

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : Three-Phase		Product code : 13737454			
Frame : 56	Insulation class : F	Cooling method : IC01 - ODP	Mounting : F-1		
Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Rotation ¹ : Both (CW and CCW)	Starting method : Direct On Line		
Altitude : 1000 m.a.s.l.	Design : A	Approx. weight ² : 12.3 kg	Moment of inertia (J) : 0.0036 kgm ²		
Output [HP]	1	1	1		
Poles	4	4	4		
Frequency [Hz]	60	50	50		
Rated voltage [V]	230/460	190/380	220/415		
Rated current [A]	3.14/1.57	3.54/1.77	3.34/1.77		
L. R. Amperes [A]	23.9/11.9	20.9/10.4	22.0/11.7		
LRC [A]	7.6x(Code L)	5.9x(Code H)	6.6x(Code K)		
No load current [A]	2.20/1.10	2.09/1.05	2.42/1.28		
Rated speed [RPM]	1760	1440	1450		
Slip [%]	2.22	4.00	3.33		
Rated torque [kgfm]	0.412	0.504	0.501		
Locked rotor torque [%]	280	180	229		
Breakdown torque [%]	320	250	300		
Service factor		1.15	1.15		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	30s (cold) 17s (hot)	32s (cold) 18s (hot)	27s (cold) 15s (hot)		
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)		
Efficiency (%)	25%				
	50%	78.5	79.6	76.1	
	75%	82.5	81.4	79.9	
	100%	83.5	80.6	80.6	
Power Factor	25%				
	50%	0.49	0.58	0.49	
	75%	0.63	0.72	0.64	
	100%	0.72	0.80	0.73	
Bearing type	: Drive end 6204 ZZ	Non drive end 6202 ZZ	Foundation loads		
Sealing	: Without Bearing Seal	Without Bearing Seal	Max. traction	: 42 kgf	
			Max. compression	: 54 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 3.47A SF 1.00 SFA 3.47A					
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					
Date	17/05/2022			Page 1 / 4	Revision

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Three Phase Induction Motor - Squirrel Cage

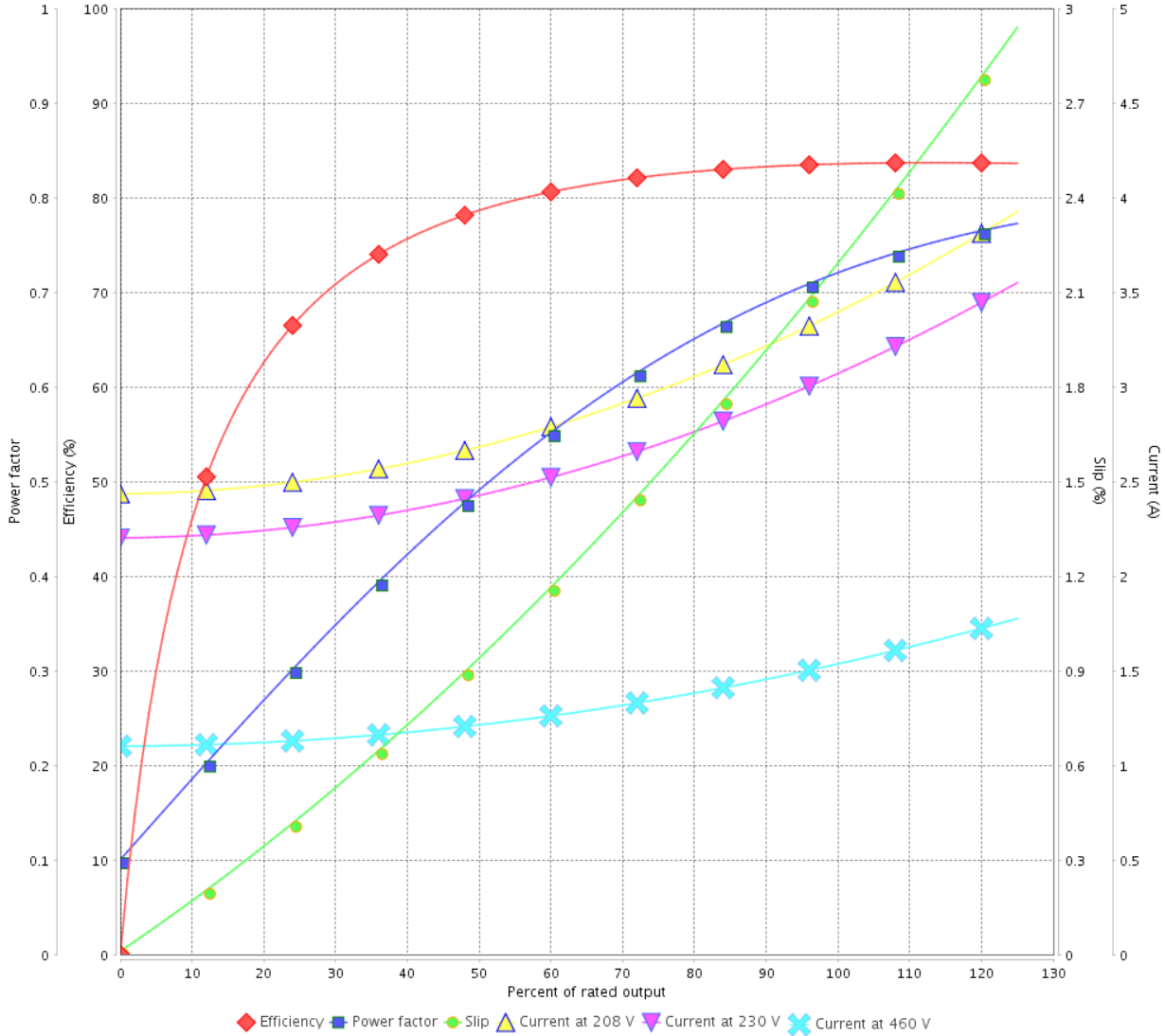


Customer :

Product line : Three-Phase

Product code : 13737454

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Performance : 230/460 V 60 Hz 4P

Rated current : 3.14/1.57 A
 LRC : 7.6
 Rated torque : 0.412 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 320 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0036 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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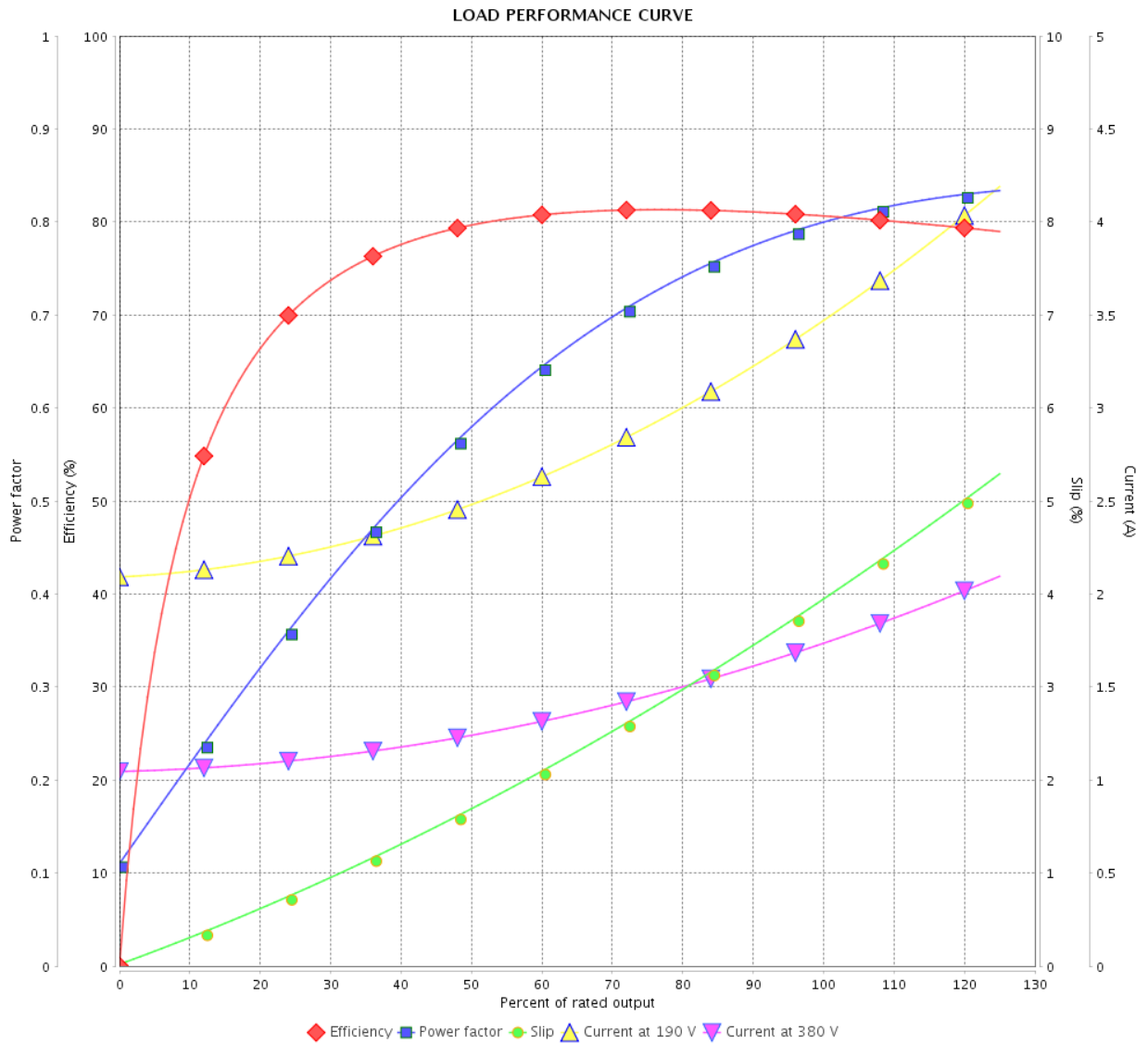
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Three-Phase

Product code : 13737454



Performance : 190/380 V 50 Hz 4P

Rated current : 3.54/1.77 A
 LRC : 5.9
 Rated torque : 0.504 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 250 %
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.0036 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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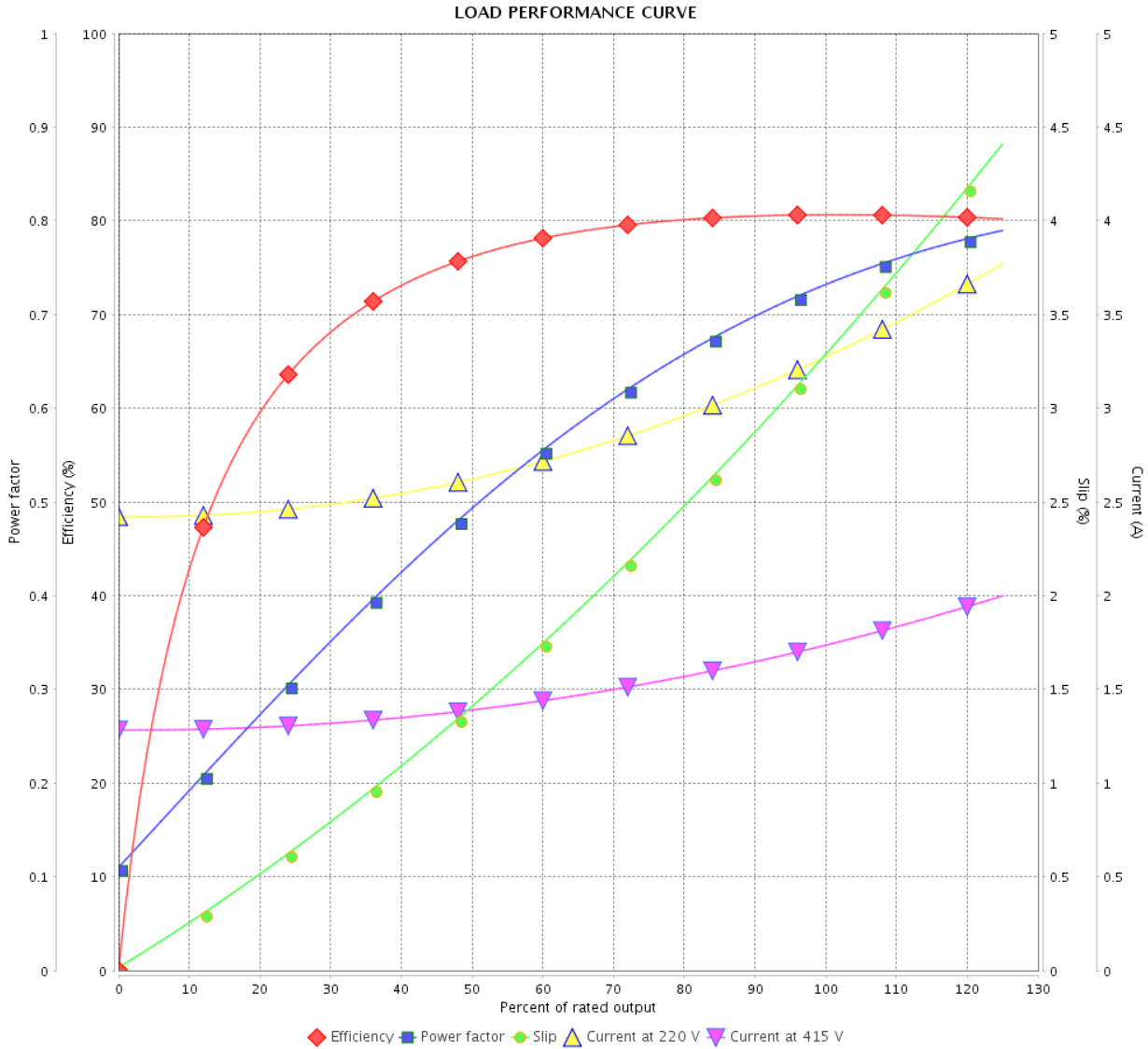
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13737454



Performance : 220/415 V 50 Hz 4P

Rated current : 3.34/1.77 A
 LRC : 6.6
 Rated torque : 0.501 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0036 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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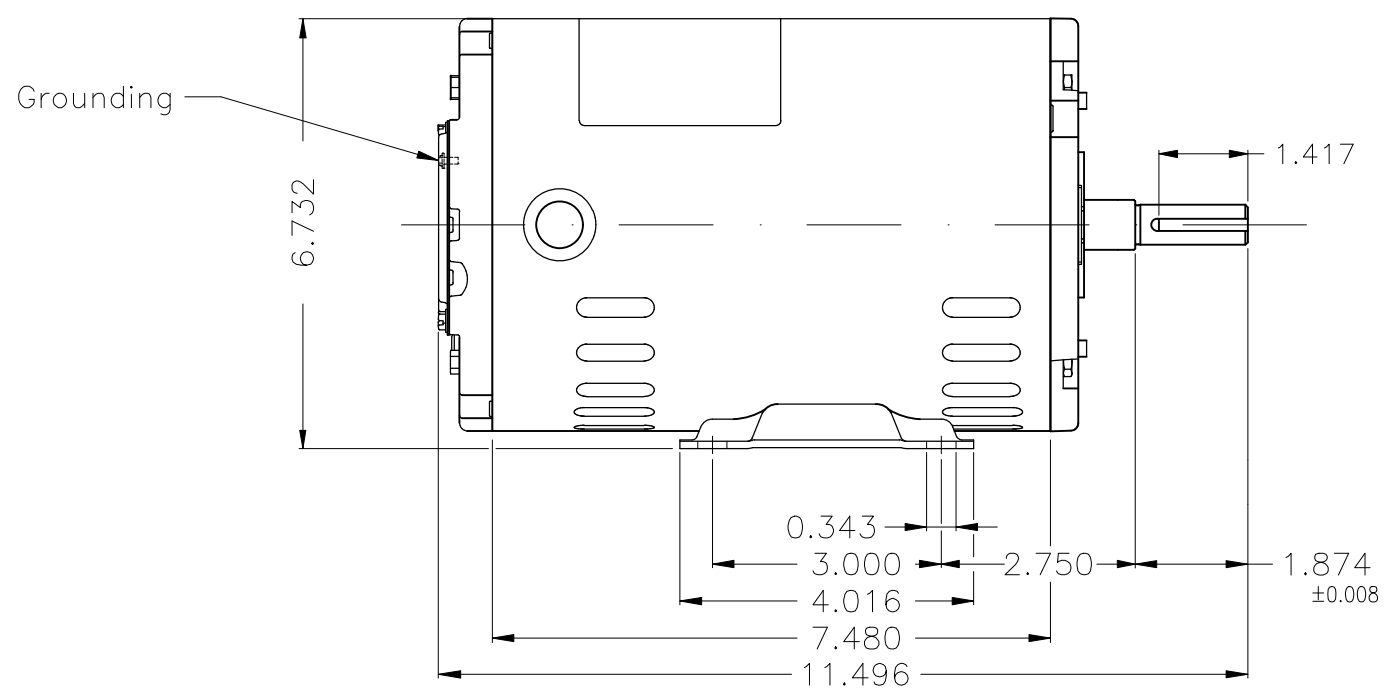
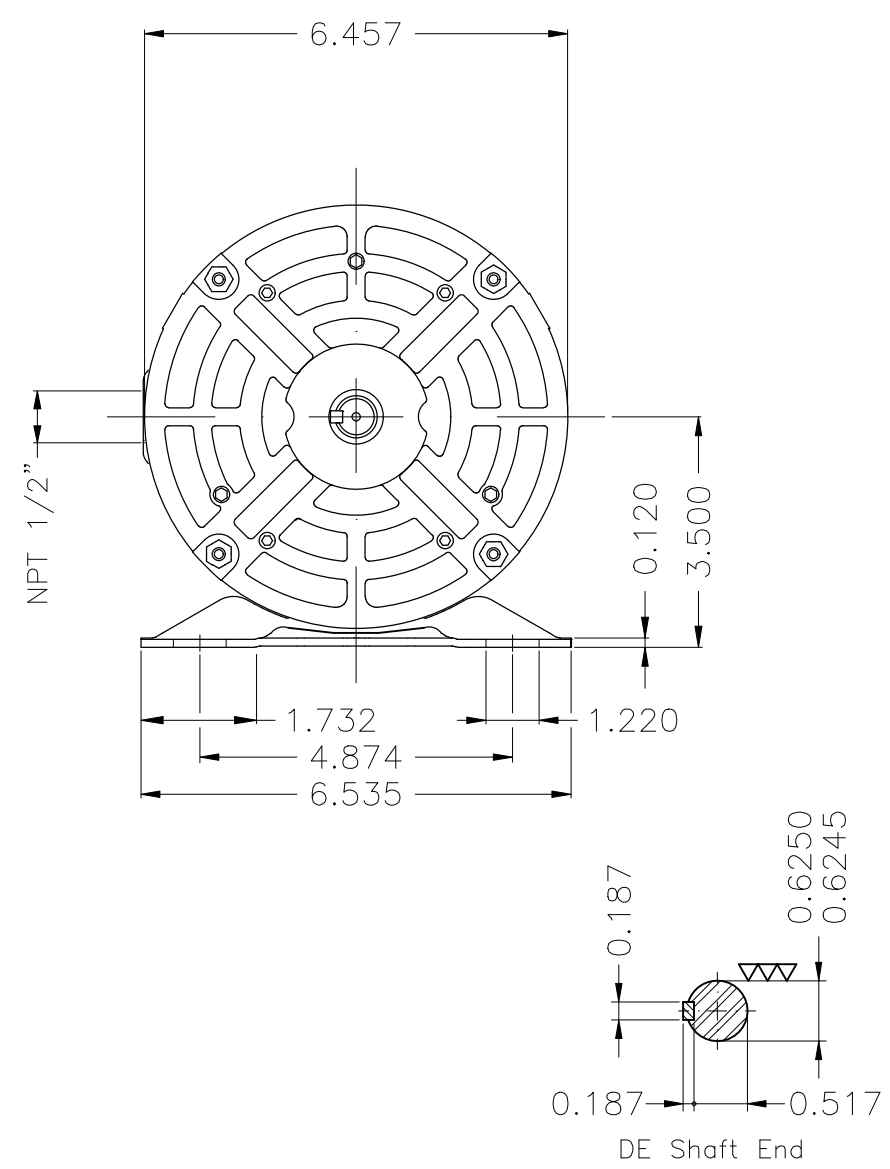
A

B

C

D

E



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 PREM. EFF.			PREVIEW				
CHECKED		FRAME 56 IP21 ODP			WDD		00		
RELEASED					SHEET		1 / 1		
REL. DATE		WMO	Jaragua do Sul	Product Engineering					

1 HP 04 Poles 60 Hz

A

