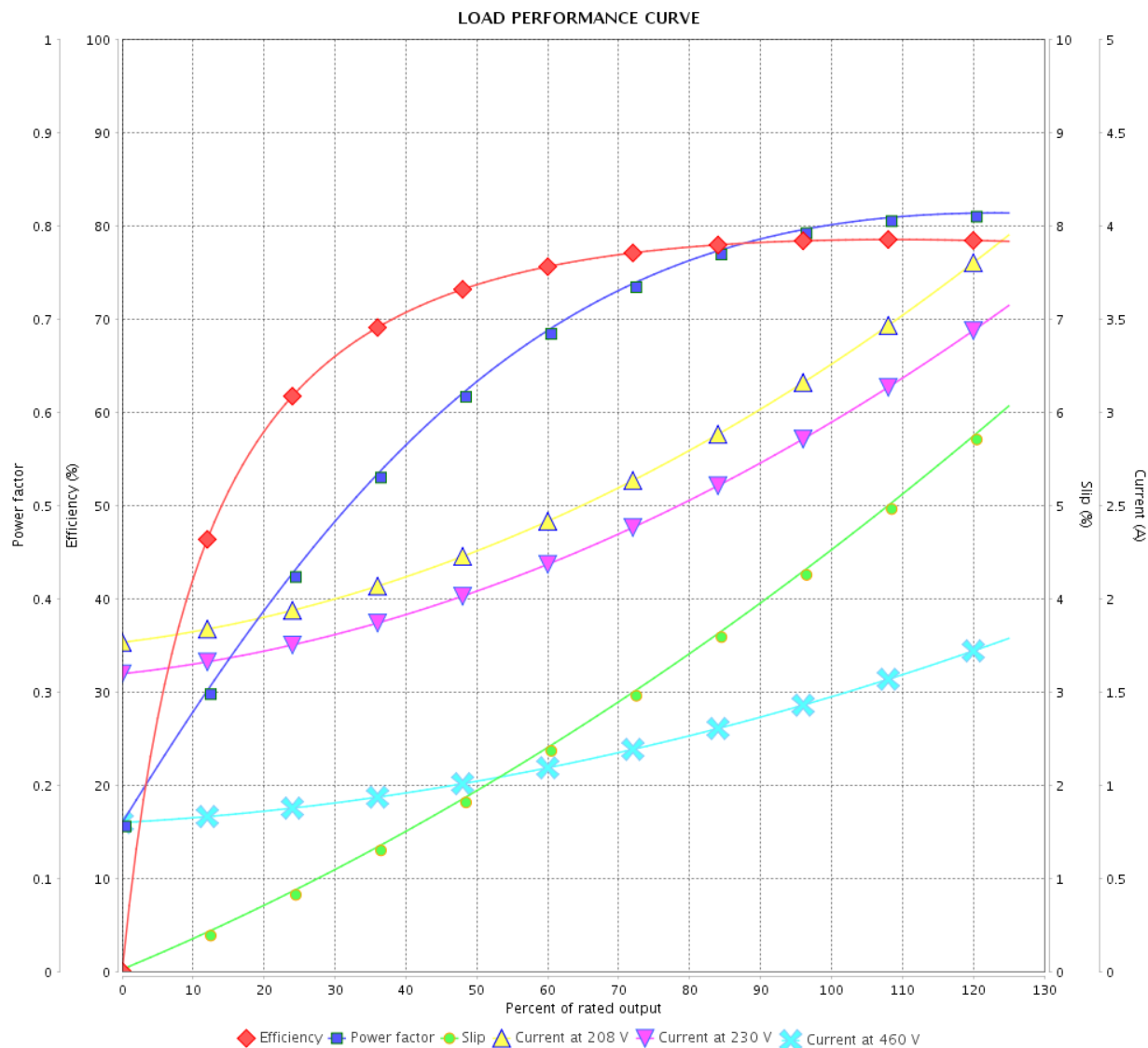
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Premium
Efficiency Three-Phase

Product code : 15942864



Performance : 230/460 V 60 Hz 2P

Rated current : 3.00/1.50 A
 LRC : 8.8
 Rated torque : 0.211 kgfm
 Locked rotor torque : 360 %
 Breakdown torque : 380 %
 Rated speed : 3435 rpm

Moment of inertia (J) : 0.0011 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 4	
Date					

LOAD PERFORMANCE CURVE

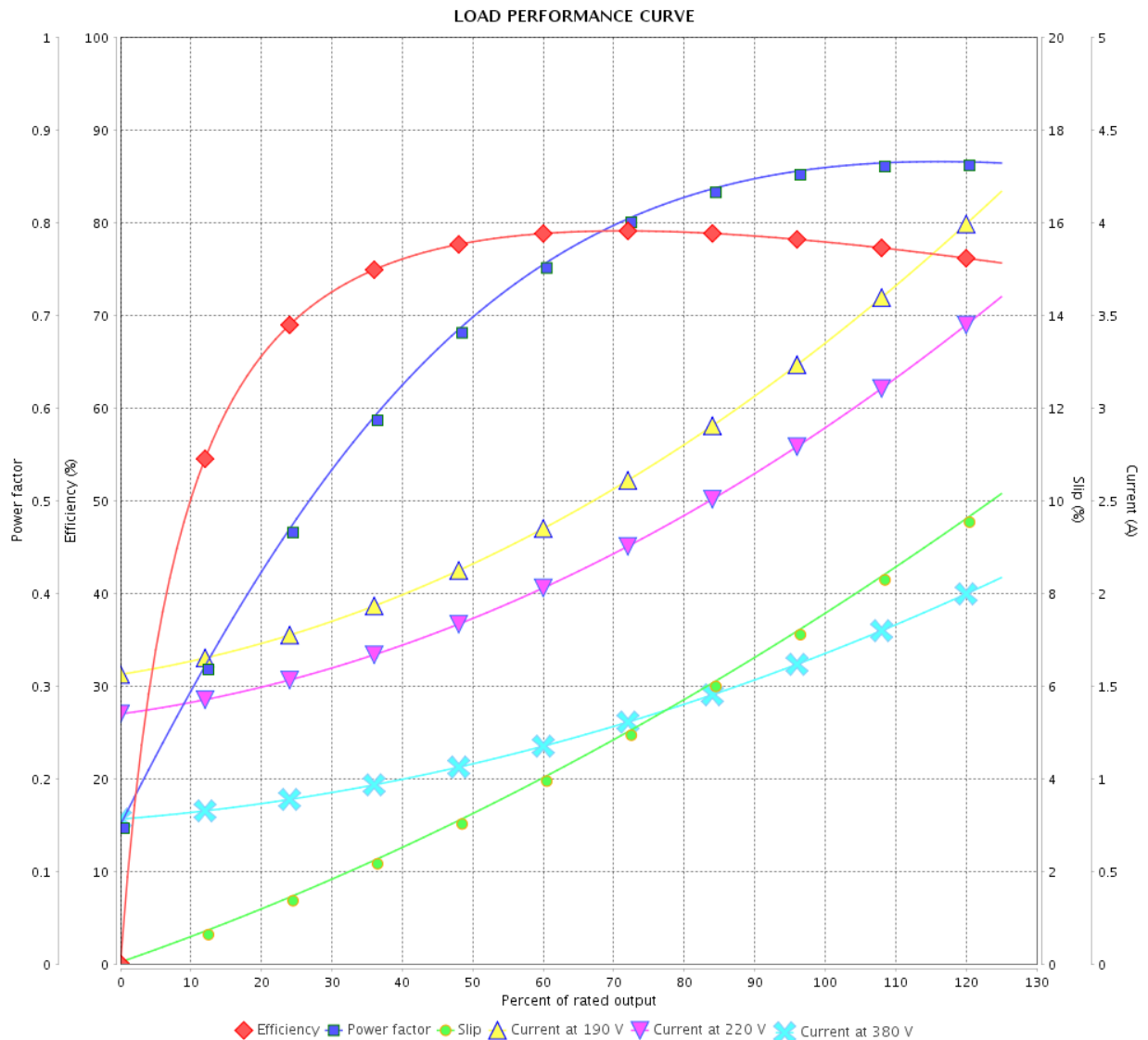
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Premium
Efficiency Three-Phase

Product code : 15942864



Performance : 190-220/380 V 50 Hz 2P

Rated current : 3.40-2.94/1.70 A
LRC : 6.5
Rated torque : 0.262 kgfm
Locked rotor torque : 280 %
Breakdown torque : 250 %
Rated speed : 2770 rpm

Moment of inertia (J) : 0.0011 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 4		
Checked by				
Date	16/05/2022			
		Revision		

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Subject to change without notice

LOAD PERFORMANCE CURVE

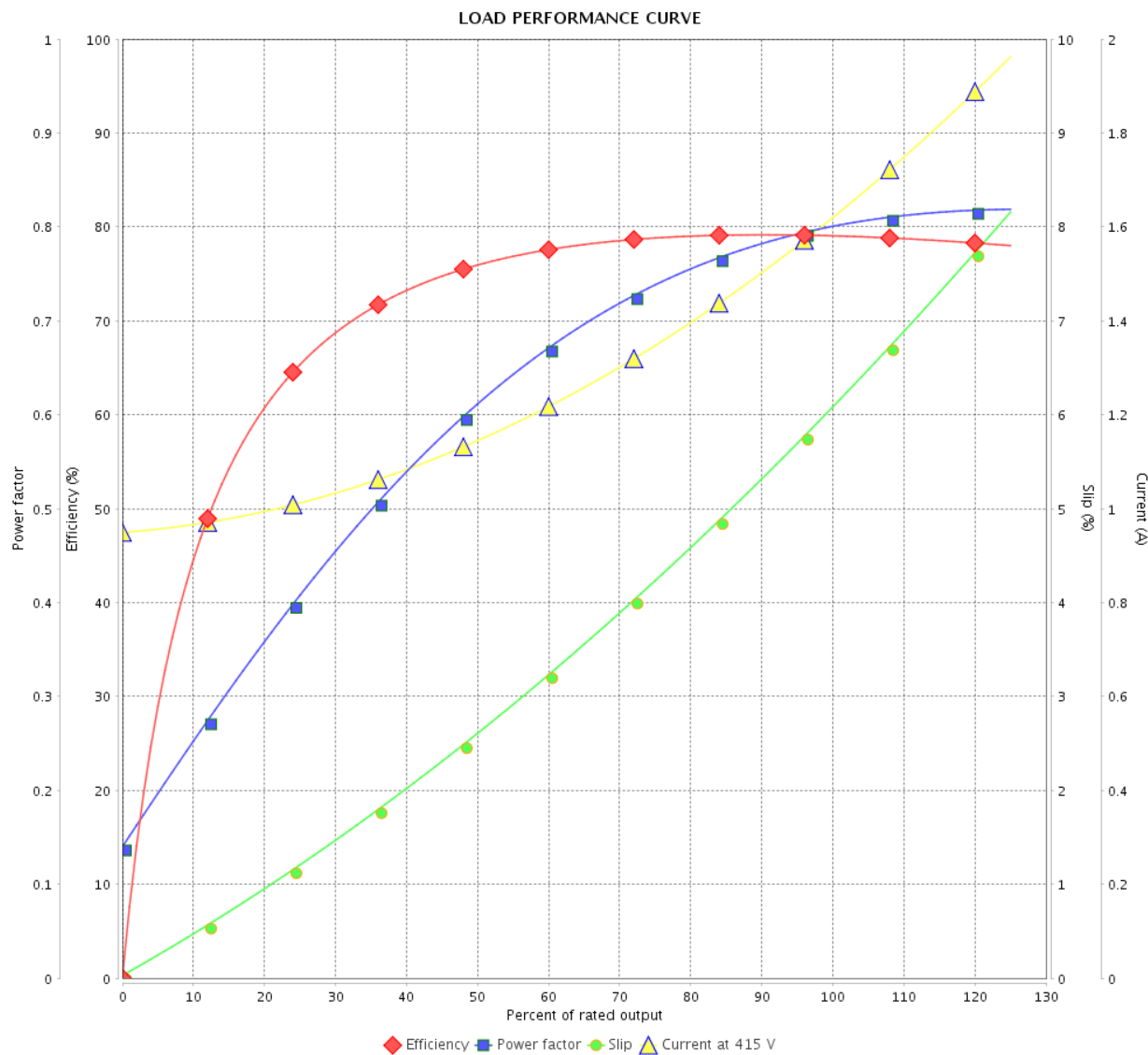
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Premium
Efficiency Three-Phase

Product code : 15942864



Performance : 415 V 50 Hz 2P

Rated current : 1.65 A
LRC : 7.5
Rated torque : 0.258 kgfm
Locked rotor torque : 330 %
Breakdown torque : 310 %
Rated speed : 2815 rpm

Moment of inertia (J) : 0.0011 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 4 / 4Revision		
Checked by				
Date	16/05/2022			

