

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12674796	
Frame	: 182/4T	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 ²	: 31.3 kg	
Design	: B	Moment of inertia (J)	: 0.0130 kgm ²	
Output [HP]	3	3	3	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	7.72/3.86	9.08/4.54	8.41/4.46	
L. R. Amperes [A]	64.8/32.4	58.1/29.1	59.7/31.7	
LRC [A]	8.4x(Code K)	6.4x(Code H)	7.1x(Code J)	
No load current [A]	4.14/2.07	4.08/2.04	4.20/2.22	
Rated speed [RPM]	1765	1460	1465	
Slip [%]	1.94	2.67	2.33	
Rated torque [kgfm]	1.23	1.49	1.49	
Locked rotor torque [%]	220	150	170	
Breakdown torque [%]	330	240	280	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	
Efficiency (%)	25%	86.4	85.6	88.0
	50%	87.5	86.0	87.3
	75%	88.5	86.5	87.9
	100%	89.5	86.7	86.9
Power Factor	25%	0.35	0.42	0.37
	50%	0.60	0.68	0.63
	75%	0.73	0.79	0.76
	100%	0.80	0.85	0.82
Bearing type	: Drive end 6206 ZZ Non drive end 6205 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 71 kgf	
		Max. compression	: 103 kgf	
Lubrication interval	: - -			
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 8.54A SF 1.00 SFA 8.54A				
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			Page	Revision
Date	13/05/2022		1 / 4	

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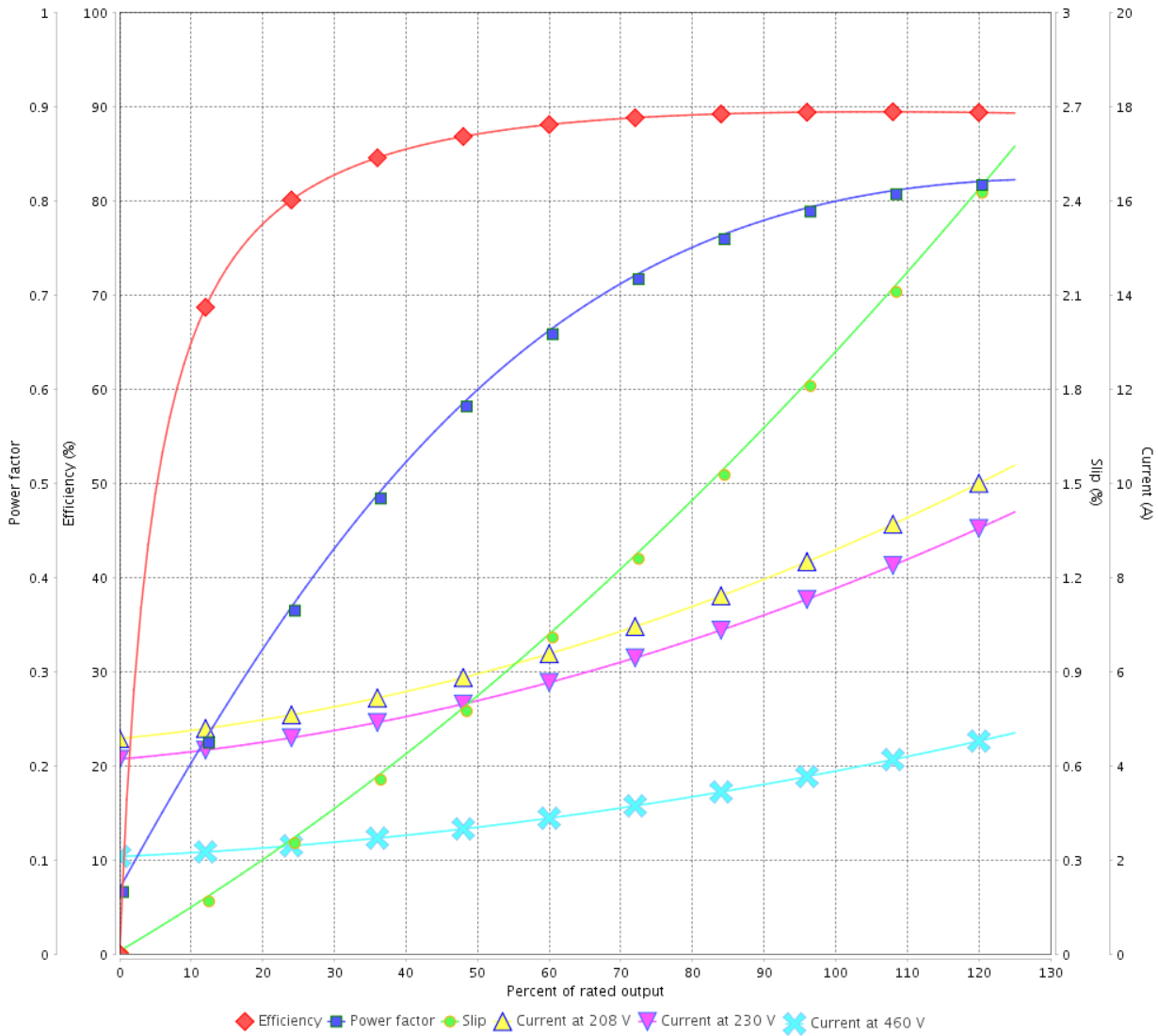
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12674796

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Performance : 230/460 V 60 Hz 4P

Rated current : 7.72/3.86 A
 LRC : 8.4
 Rated torque : 1.23 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 330 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0130 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Date				

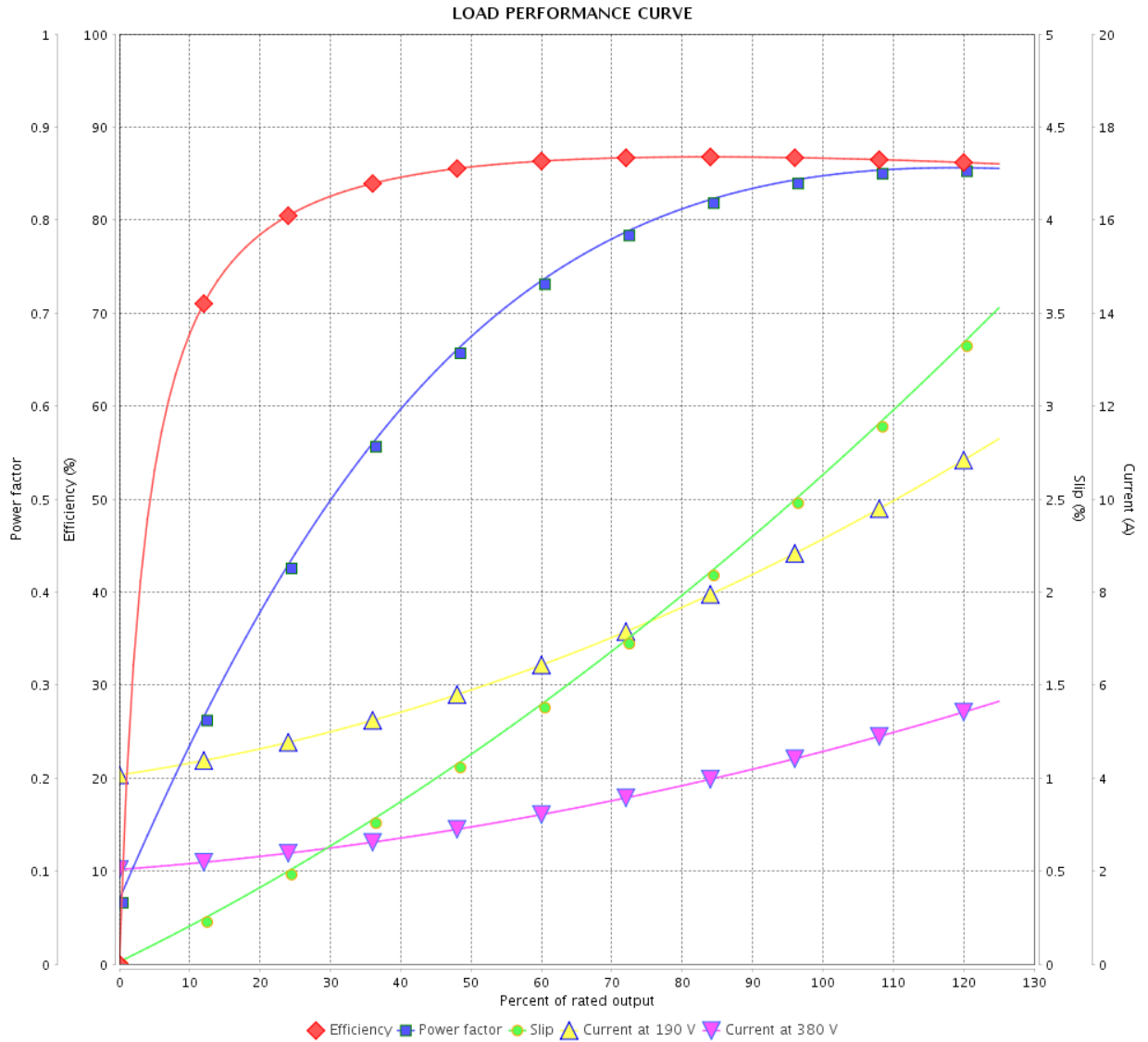
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190/380 V 50 Hz 4P

Rated current : 9.08/4.54 A
 LRC : 6.4
 Rated torque : 1.49 kgfm
 Locked rotor torque : 150 %
 Breakdown torque : 240 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0130 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Date		13/05/2022		

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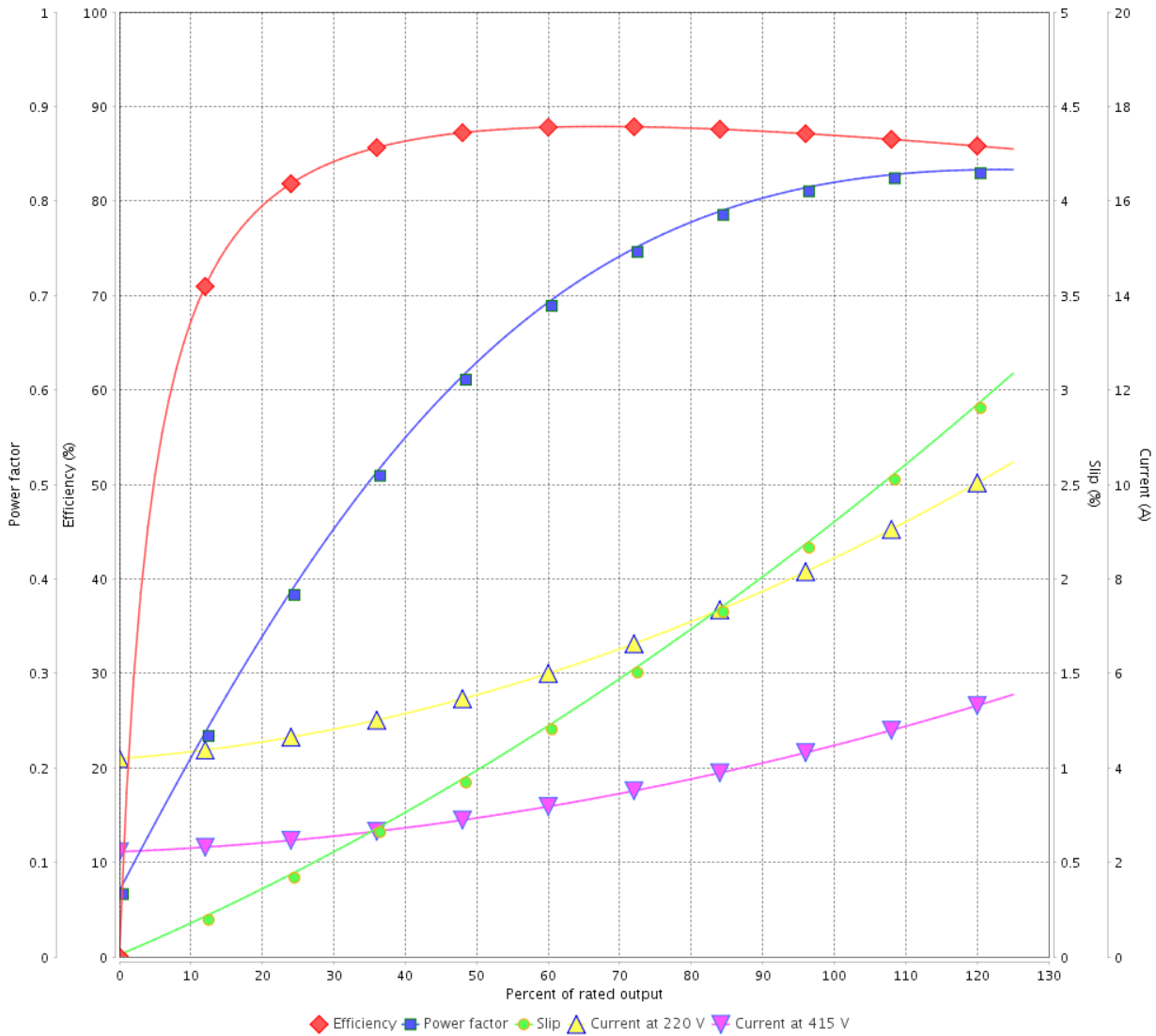
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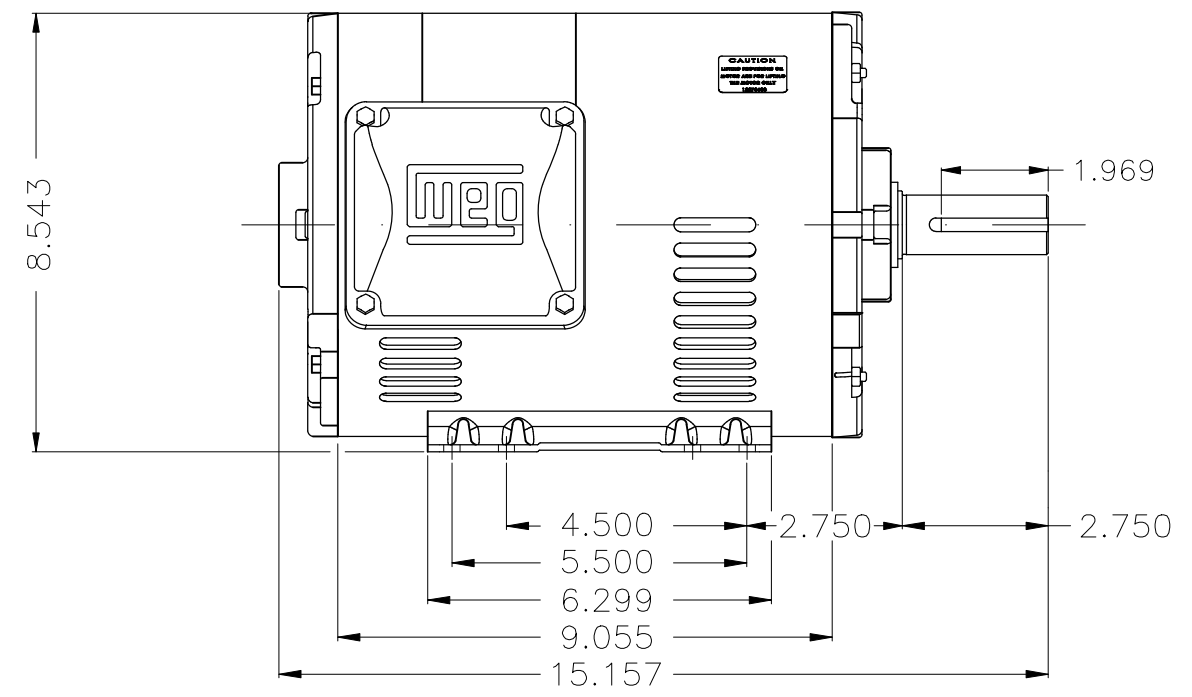
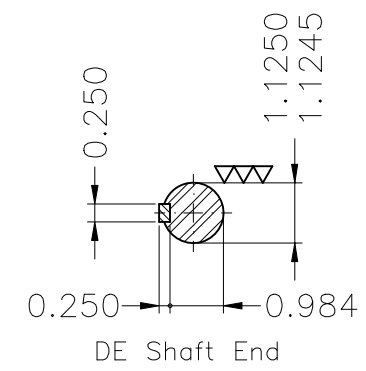
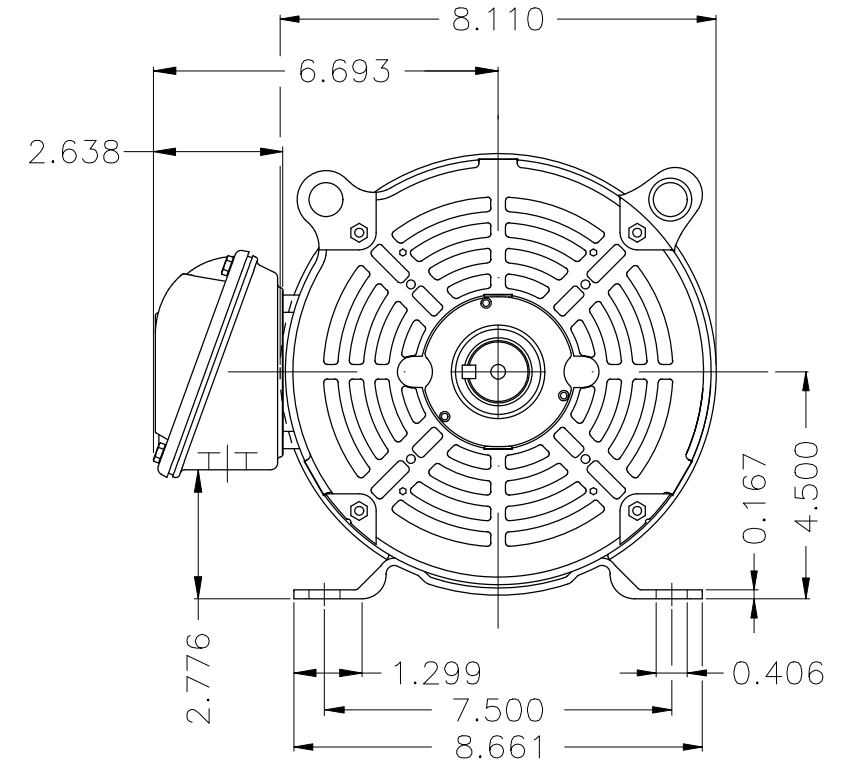
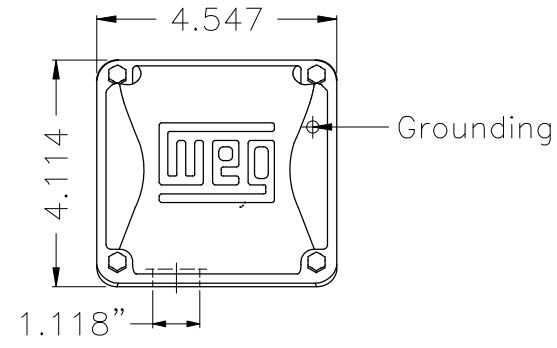


Performance : 220/415 V 50 Hz 4P

Rated current : 8.41/4.46 A
 LRC : 7.1
 Rated torque : 1.49 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 280 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.0130 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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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 NEMA PREM. EFF.				EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED				FRAME 182/4T IP21 ODP				EXECUTED	CHECKED	RELEASED	DATE	VER
RELEASED								EXECUTED	CHECKED	RELEASED	DATE	VER
REL. DATE		WMO		Jaragua do Sul				Product Engineering	SHEET	1 / 1	PREVIEW	WDD 00

3 HP 04 Poles 60 Hz

A

