

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484341

Frame	: 56C	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 15.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0043 kgm ²
Design	: B		

Output [HP]	1.5	1.5	1.5
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	3.74/1.87	4.44/2.22	4.02/2.13
L. R. Amperes [A]	34.0/17.0	32.0/16.0	32.1/17.0
LRC [A]	9.1x(Code L)	7.2x(Code H)	8.0x(Code J)
No load current [A]	1.72/0.859	1.69/0.845	1.72/0.914
Rated speed [RPM]	3520	2895	2905
Slip [%]	2.22	3.50	3.17
Rated torque [kgfm]	0.309	0.376	0.375
Locked rotor torque [%]	229	190	220
Breakdown torque [%]	300	280	310
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	78.4	83.1
	50%	80.0	82.6
	75%	82.5	83.8
	100%	84.0	82.9
Power Factor	25%	0.44	0.49
	50%	0.71	0.77
	75%	0.82	0.87
	100%	0.88	0.91

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6204 ZZ	6202 ZZ	Max. traction	: 30 kgf
Sealing	: V'Ring	Without	Max. compression	: 45 kgf
		Bearing Seal		
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

Notes

USABLE @208V 4.13A SF 1.00 SFA 4.13A

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	11/05/2022			

Page 1 / 4
Revision

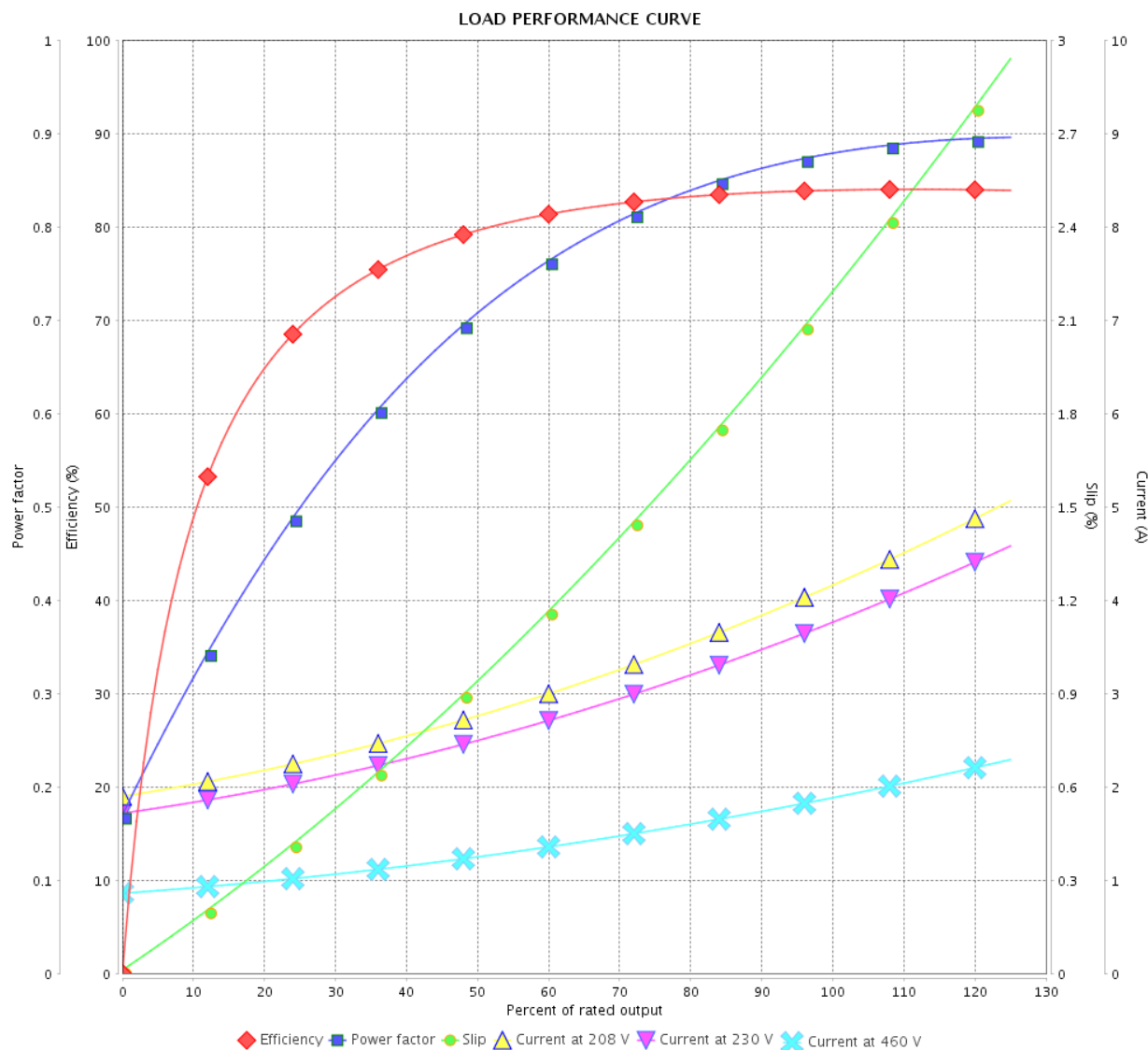
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484341



Performance : 230/460 V 60 Hz 2P

Rated current : 3.74/1.87 A
 LRC : 9.1
 Rated torque : 0.309 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.0043 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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

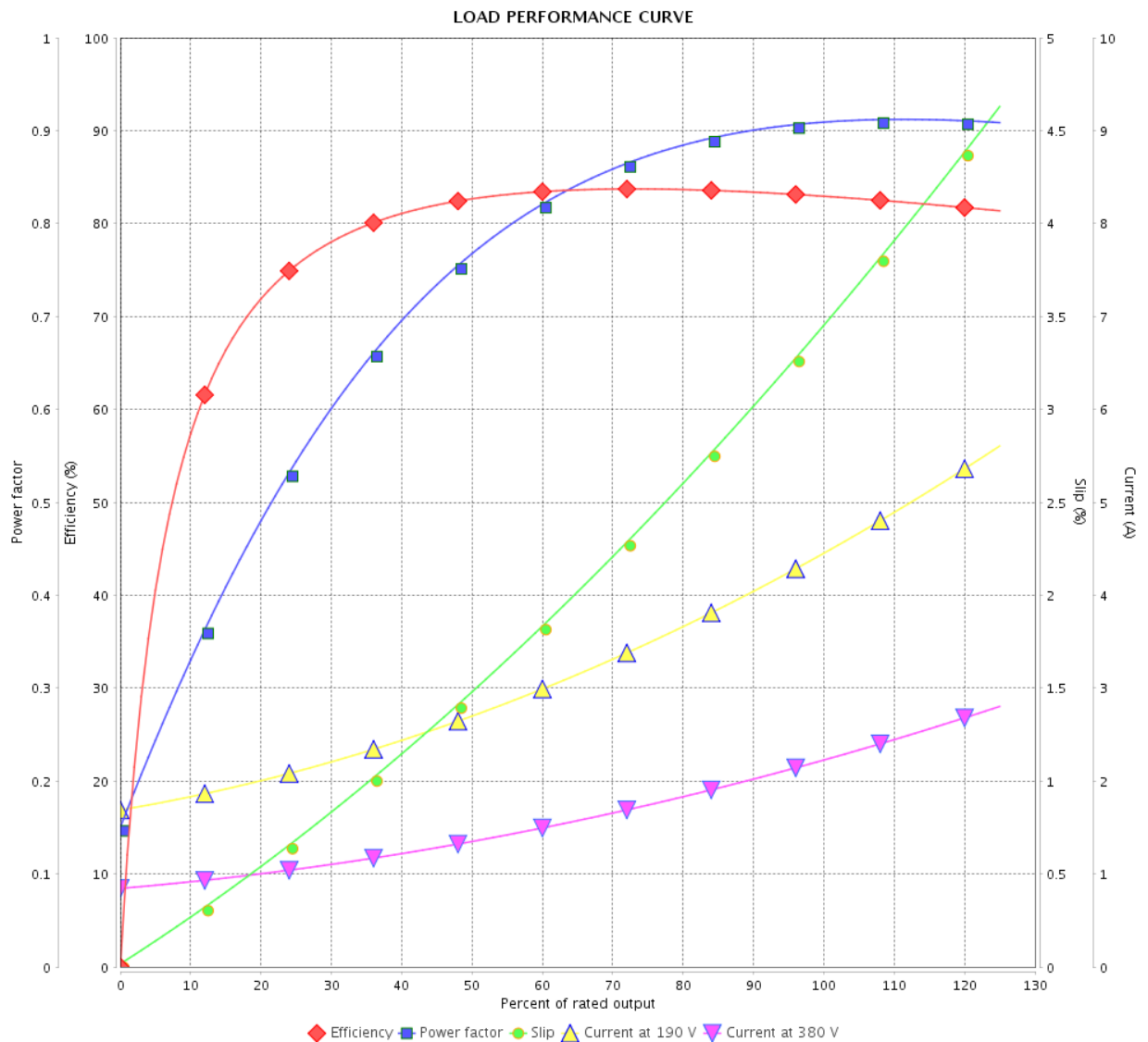
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484341



Performance : 190/380 V 50 Hz 2P

Rated current : 4.44/2.22 A
 LRC : 7.2
 Rated torque : 0.376 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 280 %
 Rated speed : 2895 rpm

Moment of inertia (J) : 0.0043 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 3 / 4	Revision
Checked by					
Date	11/05/2022				

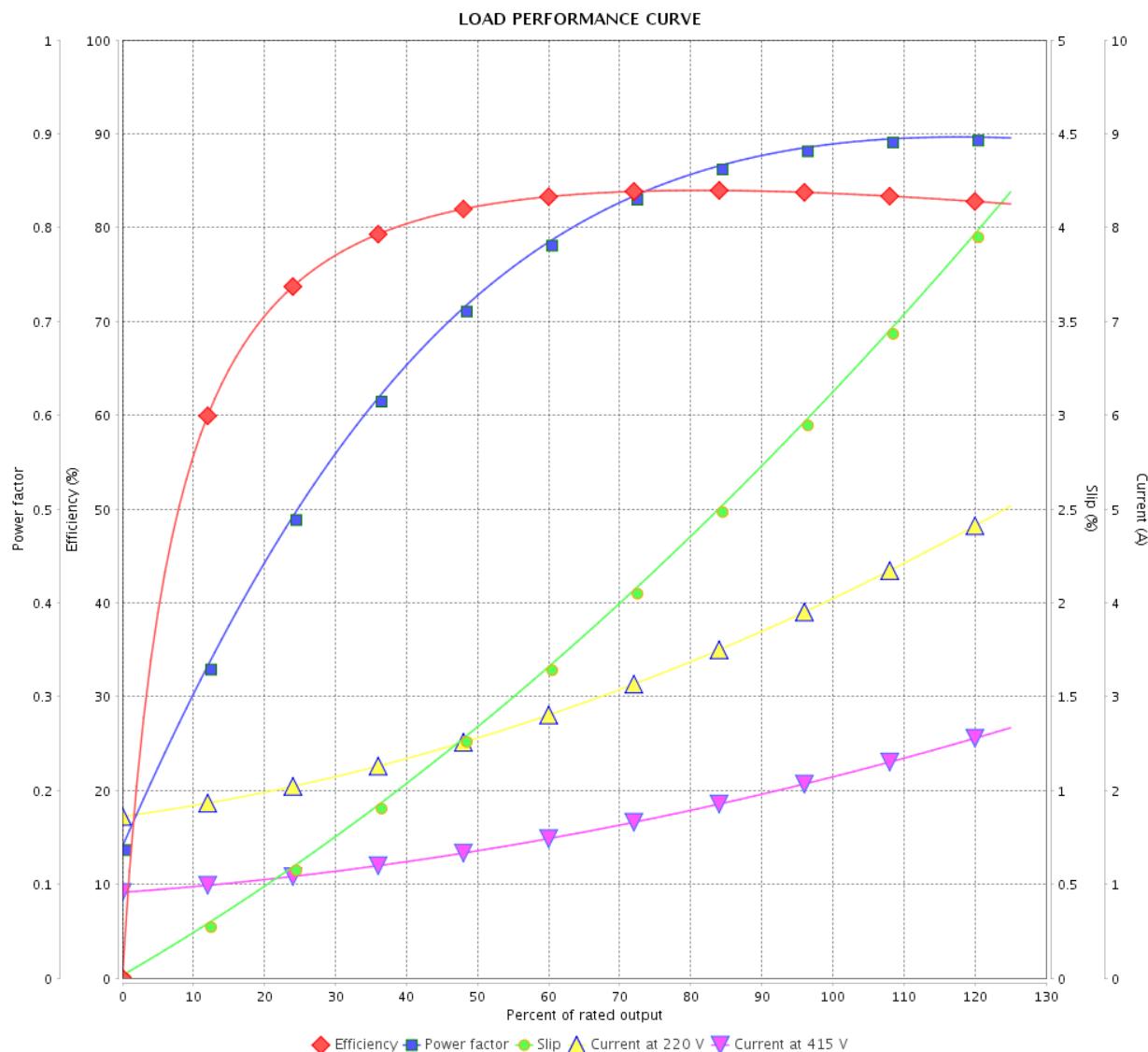
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484341



Performance : 220/415 V 50 Hz 2P

Rated current : 4.02/2.13 A
 LRC : 8.0
 Rated torque : 0.375 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 310 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.0043 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 4 / 4	Revision
Checked by					
Date	11/05/2022				