

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 15187144			
Frame : 444/5T	Insulation class : F	Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Altitude : 1000 m.a.s.l.	
Protection degree : IP23	Design : B	Cooling method : IC01 - ODP	Mounting : F-1	Rotation <sup>1</sup> : Both (CW and CCW)	
		Starting method : Direct On Line	Approx. weight <sup>3</sup> : 696 kg	Moment of inertia (J) : 3.33 kgm <sup>2</sup>	
Output [HP]	150	125	125	125	
Poles	6	6	6	6	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	366/183	183	175	176	
L. R. Amperes [A]	2342/1171	1208	1173	1250	
LRC [A]	6.4x(Code G)	6.6x(Code H)	6.7x(Code H)	7.1x(Code J)	
No load current [A]	172/86.0	76.3	93.1	100	
Rated speed [RPM]	1188	985	990	990	
Slip [%]	1.00	1.50	1.00	1.00	
Rated torque [kgfm]	91.6	92.1	91.6	91.6	
Locked rotor torque [%]	210	220	240	270	
Breakdown torque [%]	260	250	280	310	
Service factor	1.25	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	19s (cold) 11s (hot)	16s (cold) 9s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	
Noise level <sup>2</sup>	69.0 dB(A)				
Efficiency (%)	25%				
	50%	94.5	94.2	94.3	
	75%	95.0	94.6	94.9	
	100%	95.4	94.6	94.9	
Power Factor	25%				
	50%	0.62	0.60	0.58	
	75%	0.73	0.73	0.71	
	100%	0.79	0.79	0.78	
Bearing type	: Drive end : 6319 C3	: Non drive end : 6314 C3	Foundation loads		
Sealing	: Without	: Without	Max. traction	: 2136 kgf	
	: Bearing Seal	: Bearing Seal	Max. compression	: 2833 kgf	
Lubrication interval	: 20000 h	: 20000 h			
Lubricant amount	: 45 g	: 27 g			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 405A SF 1.15 SFA 465A					
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 / 5	

# LOAD PERFORMANCE CURVE

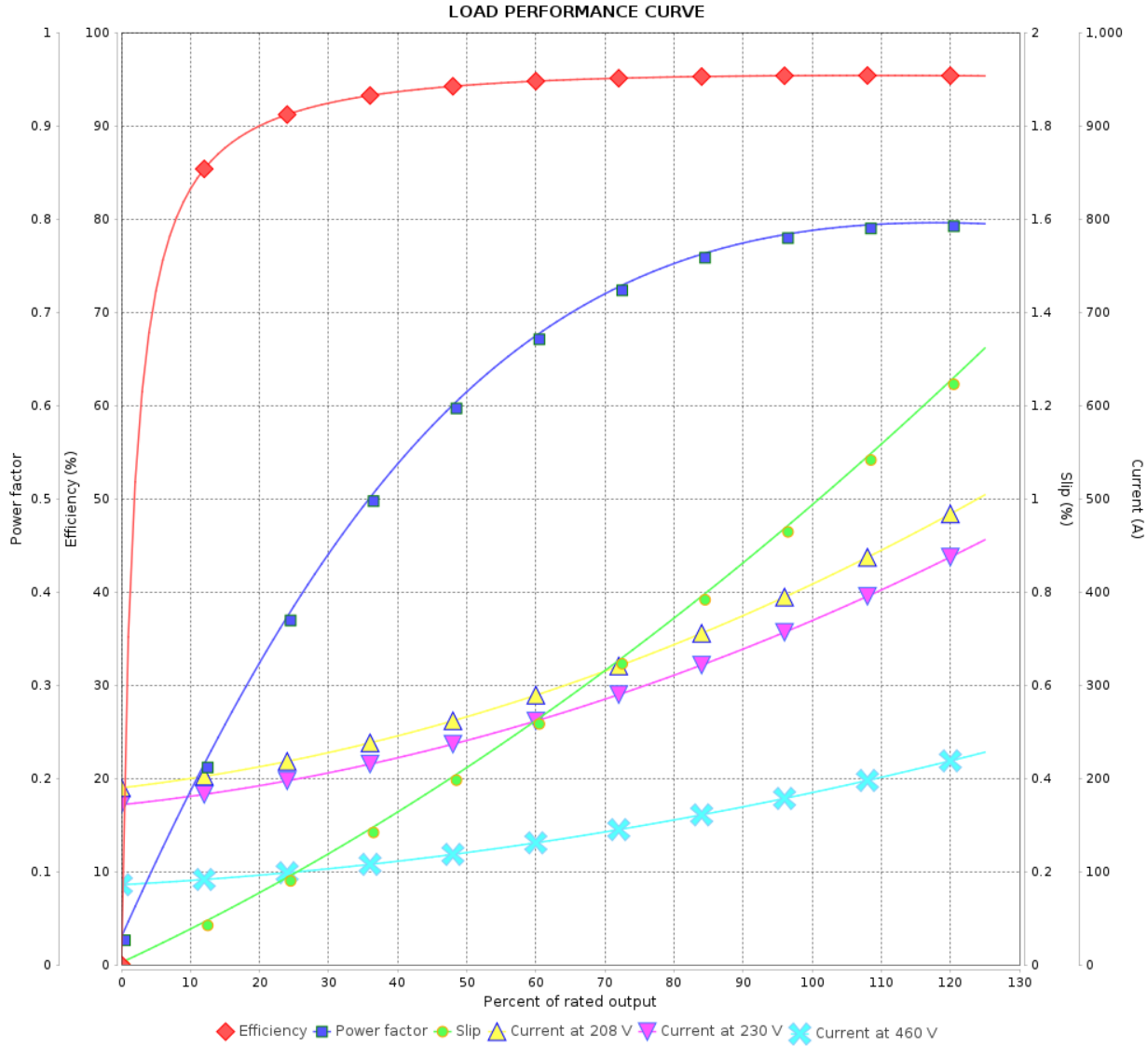
Three Phase Induction Motor - Squirrel Cage



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

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 15187144



Performance : 230/460 V 60 Hz 6P

Rated current : 366/183 A  
 LRC : 6.4  
 Rated torque : 91.6 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 260 %  
 Rated speed : 1188 rpm

Moment of inertia (J) : 3.33 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

# LOAD PERFORMANCE CURVE

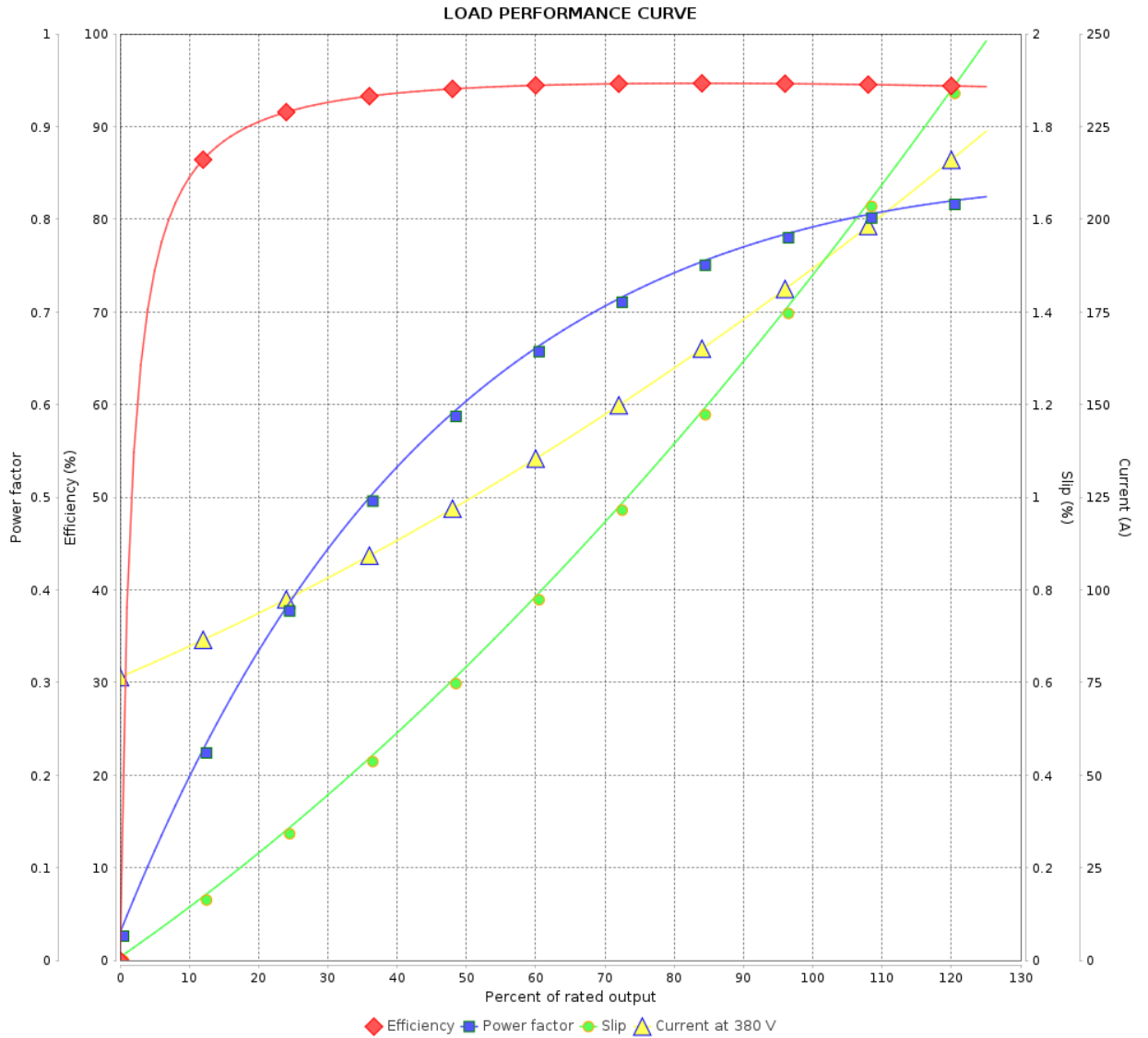
## Three Phase Induction Motor - Squirrel Cage



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

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 15187144



Performance : 380 V 50 Hz 6P IE2

Rated current : 183 A  
 LRC : 6.6  
 Rated torque : 92.1 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 250 %  
 Rated speed : 985 rpm

Moment of inertia (J) : 3.33 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		3 / 5		
Date		16/01/2024		

# LOAD PERFORMANCE CURVE

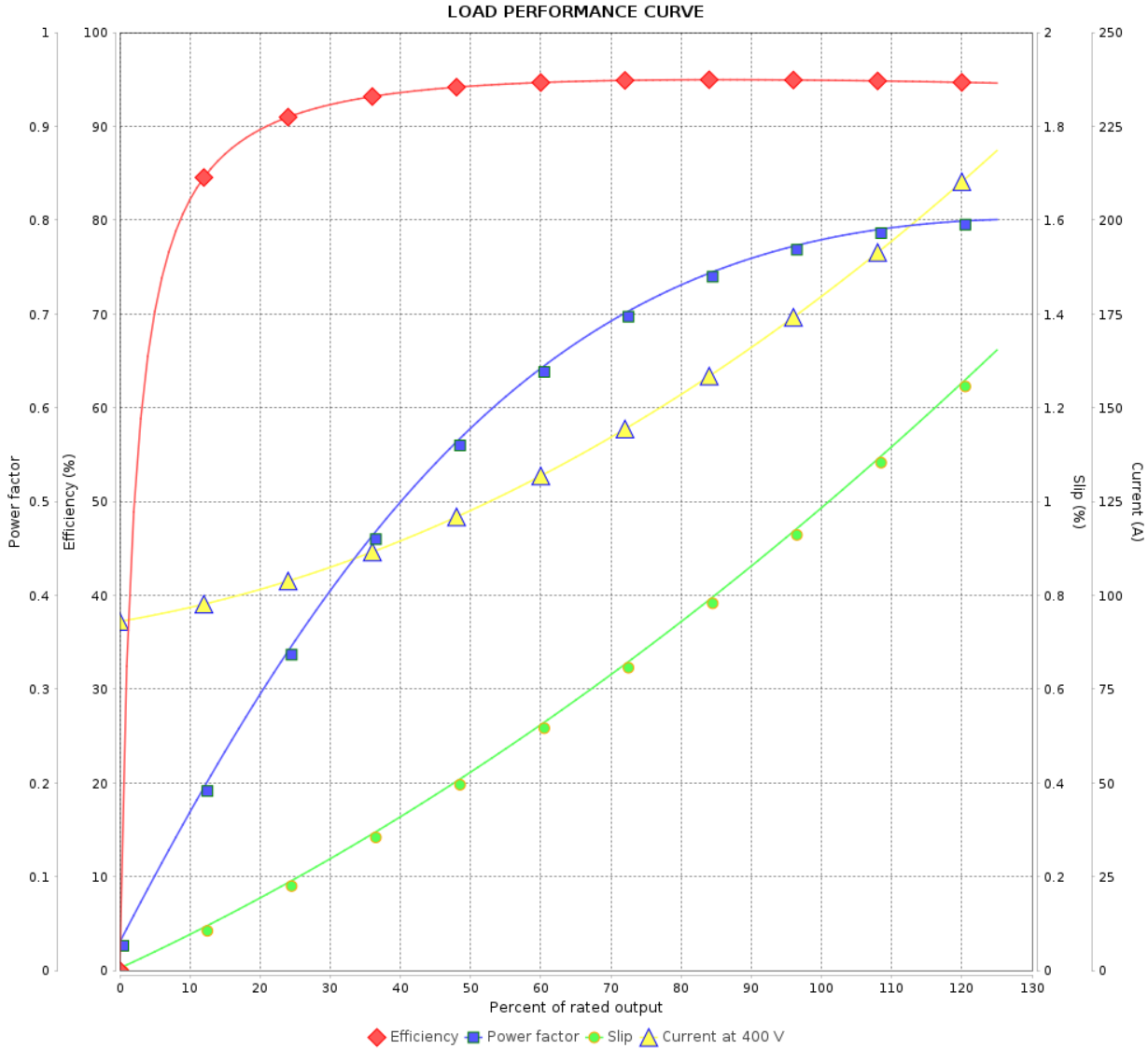
Three Phase Induction Motor - Squirrel Cage



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

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 15187144



Performance : 400 V 50 Hz 6P IE3

Rated current : 175 A  
 LRC : 6.7  
 Rated torque : 91.6 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 280 %  
 Rated speed : 990 rpm

Moment of inertia (J) : 3.33 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 5	Revision
Checked by				
Date	16/01/2024			

# LOAD PERFORMANCE CURVE

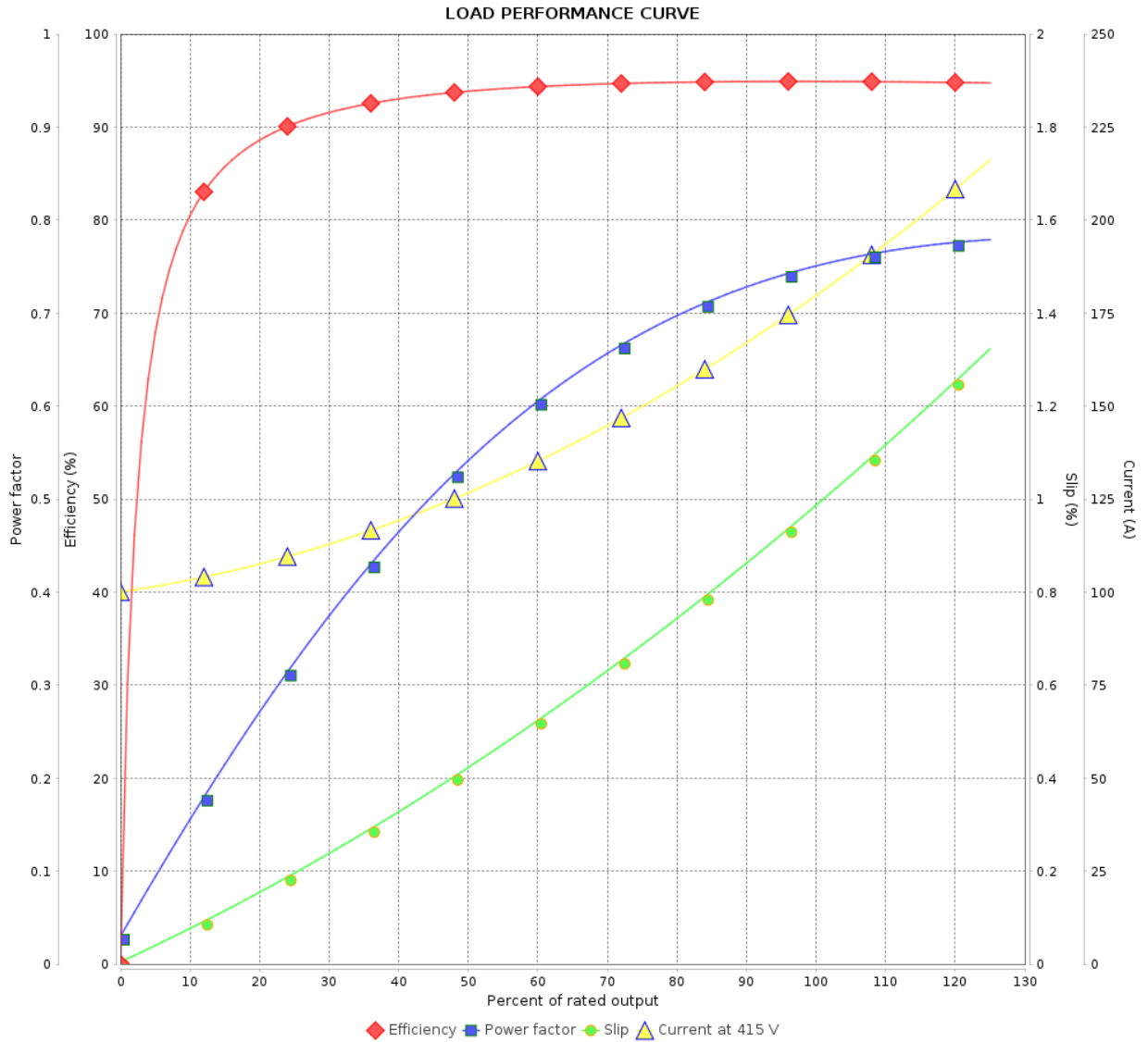
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 15187144



Performance : 415 V 50 Hz 6P IE3

Rated current : 176 A  
 LRC : 7.1  
 Rated torque : 91.6 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 310 %  
 Rated speed : 990 rpm

Moment of inertia (J) : 3.33 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				
			5 / 5	