

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Jet Pump - J type Standard Efficiency Three-Phase	Product code :	14151171	
Frame	: 56J	Cooling method	: IC411 - TEFC	
Insulation class	: F	Mounting	: F-1	
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)	: 0.0025 kgm ²	
Output [HP]	0.5	0.5	0.5	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	208-230/460	190/380	220/415	
Rated current [A]	1.91-1.72/0.862	1.90/0.950	1.81/0.962	
L. R. Amperes [A]	13.3-12.1/6.03	11.0/5.51	11.4/6.06	
LRC [A]	7.0x(Code L)	5.8x(Code J)	6.3x(Code K)	
No load current [A]	1.03-1.20/0.600	1.24/0.618	1.39/0.737	
Rated speed [RPM]	1760	1445	1460	
Slip [%]	2.22	3.67	2.67	
Rated torque [kgfm]	0.206	0.251	0.249	
Locked rotor torque [%]	240	180	220	
Breakdown torque [%]	300	250	310	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	36s (cold) 20s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%			
	50%	68.0	70.7	
	75%	74.0	75.0	
	100%	77.0	75.9	
Power Factor	25%			
	50%	0.48	0.56	
	75%	0.61	0.69	
	100%	0.70	0.78	
Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 20 kgf	
Lubrication interval	: - -	Max. compression	: 29 kgf	
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V SF 1.00				
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.		
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Three Phase Induction Motor - Squirrel Cage

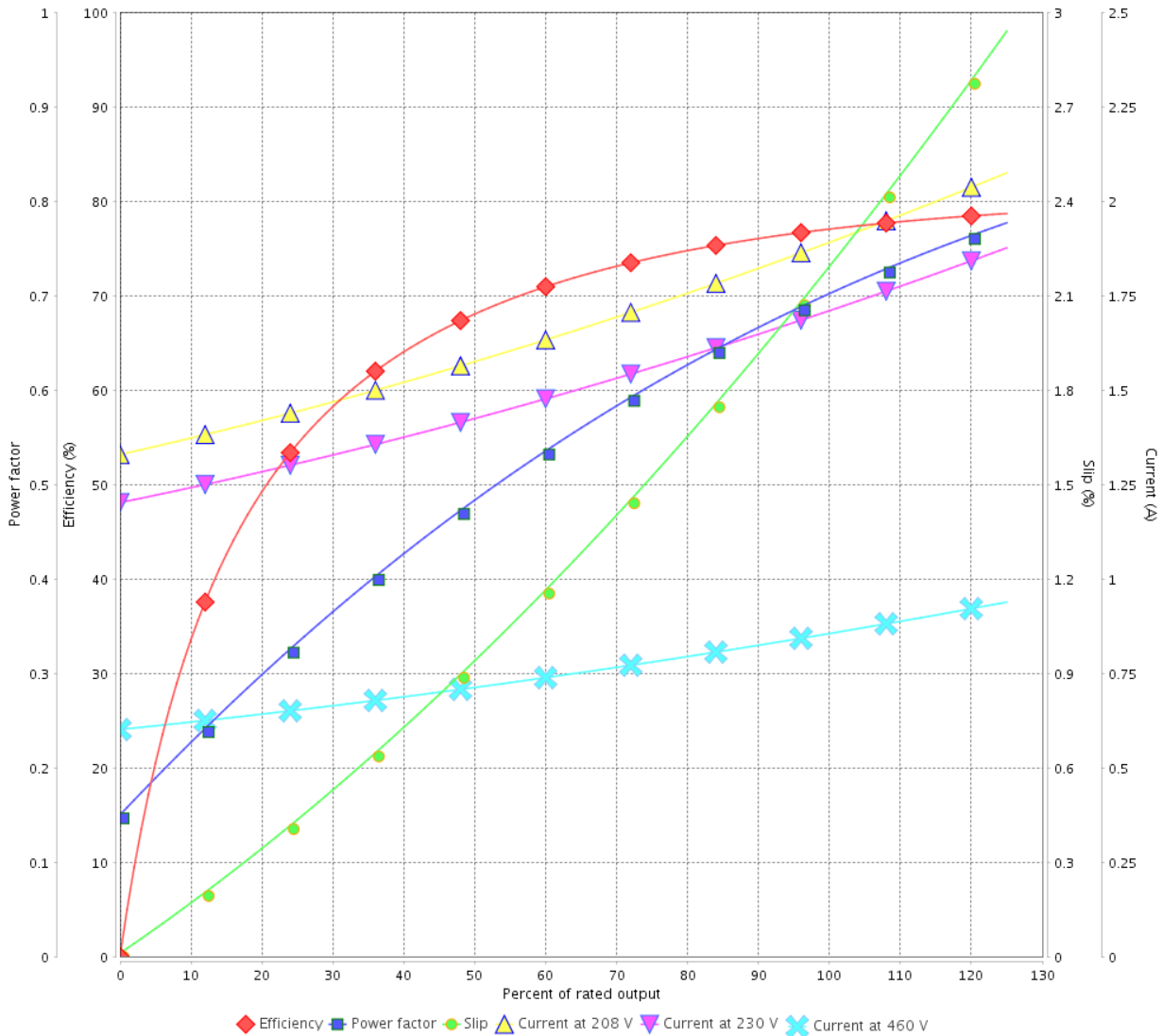


Customer :

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

Product code : 14151171

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Performance : 208-230/460 V 60 Hz 4P

Rated current : 1.91-1.72/0.862 A
 LRC : 7.0
 Rated torque : 0.206 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 300 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0025 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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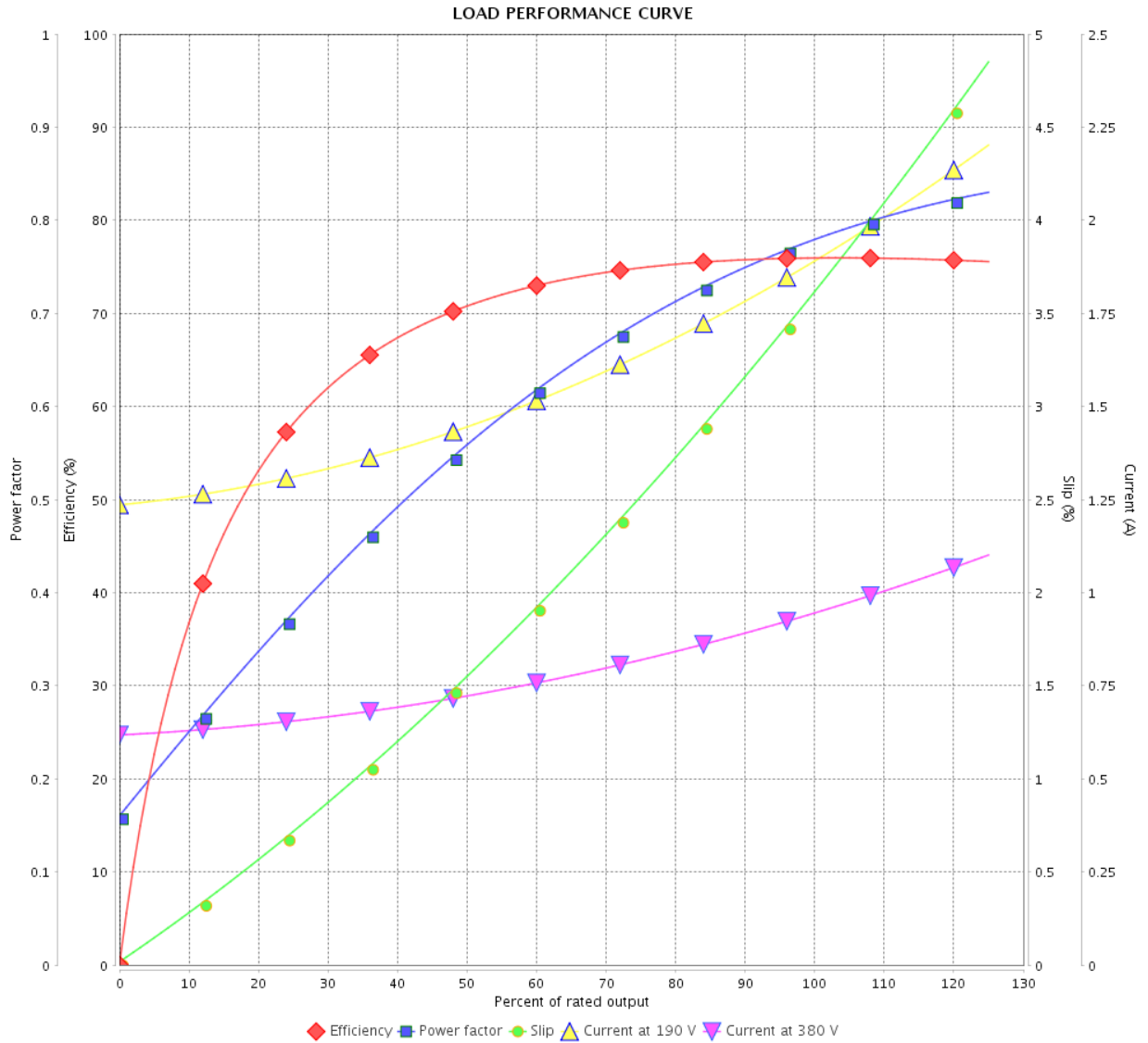
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Standard
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Performance : 190/380 V 50 Hz 4P

Rated current : 1.90/0.950 A
LRC : 5.8
Rated torque : 0.251 kgfm
Locked rotor torque : 180 %
Breakdown torque : 250 %
Rated speed : 1445 rpm

Moment of inertia (J) : 0.0025 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K

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Three Phase Induction Motor - Squirrel Cage

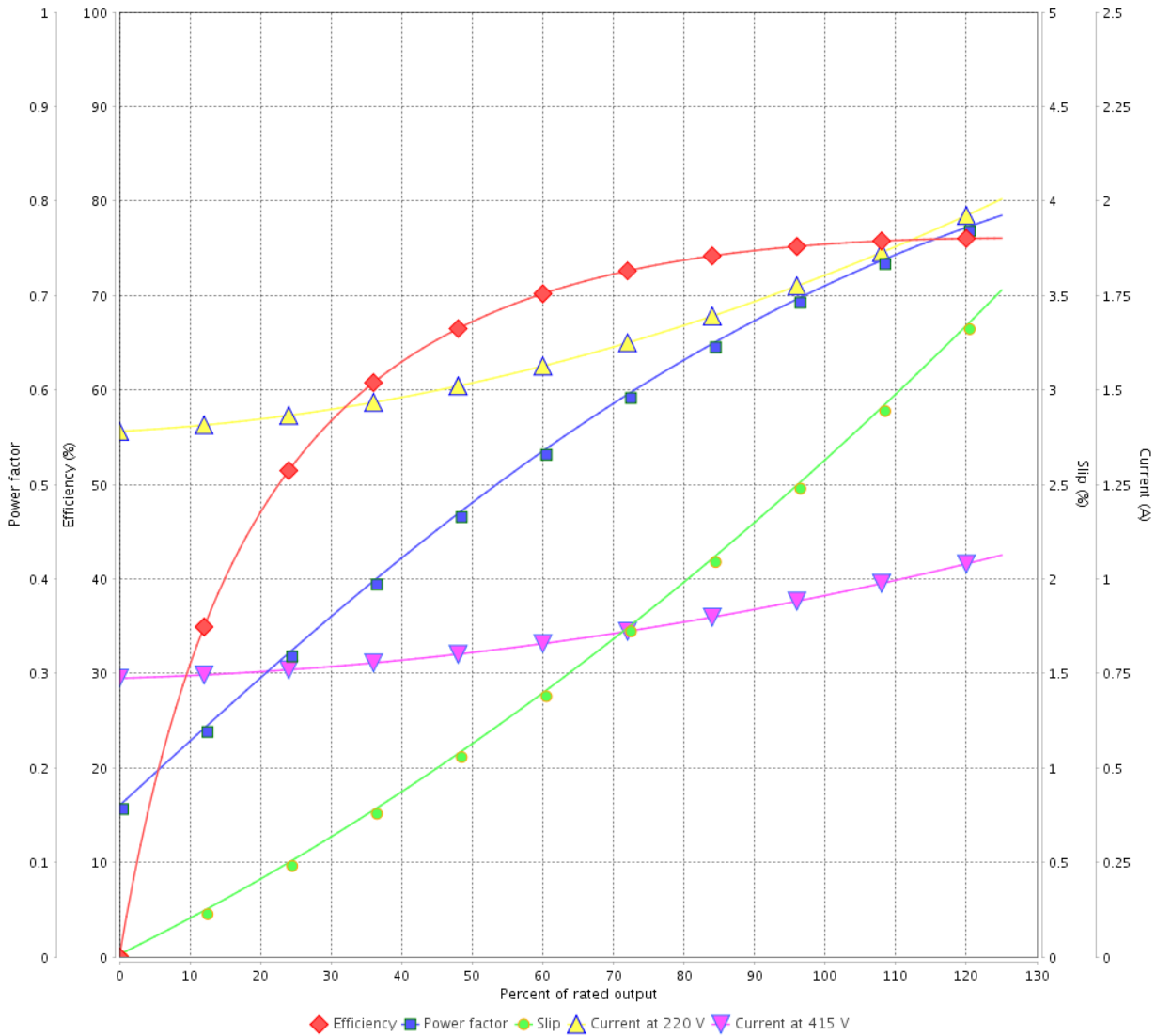


Customer :

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

Product code : 14151171

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Performance : 220/415 V 50 Hz 4P

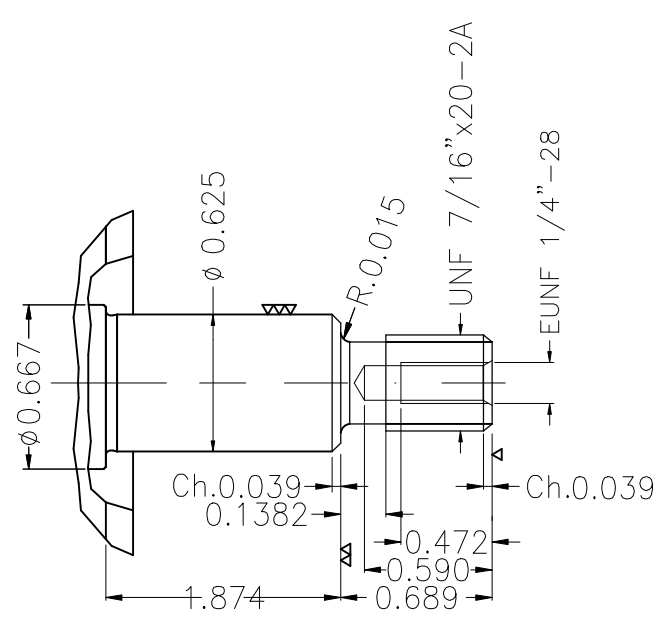
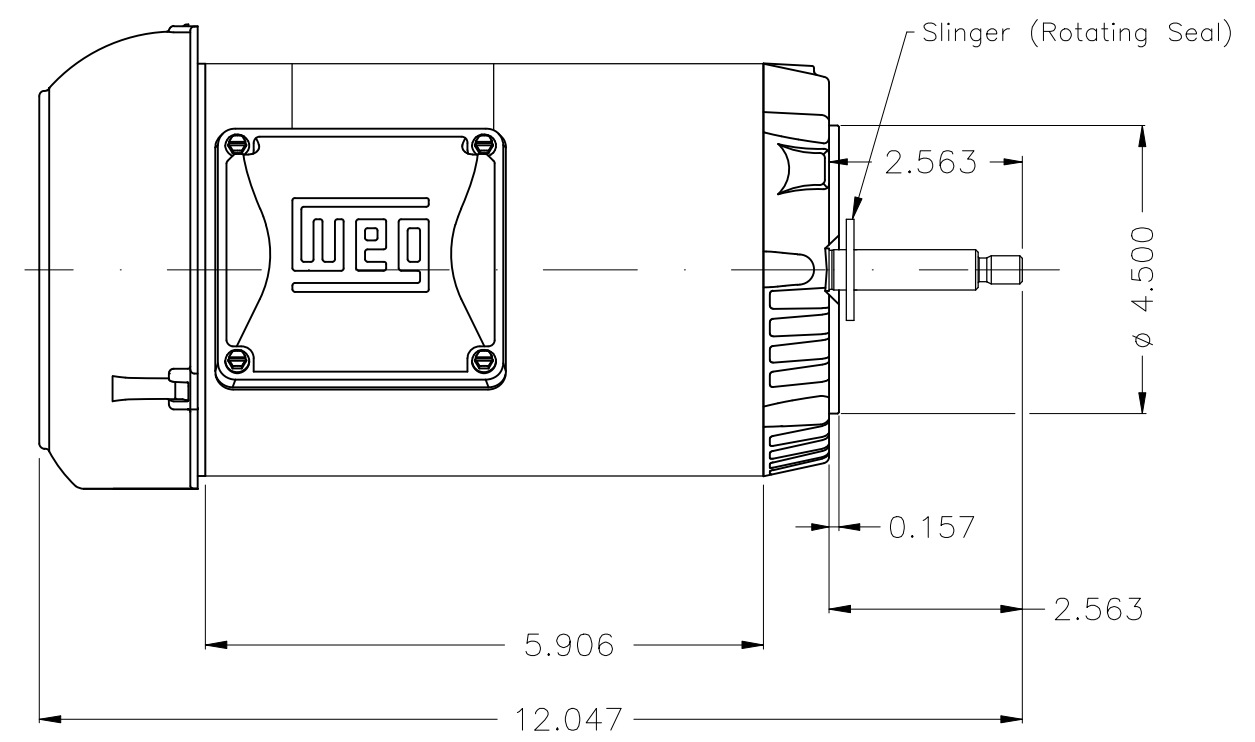
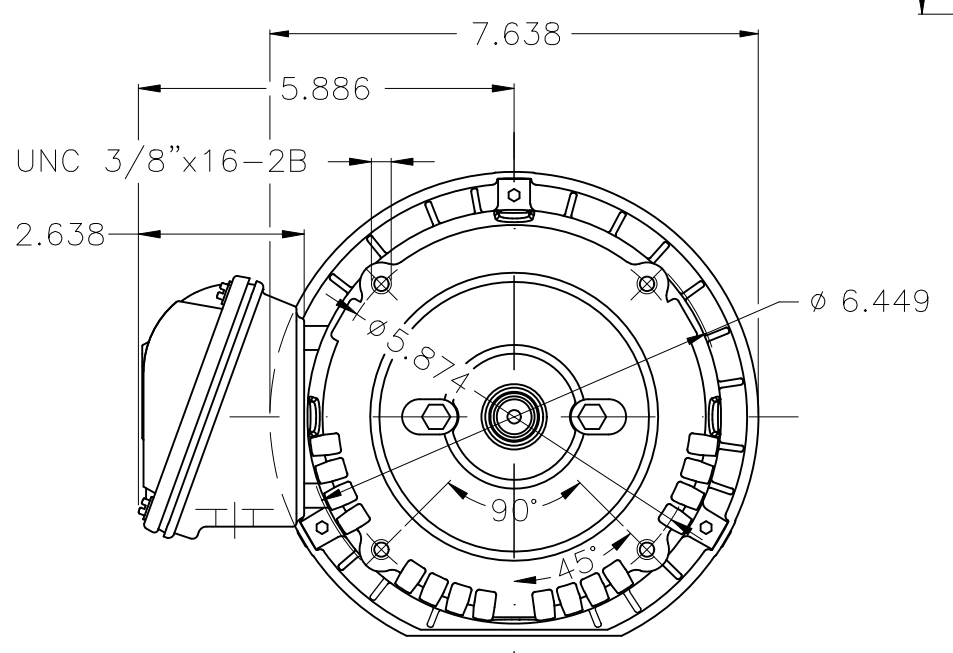
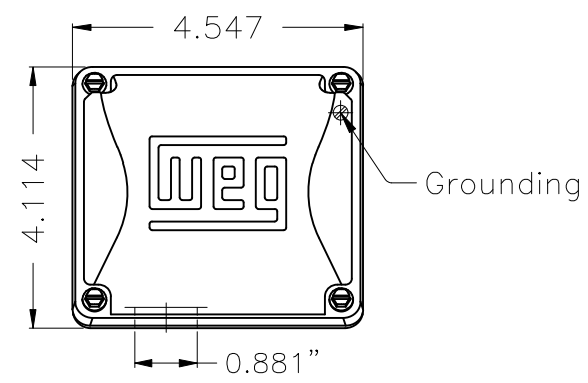
Rated current : 1.81/0.962 A
LRC : 6.3
Rated torque : 0.249 kgfm
Locked rotor torque : 220 %
Breakdown torque : 310 %
Rated speed : 1460 rpm

Moment of inertia (J) : 0.0025 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K

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1 2 3 4 5 6

A
B
C
D
E



Color Munsell N 1 matte black
 Painting plan 207N
 Mounting F-1/B14R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED					00
CHECKED		FRAME 56J IP55 TEFC					
RELEASED							
REL. DATE	WMO	Jaragua do Sul	Product Engineering	WDD	00		

0.5 HP 04 Poles 60 Hz

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