

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Jet Pump - J type Standard Efficiency Three-Phase	Product code : 13905945	
Frame : 56J		Cooling method : IC01 - ODP		
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 ³ : 15.0 kg		
Design : A		Moment of inertia (J) : 0.0040 kgm ²		
Output [HP]	3	2	2	2
Poles	2	2	2	2
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	190/380	220/415	220/415
Rated current [A]	7.78/3.89	6.30/3.15	6.02/3.19	6.02/3.19
L. R. Amperes [A]	54.5/27.2	48.5/24.3	51.1/27.1	51.1/27.1
LRC [A]	7.0x(Code J)	7.7x(Code J)	8.5x(Code L)	8.5x(Code L)
No load current [A]	3.20/1.60	3.20/1.60	4.15/2.20	4.15/2.20
Rated speed [RPM]	3450	2875	2900	2900
Slip [%]	4.17	4.17	3.33	3.33
Rated torque [kgfm]	0.631	0.505	0.501	0.501
Locked rotor torque [%]	220	260	320	320
Breakdown torque [%]	250	300	360	360
Service factor		1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	14s (cold) 8s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%			
	50%	80.0	81.0	76.8
	75%	81.5	82.8	80.7
	100%	81.5	82.2	81.7
Power Factor	25%			
	50%	0.70	0.69	0.56
	75%	0.82	0.82	0.71
	100%	0.87	0.88	0.80
Bearing type : Drive end 6203 2RS Non drive end 6202 2RS Sealing : Without Without Bearing Seal Bearing Seal Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM		Foundation loads Max. traction : 50 kgf Max. compression : 65 kgf		
Notes USABLE @208V 8.60A SF 1.00 SFA 8.60A				
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				
Checked by				
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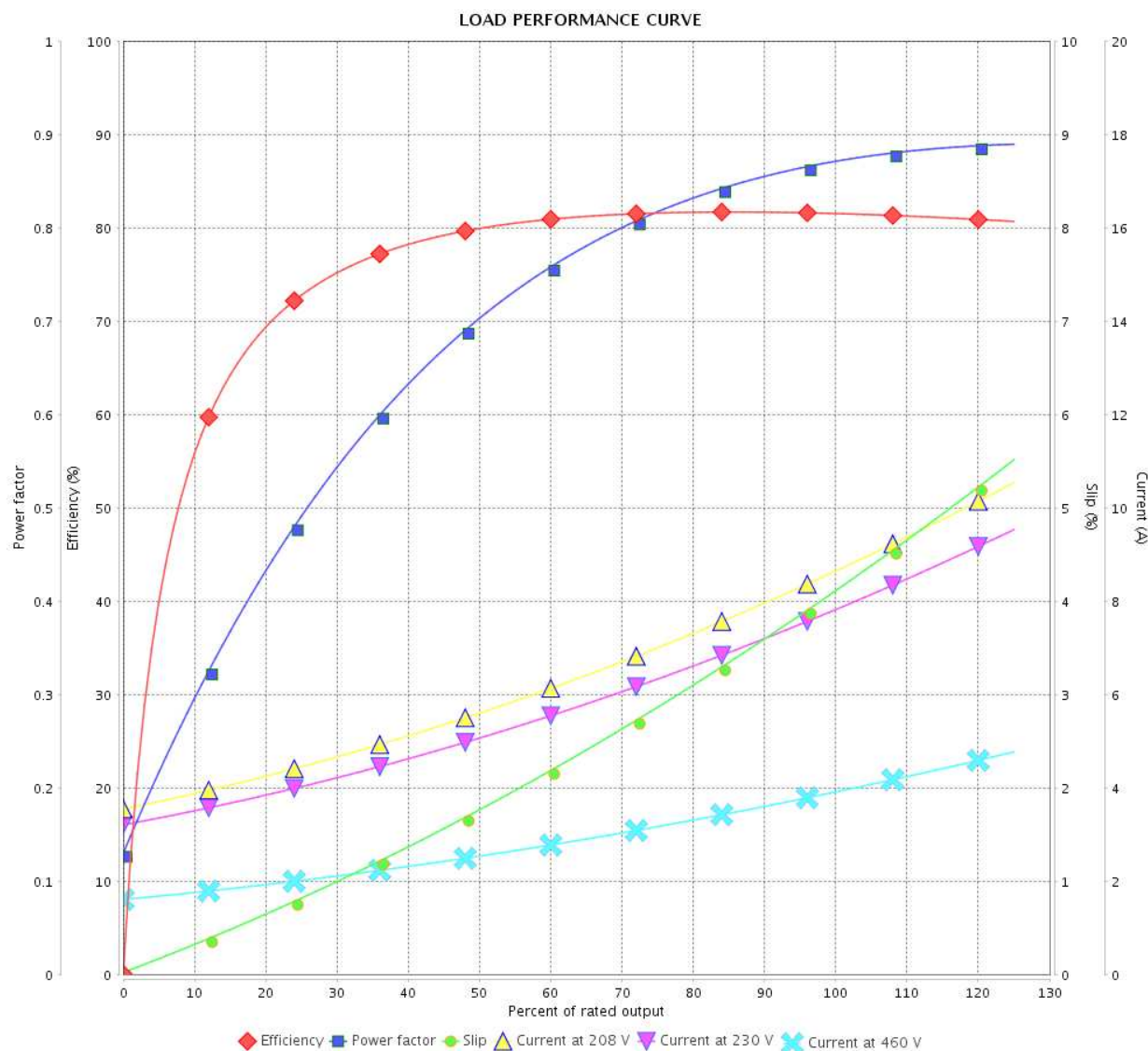
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Efficiency Three-Phase

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Performance : 230/460 V 60 Hz 2P

Rated current : 7.78/3.89 A
 LRC : 7.0
 Rated torque : 0.631 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 3450 rpm

Moment of inertia (J) : 0.0040 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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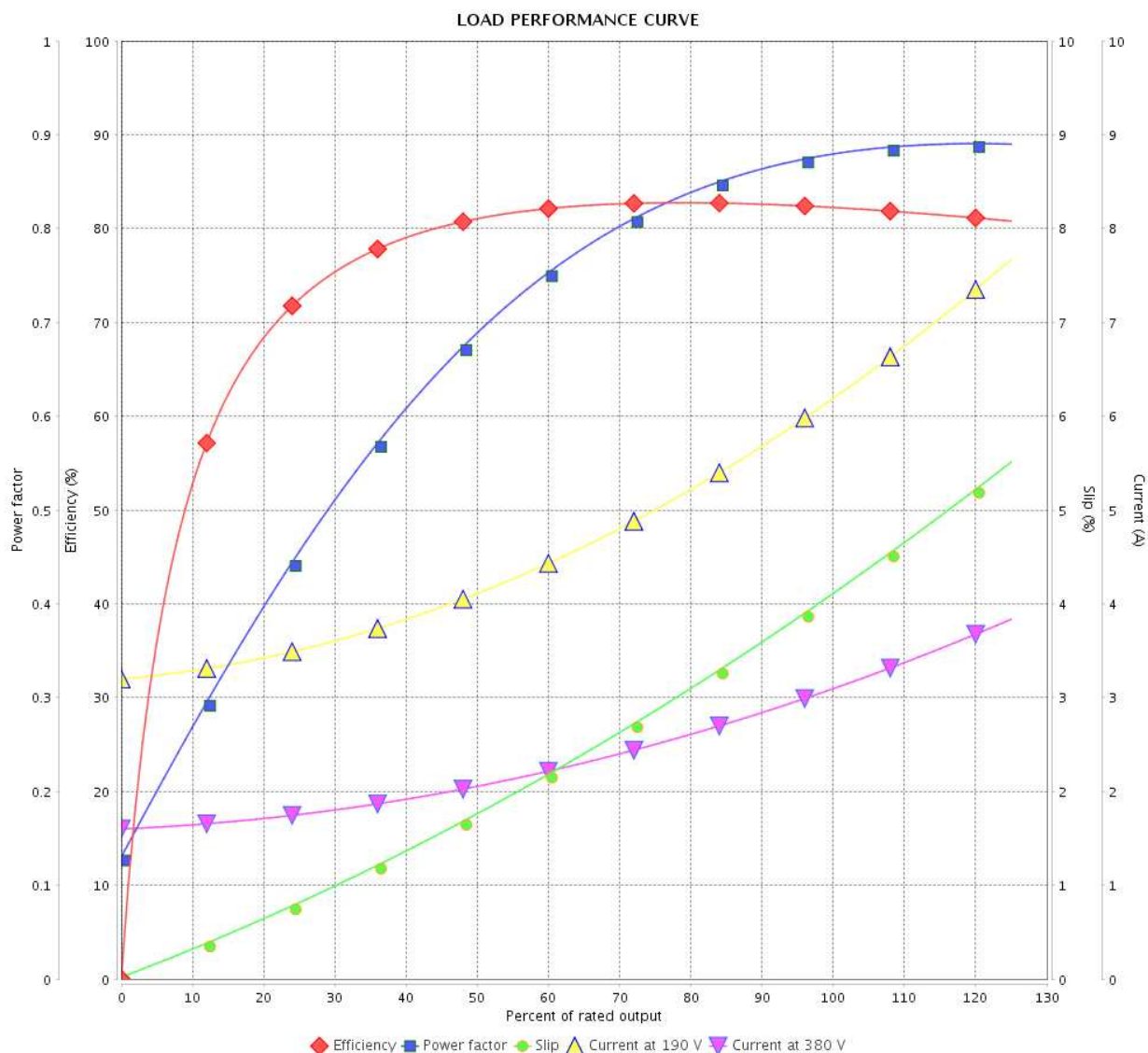
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 190/380 V 50 Hz 2P

Rated current : 6.30/3.15 A
LRC : 7.7
Rated torque : 0.505 kgfm
Locked rotor torque : 260 %
Breakdown torque : 300 %
Rated speed : 2875 rpm

Moment of inertia (J) : 0.0040 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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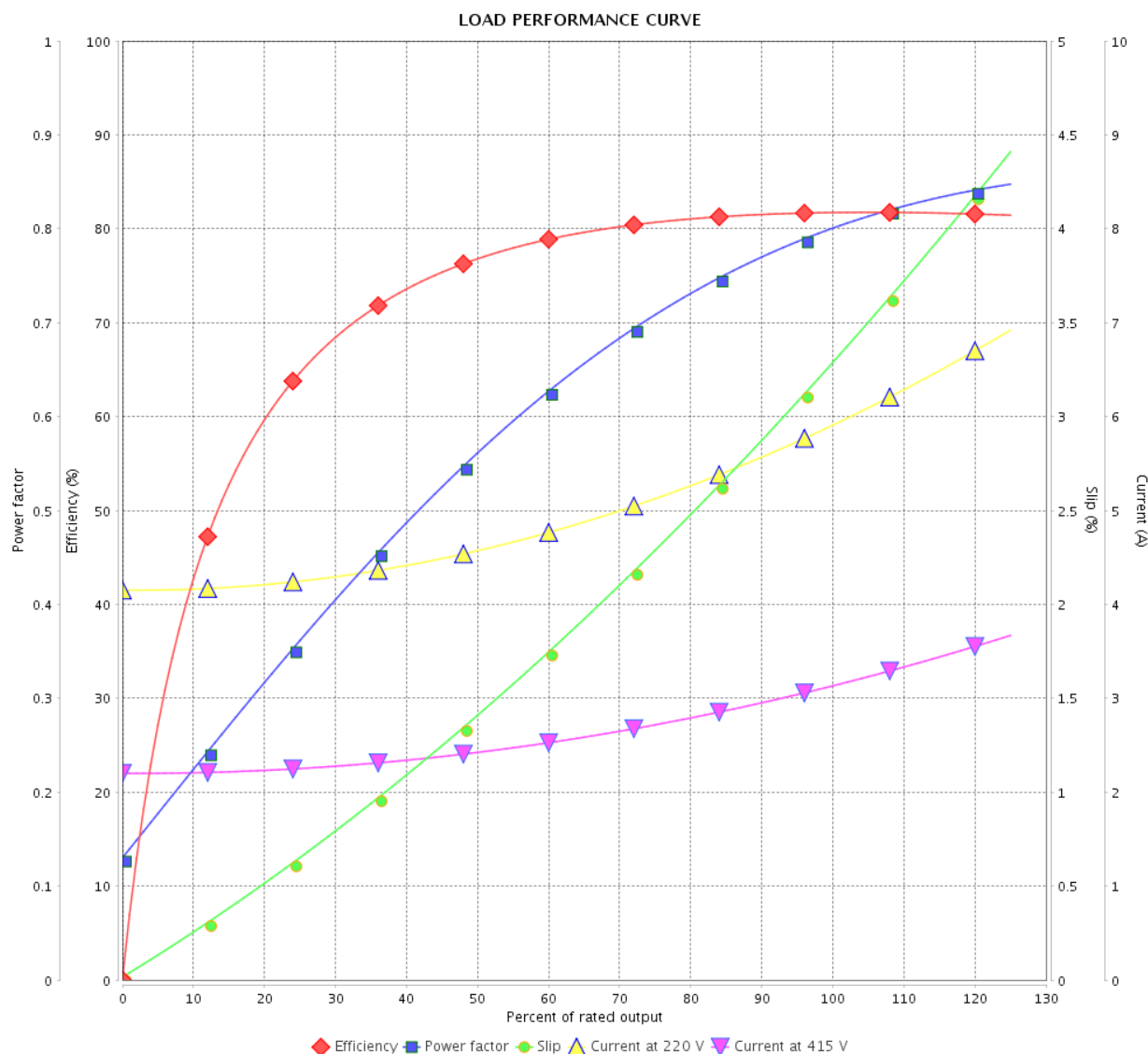
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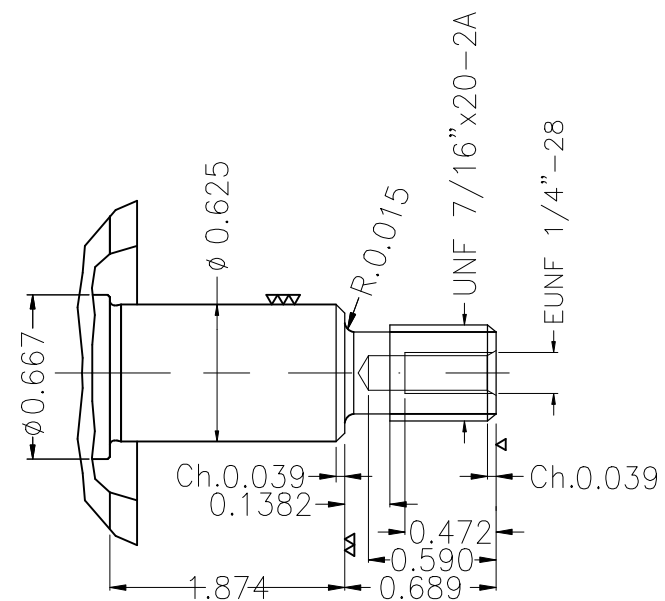
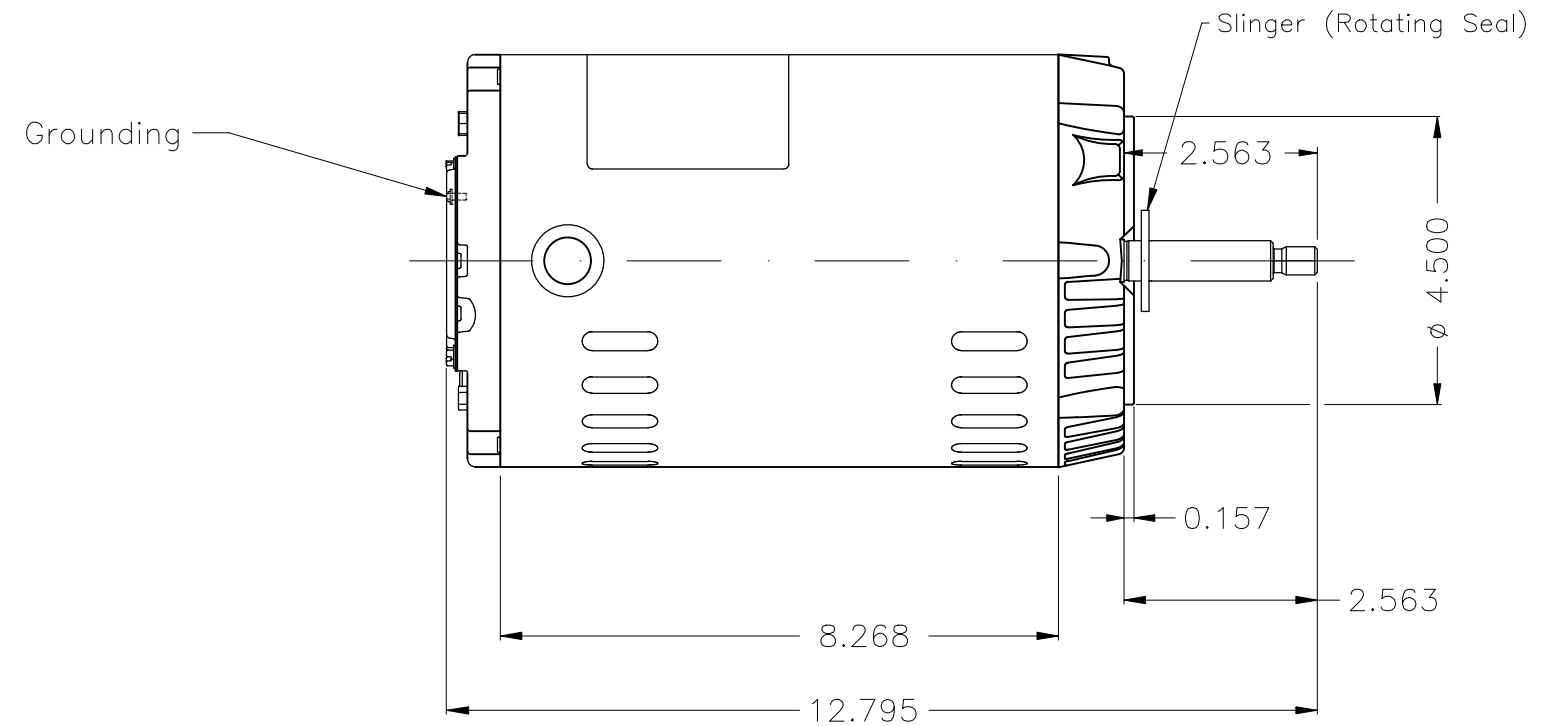
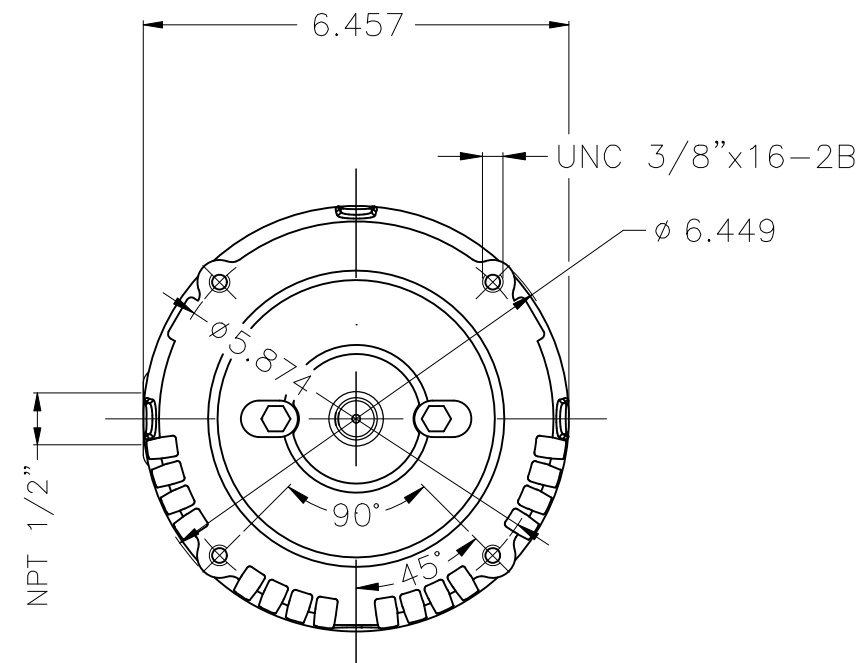


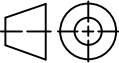
Performance : 220/415 V 50 Hz 2P

Rated current : 6.02/3.19 A
LRC : 8.5
Rated torque : 0.501 kgfm
Locked rotor torque : 320 %
Breakdown torque : 360 %
Rated speed : 2900 rpm

Moment of inertia (J) : 0.0040 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B14R(D)									
				HYBRISUSER					00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED FRAME 56J IP21 ODP			PREVIEW WDD 00			
CHECKED									
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			