

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Three-Phase		Product code : 13702735		
Frame	: 56HC	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	: 17.4 kg	
Design	: A	Moment of inertia (J)	: 0.0049 kgm ²	
Output [HP]	2	2	2	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	5.38/2.69	6.52/3.26	5.79/3.07	
L. R. Amperes [A]	41.4/20.7	36.5/18.3	38.8/20.6	
LRC [A]	7.7x(Code K)	5.6x(Code G)	6.7x(Code J)	
No load current [A]	2.75/1.38	2.70/1.35	3.08/1.63	
Rated speed [RPM]	1740	1410	1430	
Slip [%]	3.33	6.00	4.67	
Rated torque [kgfm]	0.834	1.03	1.02	
Locked rotor torque [%]	260	200	250	
Breakdown torque [%]	320	229	280	
Service factor		1.00	1.00	
Temperature rise	80 K	105 K	80 K	
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%			
	50%	85.5	85.9	84.6
	75%	86.5	85.0	85.2
	100%	86.5	82.2	83.8
Power Factor	25%			
	50%	0.61	0.69	0.61
	75%	0.74	0.80	0.74
	100%	0.81	0.85	0.81
Bearing type	: <u>Drive end</u> 6204 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction	: 83 kgf	
		Max. compression	: 100 kgf	
Lubrication interval	: - -			
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 5.95A SF 1.00 SFA 5.95A				
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 1 / 4	Revision
Checked by				
Date	17/05/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

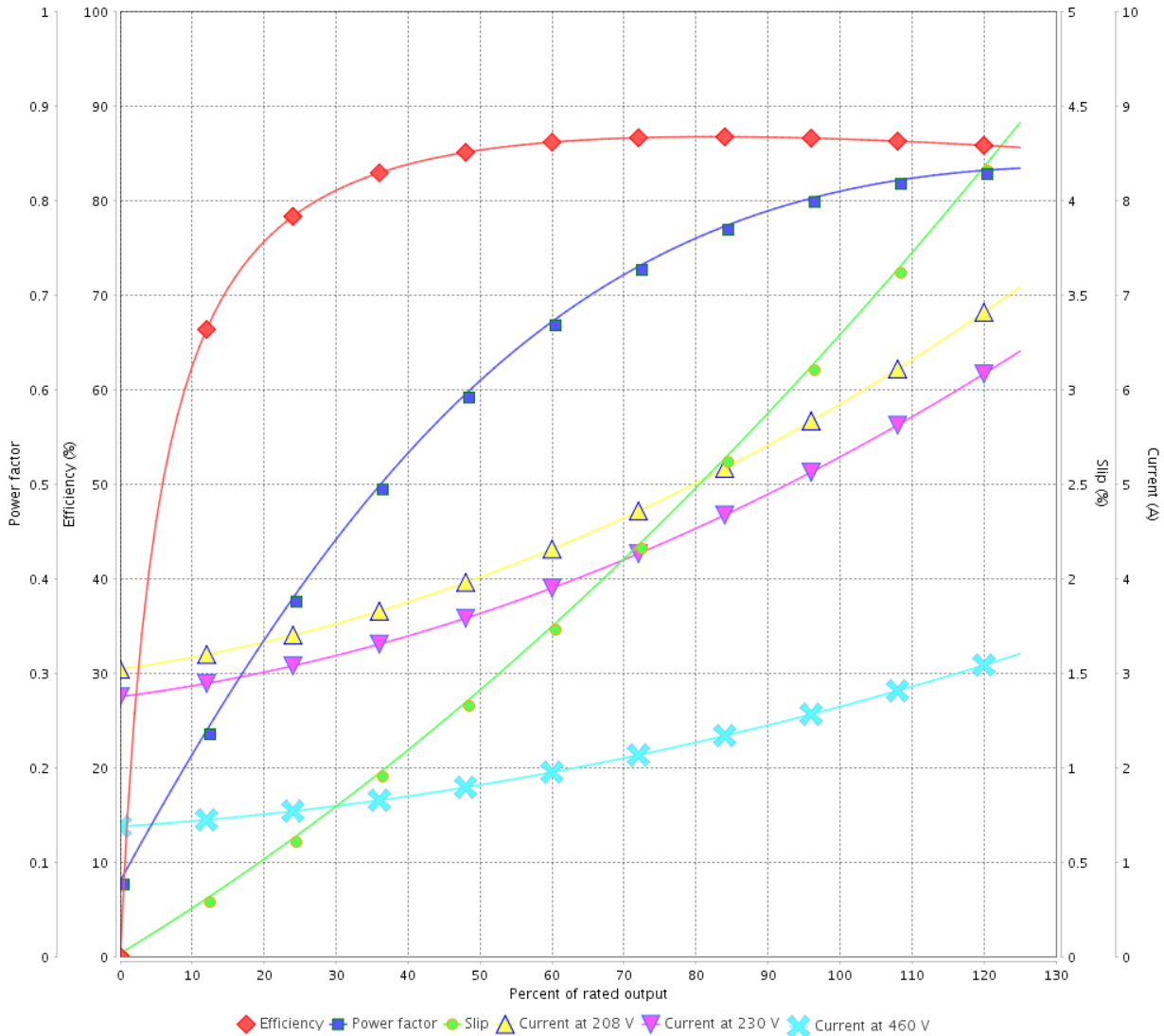


Customer :

Product line : Three-Phase

Product code : 13702735

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Performance : 230/460 V 60 Hz 4P

Rated current : 5.38/2.69 A
 LRC : 7.7
 Rated torque : 0.834 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 320 %
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0049 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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Performed by			Page 2 / 4	Revision
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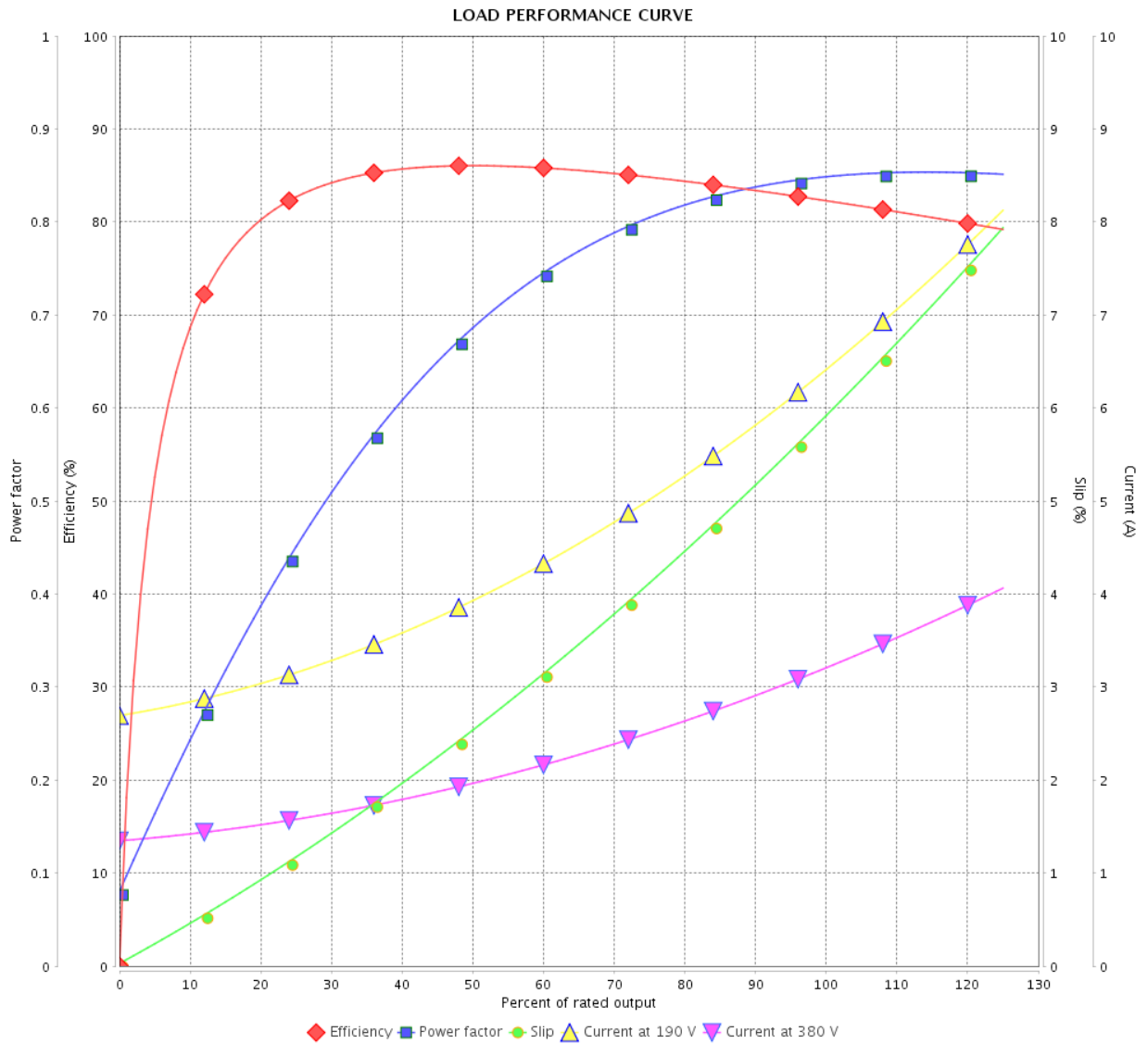
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Three-Phase

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Performance : 190/380 V 50 Hz 4P

Rated current : 6.52/3.26 A
 LRC : 5.6
 Rated torque : 1.03 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 1410 rpm

Moment of inertia (J) : 0.0049 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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Date				

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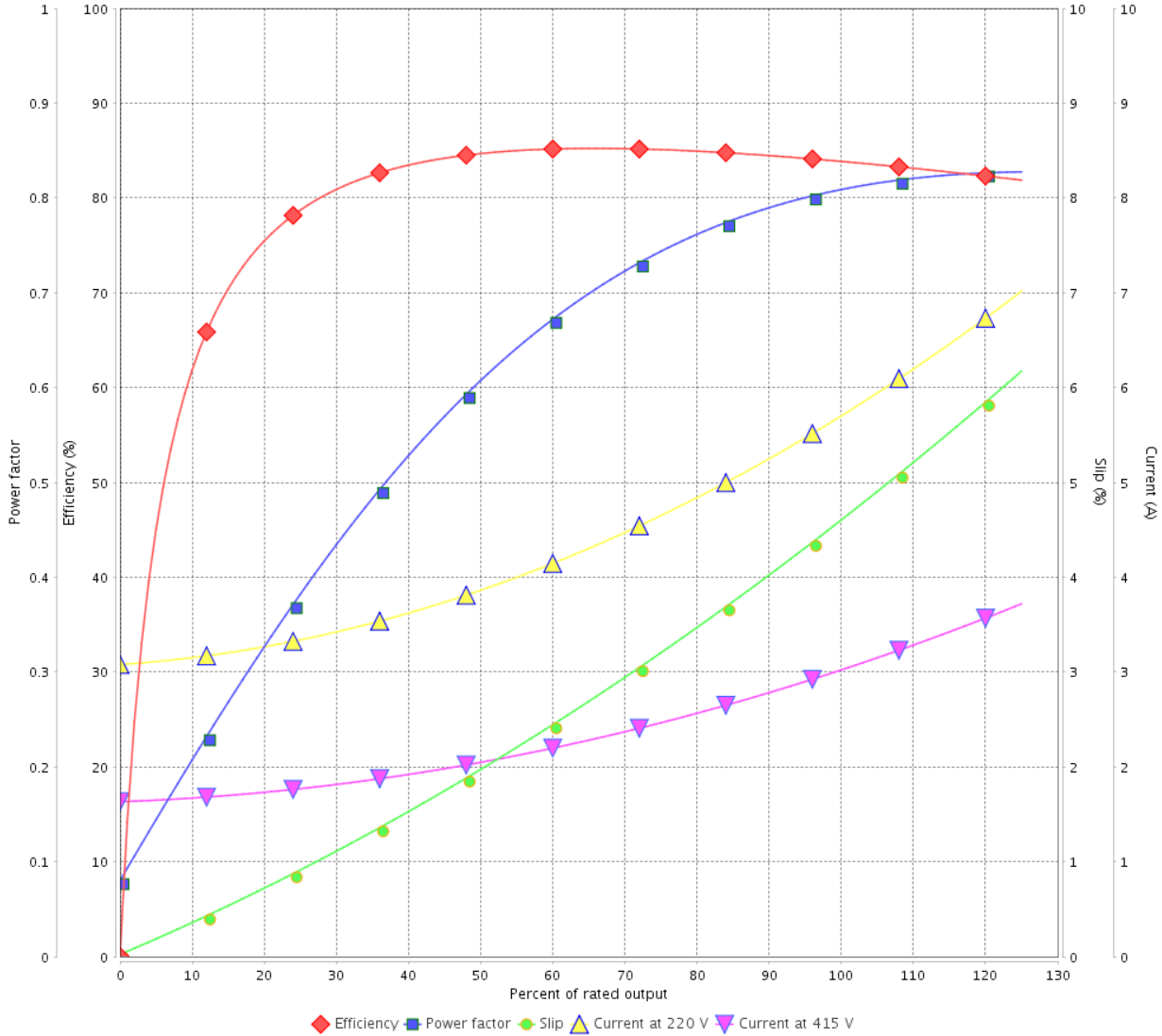


Customer : _____

Product line : Three-Phase

Product code : 13702735

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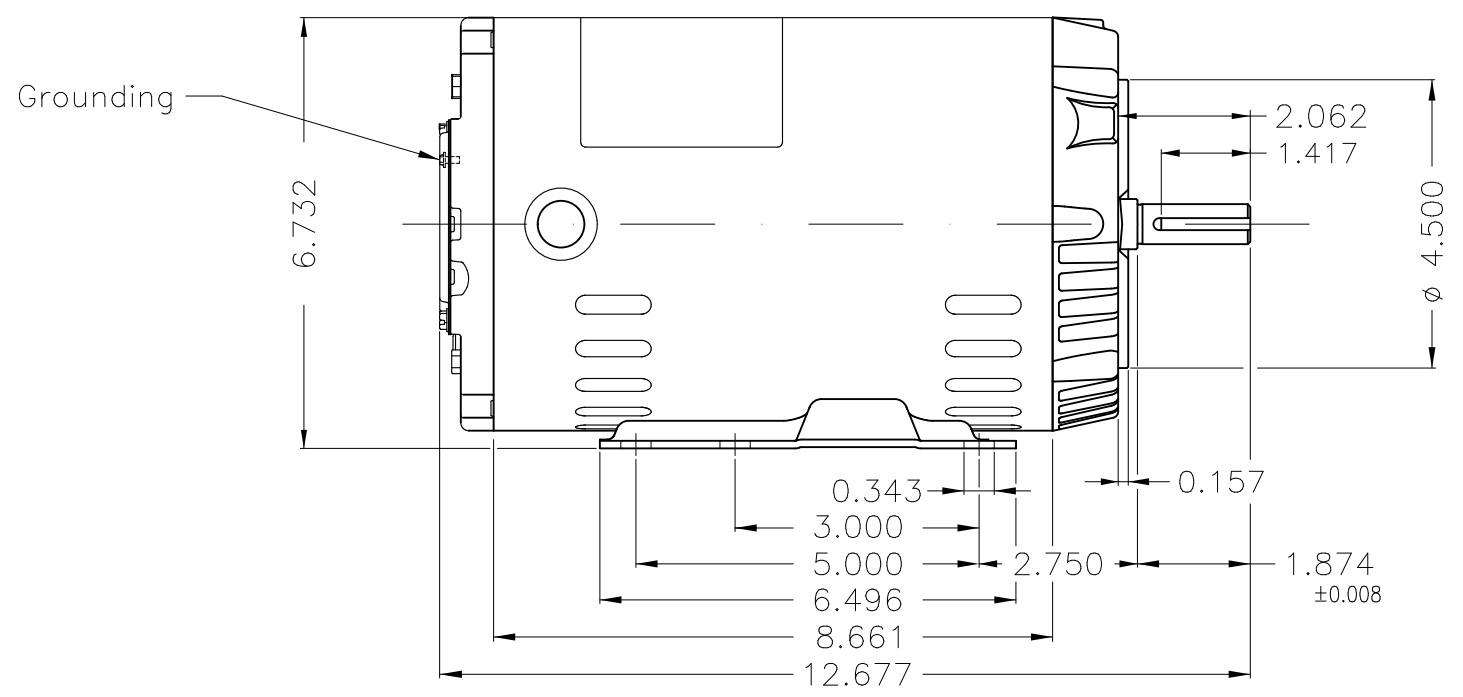
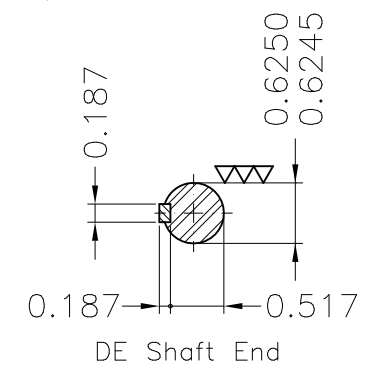
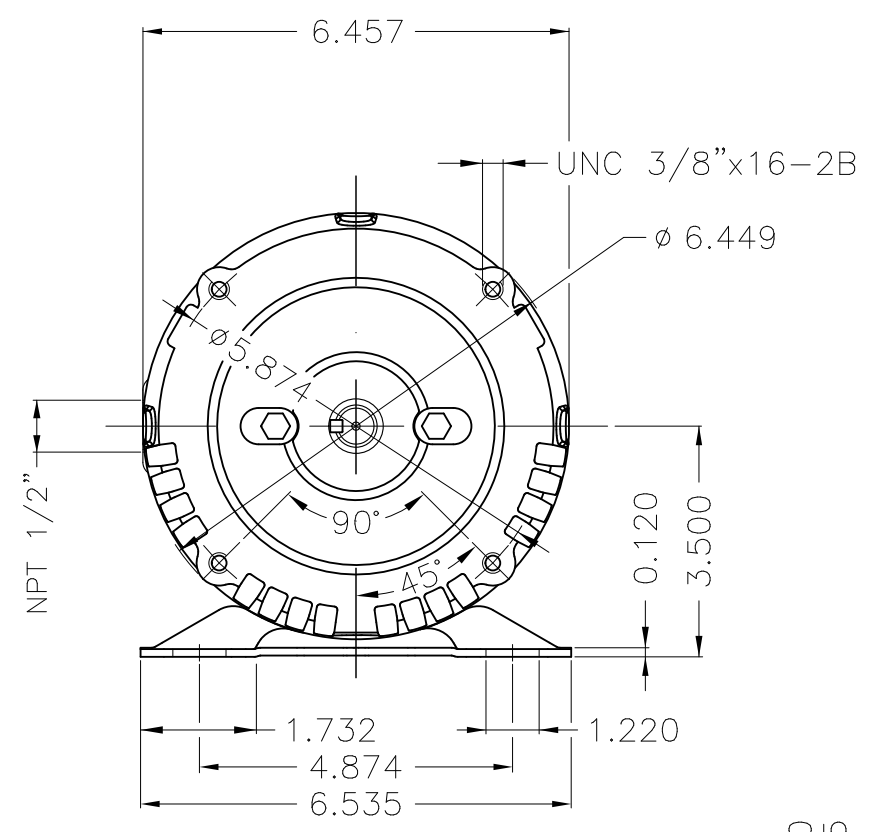


Performance : 220/415 V 50 Hz 4P

Rated current : 5.79/3.07 A
 LRC : 6.7
 Rated torque : 1.02 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 280 %
 Rated speed : 1430 rpm

Moment of inertia (J) : 0.0049 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
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Color Munsell N 1 matte black
 Painting plan 207N
 Mounting F-1/B34R(D)

						HYBRISUSER								00		
ECM	LOC	SUMMARY OF MODIFICATIONS						EXECUTED	CHECKED	RELEASED	DATE	VER				
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 56HC IP21 ODP												PREVIEW		
CHECKED														WDD 00		
RELEASED														SHEET 1 / 1		
REL. DATE		WMO Jaragua do Sul		Product Engineering												

2 HP 04 Poles 60 Hz

