

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Standard Efficiency Three-Phase	Product code :	13502188	
Frame	: 56	Cooling method	: IC01 - ODP	
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	: 7.9 kg	
		Moment of inertia (J)	: 0.0019 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	190-220/380	415	
Rated current [A]	2.16-1.95/0.977	1.99-1.72/0.997	1.06	
L. R. Amperes [A]	13.0-11.7/5.86	9.77-8.44/4.89	5.41	
LRC [A]	6.0x(Code L)	4.9x(Code H)	5.1x(Code J)	
No load current [A]	1.38-1.60/0.800	1.48-1.27/0.738	0.968	
Rated speed [RPM]	1755	1440	1450	
Slip [%]	2.50	4.00	3.33	
Rated torque [kgfm]	0.207	0.252	0.250	
Locked rotor torque [%]	220	180	200	
Breakdown torque [%]	290	220	270	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	41s (cold) 23s (hot)	48s (cold) 27s (hot)	37s (cold) 21s (hot)	
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%			
	50%	64.0	60.5	
	75%	70.0	68.1	
	100%	72.0	71.2	
Power Factor	25%			
	50%	0.43	0.45	
	75%	0.56	0.58	
	100%	0.66	0.68	
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction	: 17 kgf	
		Max. compression	: 25 kgf	
Lubrication interval	: -			
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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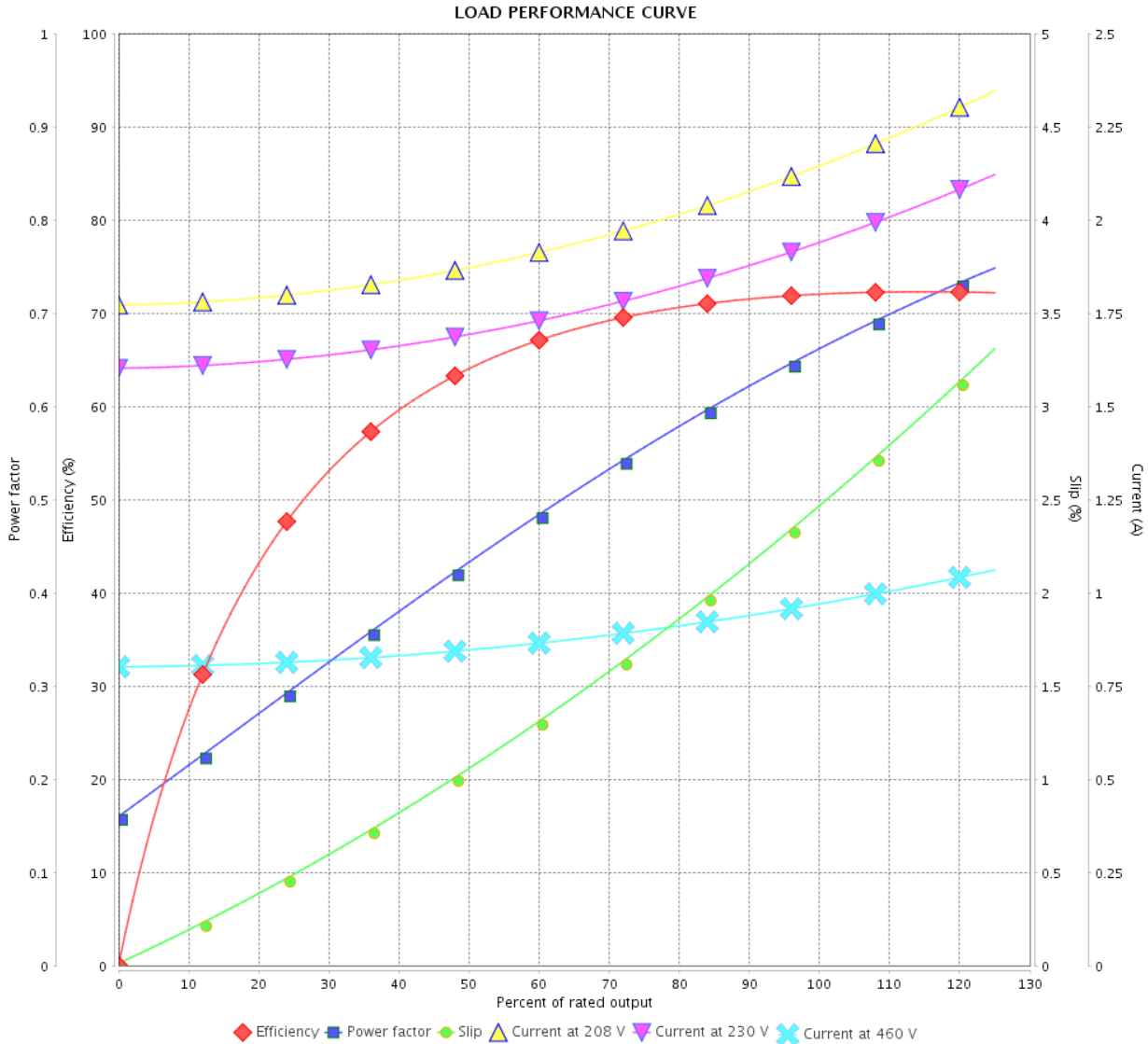
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13502188



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

Rated current : 2.16-1.95/0.977 A
 LRC : 6.0
 Rated torque : 0.207 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 290 %
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.0019 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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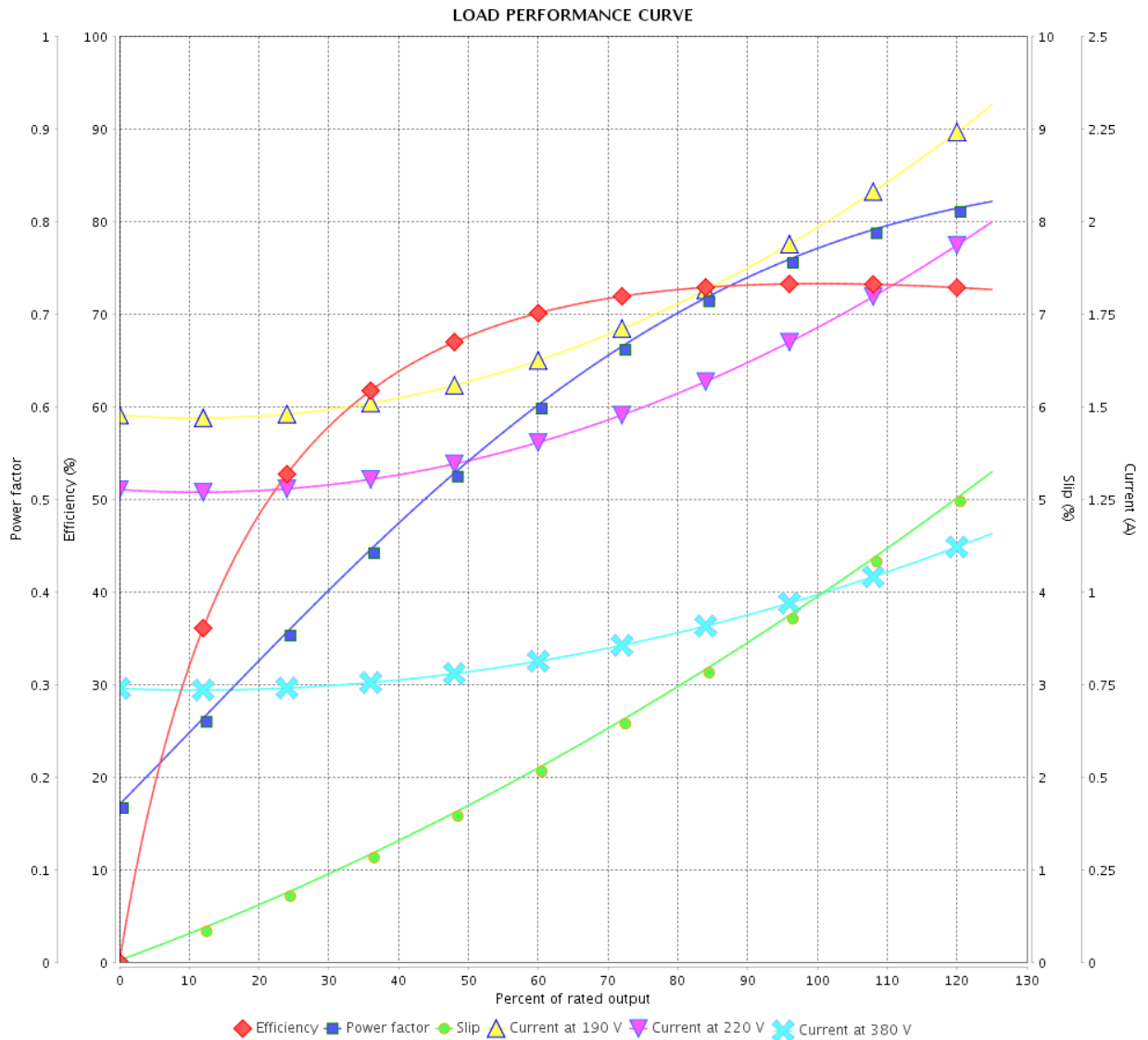
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 13502188



Performance : 190-220/380 V 50 Hz 4P

Rated current : 1.99-1.72/0.997 A
 LRC : 4.9
 Rated torque : 0.252 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 220 %
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.0019 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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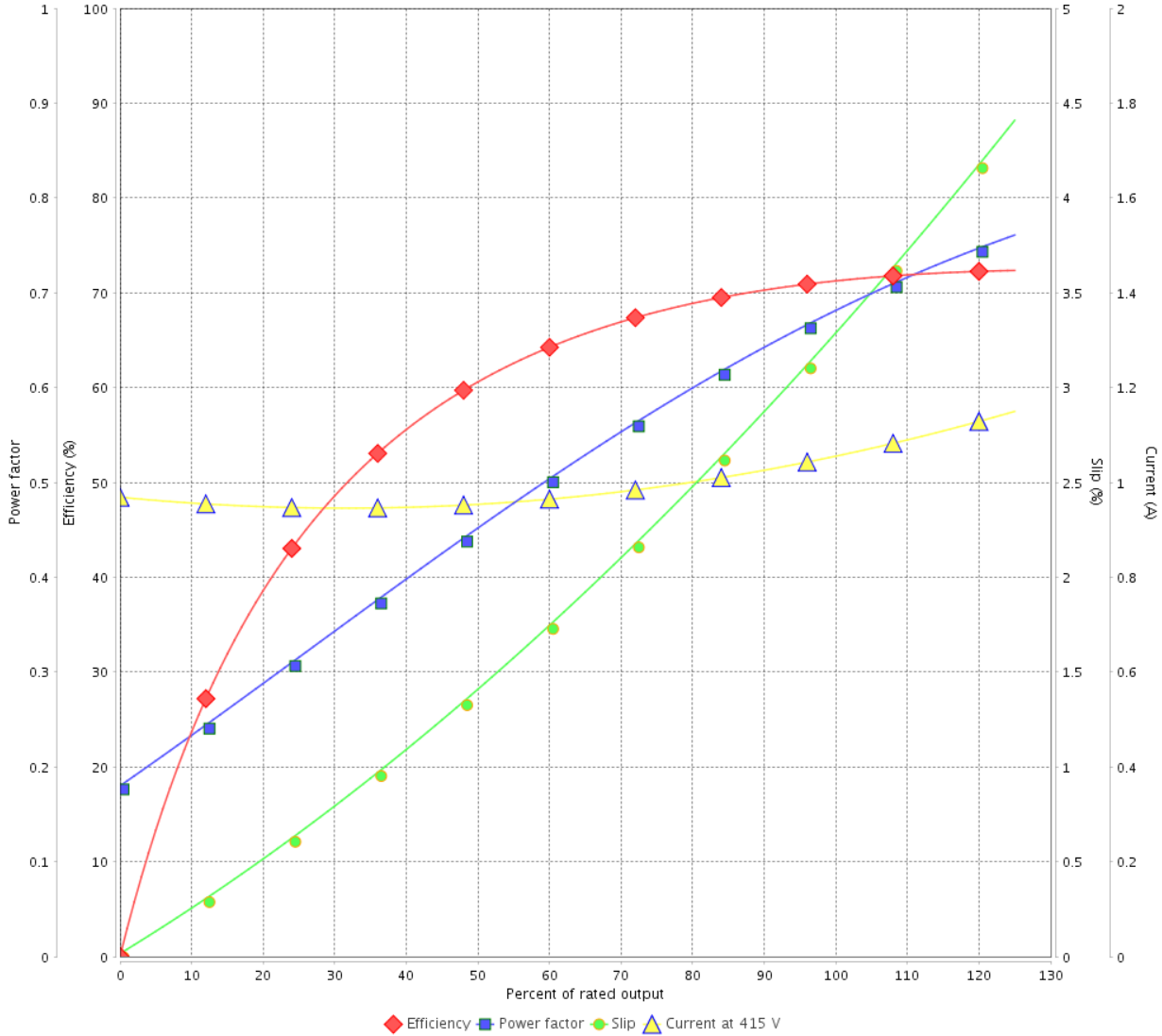
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13502188

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Performance : 415 V 50 Hz 4P

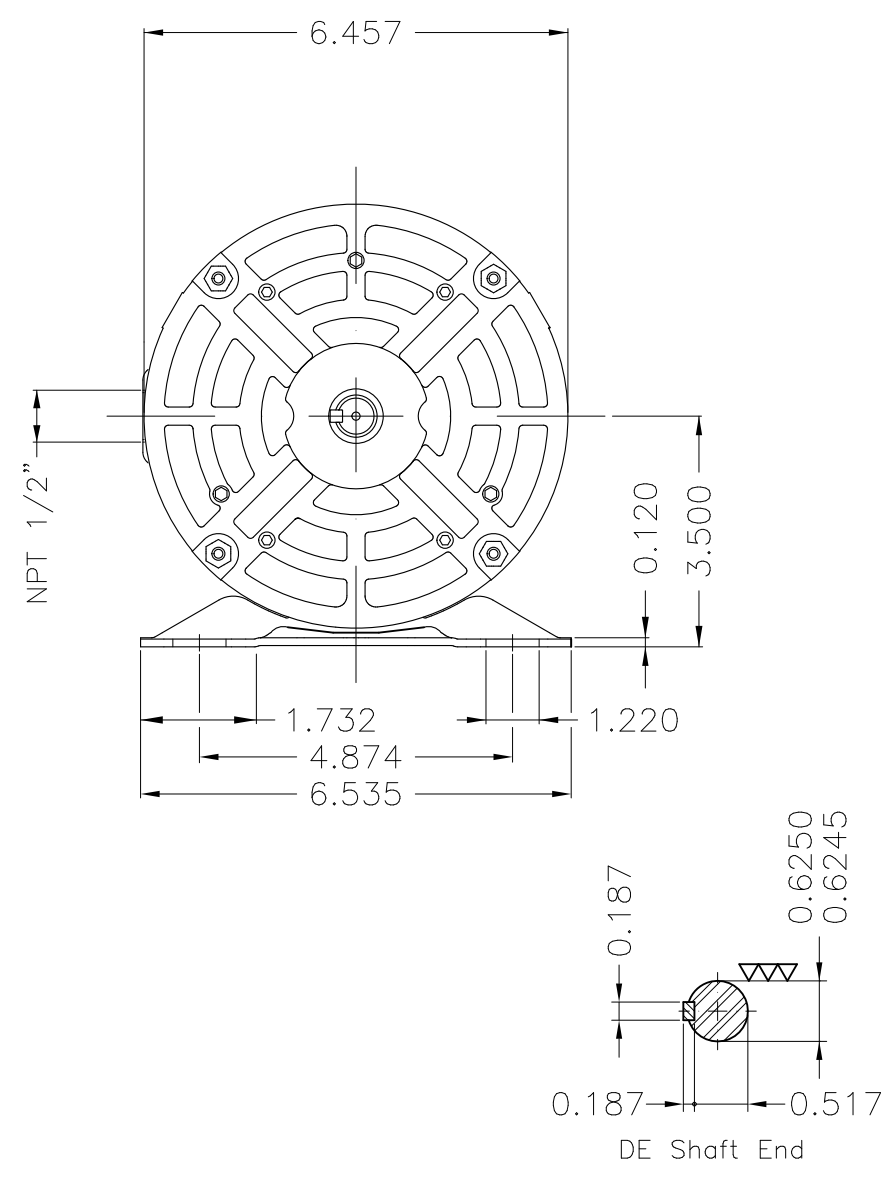
Rated current : 1.06 A
 LRC : 5.1
 Rated torque : 0.250 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 270 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0019 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

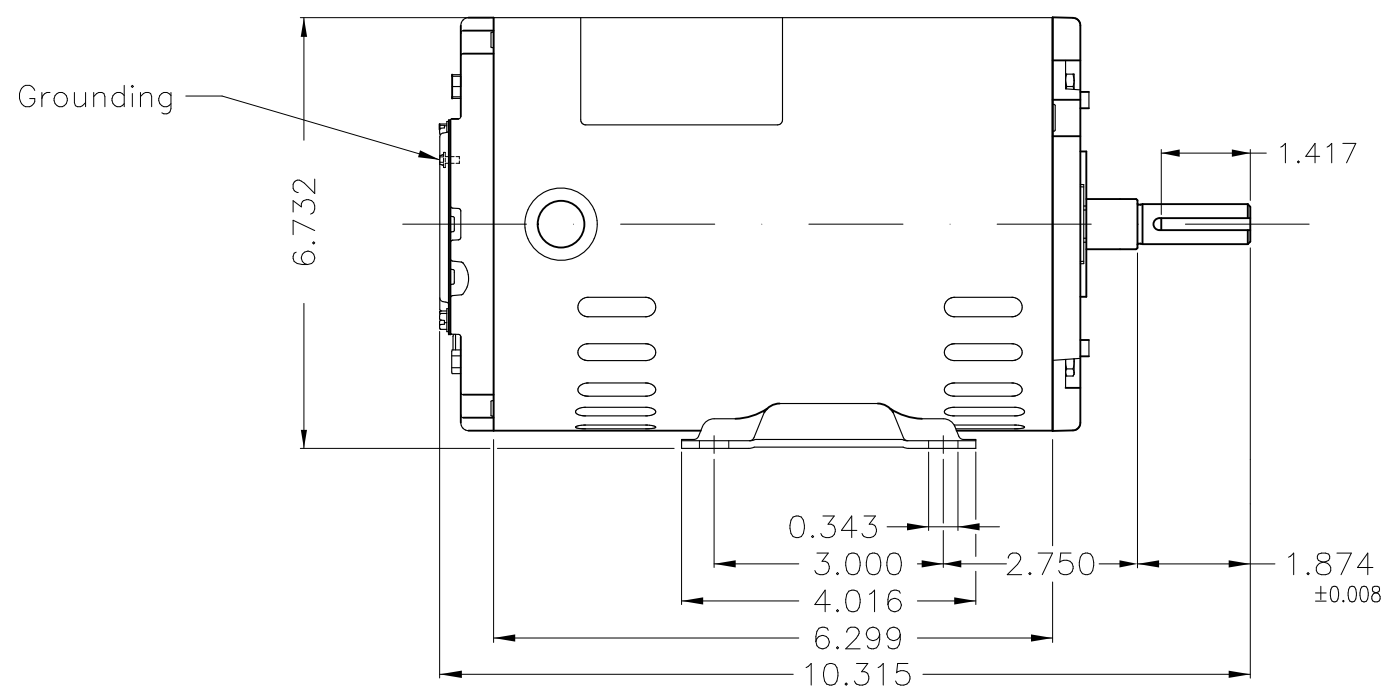
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1 2 3 4 5 6

A
B
C
D
E



DE Shaft End



Grounding

Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B3R(D)									
					HYBRISUSER	00			
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL				PREVIEW WDD 00			
CHECKED		FRAME 56 IP21 ODP							
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

0.5 HP 04 Poles 60 Hz

A