

DATA SHEET

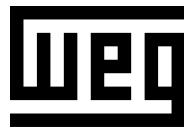
Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: NEMA Premium Efficiency Three-Phase	Product code :	12675363
Frame	: 182/4TC	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	: 42.9 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0169 kgm ²	
Design	: B			
Output [HP]	3	3	3	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	7.62/3.81	9.08/4.54	8.30/4.40	
L. R. Amperes [A]	67.1/33.5	60.8/30.4	62.3/33.0	
LRC [A]	8.8x(Code K)	6.7x(Code H)	7.5x(Code J)	
No load current [A]	4.00/2.00	3.95/1.97	3.99/2.11	
Rated speed [RPM]	1765	1455	1460	
Slip [%]	1.94	3.00	2.67	
Rated torque [kgfm]	1.23	1.50	1.49	
Locked rotor torque [%]	220	170	200	
Breakdown torque [%]	300	260	290	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	32s (cold) 18s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	56.0 dB(A)	53.0 dB(A)	53.0 dB(A)	
Efficiency (%)	25%	86.4	88.2	87.8
	50%	87.5	87.5	87.2
	75%	88.5	87.7	87.9
	100%	89.5	86.7	87.0
Power Factor	25%	0.36	0.42	0.39
	50%	0.61	0.68	0.65
	75%	0.74	0.79	0.77
	100%	0.81	0.85	0.83
Bearing type	Drive end : 6206 ZZ	Non drive end : 6205 ZZ	Foundation loads	
Sealing	: V'Ring	Without Bearing Seal	Max. traction	: 69 kgf
Lubrication interval	: -	-	Max. compression	: 112 kgf
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			
Notes				
USABLE @208V 8.43A SF 1.00 SFA 8.43A				
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
Performed by				Page
Checked by				Revision
Date	13/05/2022			1 / 4

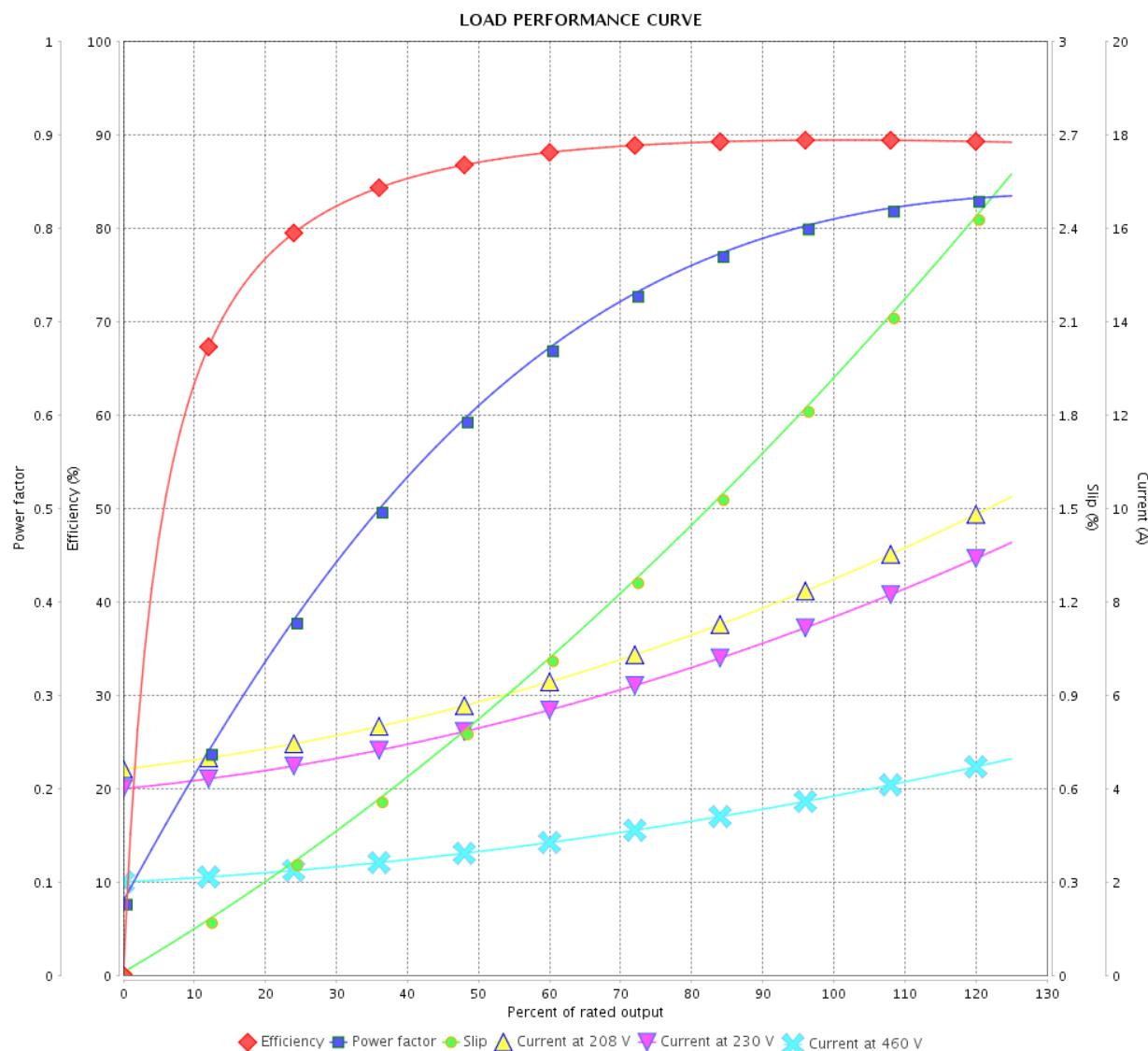
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675363



Performance : 230/460 V 60 Hz 4P

Rated current	: 7.62/3.81 A	Moment of inertia (J)	: 0.0169 kgm ²
LCR	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 1.23 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	13/05/2022			Page 2 / 4	Revision

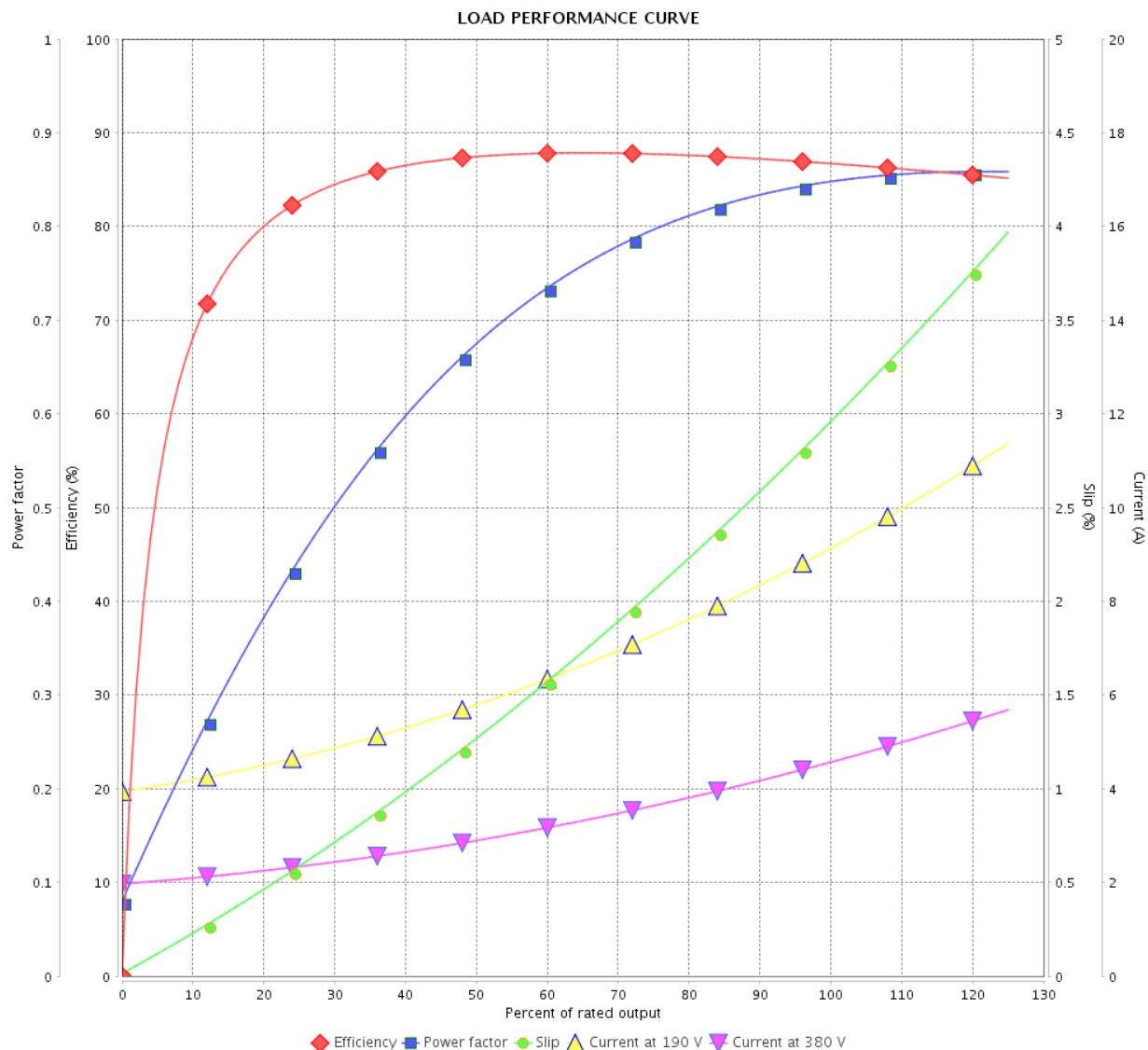
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675363



Performance : 190/380 V 50 Hz 4P				
Rated current	: 9.08/4.54 A	Moment of inertia (J)	: 0.0169 kgm ²	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 1.50 kgfm	Insulation class	: F	
Locked rotor torque	: 170 %	Service factor	: 1.15	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 1455 rpm	Design	: B	
Rev.	Changes Summary		Performed	Checked
Performed by				Page
Checked by				Revision
Date	13/05/2022			3 / 4

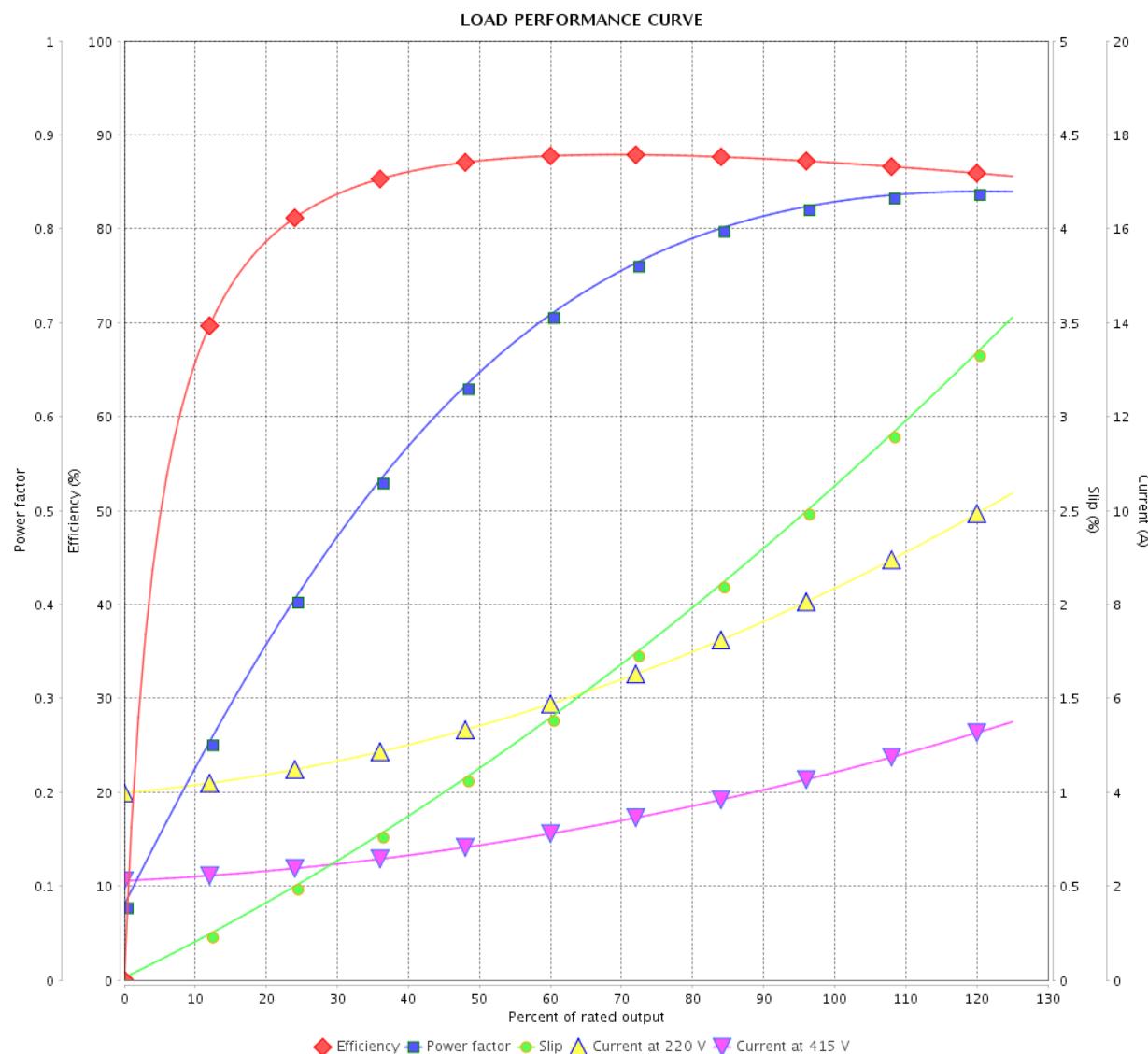
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675363



Performance : 220/415 V 50 Hz 4P

Rated current LRC	: 8.30/4.40 A	Moment of inertia (J)	: 0.0169 kgm ²
Rated torque	: 1.49 kgfm	Duty cycle	: Cont.(S1)
Locked rotor torque	: 200 %	Insulation class	: F
Breakdown torque	: 290 %	Service factor	: 1.15
Rated speed	: 1460 rpm	Temperature rise	: 80 K
		Design	: B

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	13/05/2022		Page 4 / 4	Revision	

