

# DATA SHEET

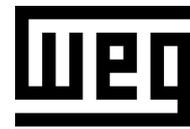


## Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12742225	
Frame	: 254/6TC	Cooling method	: IC411 - TEFC	
Insulation class	: F	Mounting	: F-1	
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 88.2 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0367 kgm <sup>2</sup>	
Design	: B			
Output [HP]	15	12.5	12.5	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	34.8/17.4	35.4/17.7	32.3/17.1	
L. R. Amperes [A]	237/118	244/122	245/130	
LRC [A]	6.8x(Code G)	6.9x(Code H)	7.6x(Code J)	
No load current [A]	13.0/6.50	13.6/6.80	13.9/7.39	
Rated speed [RPM]	3525	2920	2930	
Slip [%]	2.08	2.67	2.33	
Rated torque [kgfm]	3.09	3.11	3.10	
Locked rotor torque [%]	200	190	210	
Breakdown torque [%]	300	290	330	
Service factor	1.15	1.00	1.00	
Temperature rise	80 K	105 K	105 K	
Locked rotor time	25s (cold) 14s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>	75.0 dB(A)	72.0 dB(A)	72.0 dB(A)	
Efficiency (%)	25%	89.2	90.1	
	50%	89.5	90.0	
	75%	91.0	90.7	
	100%	91.0	90.3	
Power Factor	25%	0.47	0.43	
	50%	0.73	0.70	
	75%	0.83	0.81	
	100%	0.87	0.86	
Bearing type	: <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 6208 Z C3	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 116 kgf	
Lubrication interval	: 15797 h 20000 h	Max. compression	: 204 kgf	
Lubricant amount	: 13 g 8 g			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 38.5A SF 1.00 SFA 38.5A				
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	13/05/2022		1 / 4	

# LOAD PERFORMANCE CURVE

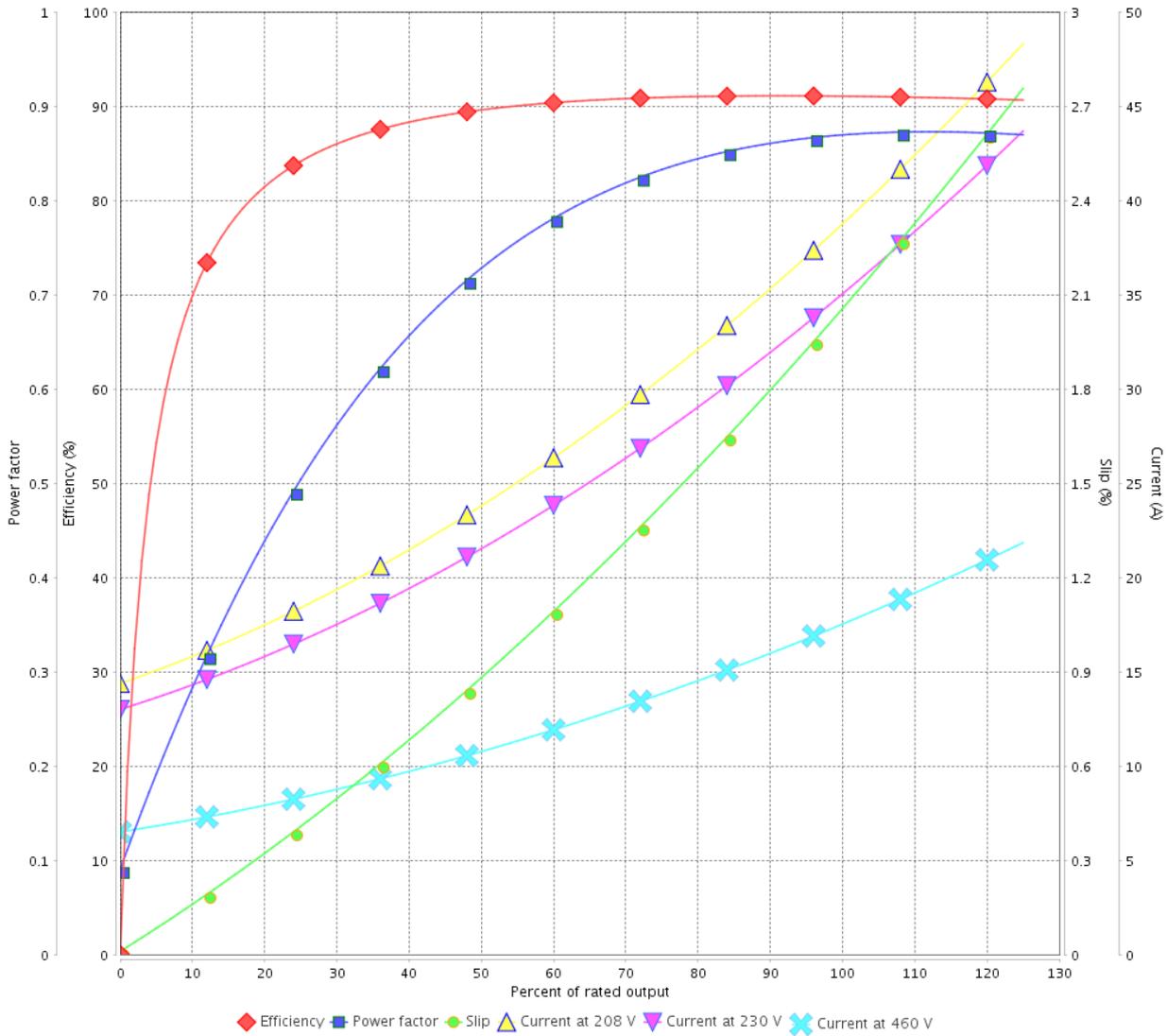
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12742225

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 34.8/17.4 A  
 LRC : 6.8  
 Rated torque : 3.09 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 300 %  
 Rated speed : 3525 rpm

Moment of inertia (J) : 0.0367 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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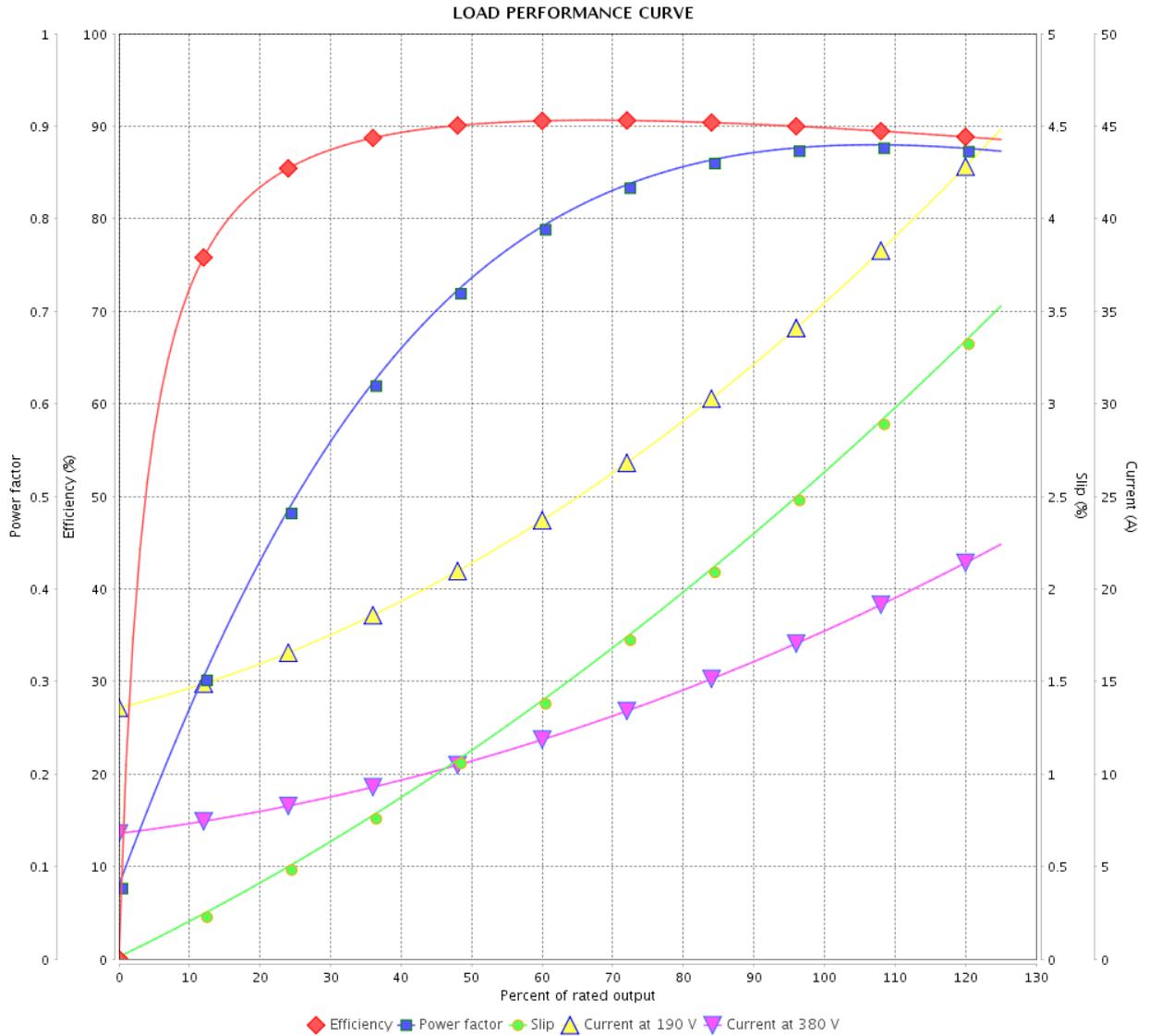
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12742225



Performance : 190/380 V 50 Hz 2P

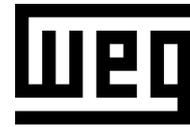
Rated current : 35.4/17.7 A  
 LRC : 6.9  
 Rated torque : 3.11 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 290 %  
 Rated speed : 2920 rpm

Moment of inertia (J) : 0.0367 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : B

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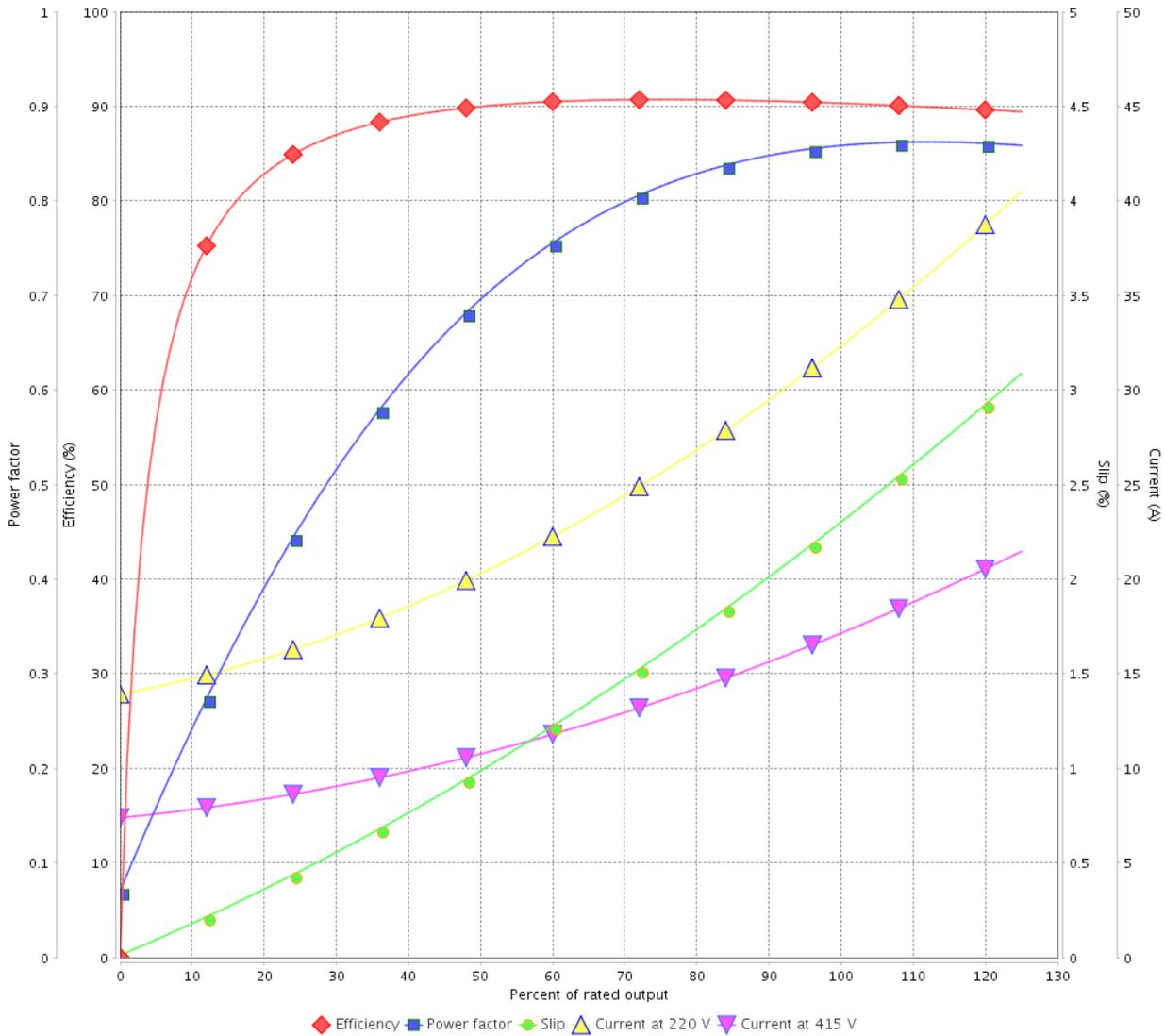
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12742225

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 2P

Rated current : 32.3/17.1 A  
 LRC : 7.6  
 Rated torque : 3.10 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 330 %  
 Rated speed : 2930 rpm

Moment of inertia (J) : 0.0367 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : B

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