

DATA SHEET

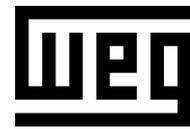
Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11438008	Catalog # :	02018ET3E256T-W22			
Frame	: 254/6T	Cooling method	: IC411 - TEFC					
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	: 170 kg					
Protection degree	: IP55	Moment of inertia (J)	: 0.1305 kgm ²					
Design	: B							
Output [HP]	20	15	15	15	20	20	20	
Poles	4	4	4	4	4	4	4	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	230/460	380	400	415	380	400	415	
Rated current [A]	48.2/24.1	21.8	21.2	20.6	29.4	28.0	27.1	
L. R. Amperes [A]	333/166	161	167	173	168	174	179	
LRC [A]	6.9x(Code H)	7.4x(Code H)	7.9x(Code J)	8.4x(Code K)	5.7x(Code F)	6.2x(Code G)	6.6x(Code H)	
No load current [A]	20.0/10.0	9.90	10.5	11.0	9.90	10.5	11.0	
Rated speed [RPM]	1765	1470	1475	1477	1455	1460	1465	
Slip [%]	1.94	2.00	1.67	1.53	3.00	2.67	2.33	
Rated torque [kgfm]	8.20	7.41	7.38	7.37	9.98	9.94	9.91	
Locked rotor torque [%]	270	250	280	300	190	210	229	
Breakdown torque [%]	280	310	350	370	220	240	270	
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K	
Locked rotor time	27s (cold) 15s (hot)	21s (cold) 12s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	
Noise level ²	64.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	
Efficiency (%)	25%	91.0	90.9	89.2	89.2	92.3	90.8	90.8
	50%	91.7	91.0	89.8	89.8	91.7	91.0	91.0
	75%	92.4	91.5	91.0	91.3	91.0	91.0	91.7
	100%	93.0	91.4	91.4	91.7	90.2	91.0	91.7
Power Factor	25%	0.43	0.40	0.37	0.35	0.49	0.46	0.44
	50%	0.68	0.65	0.62	0.60	0.75	0.72	0.70
	75%	0.79	0.78	0.75	0.73	0.83	0.81	0.80
	100%	0.84	0.84	0.82	0.81	0.86	0.85	0.84
Bearing type	: Drive end : 6309 C3 Non drive end : 6209 C3	Foundation loads	Max. traction : 336 kgf Max. compression : 506 kgf					
Sealing	: V'Ring V'Ring							
Lubrication interval	: 20000 h 20000 h							
Lubricant amount	: 13 g 9 g							
Lubricant type	: Mobil Polyrex EM							
Notes USABLE @208V 53.3A SF 1.15 SFA 61.3A								
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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

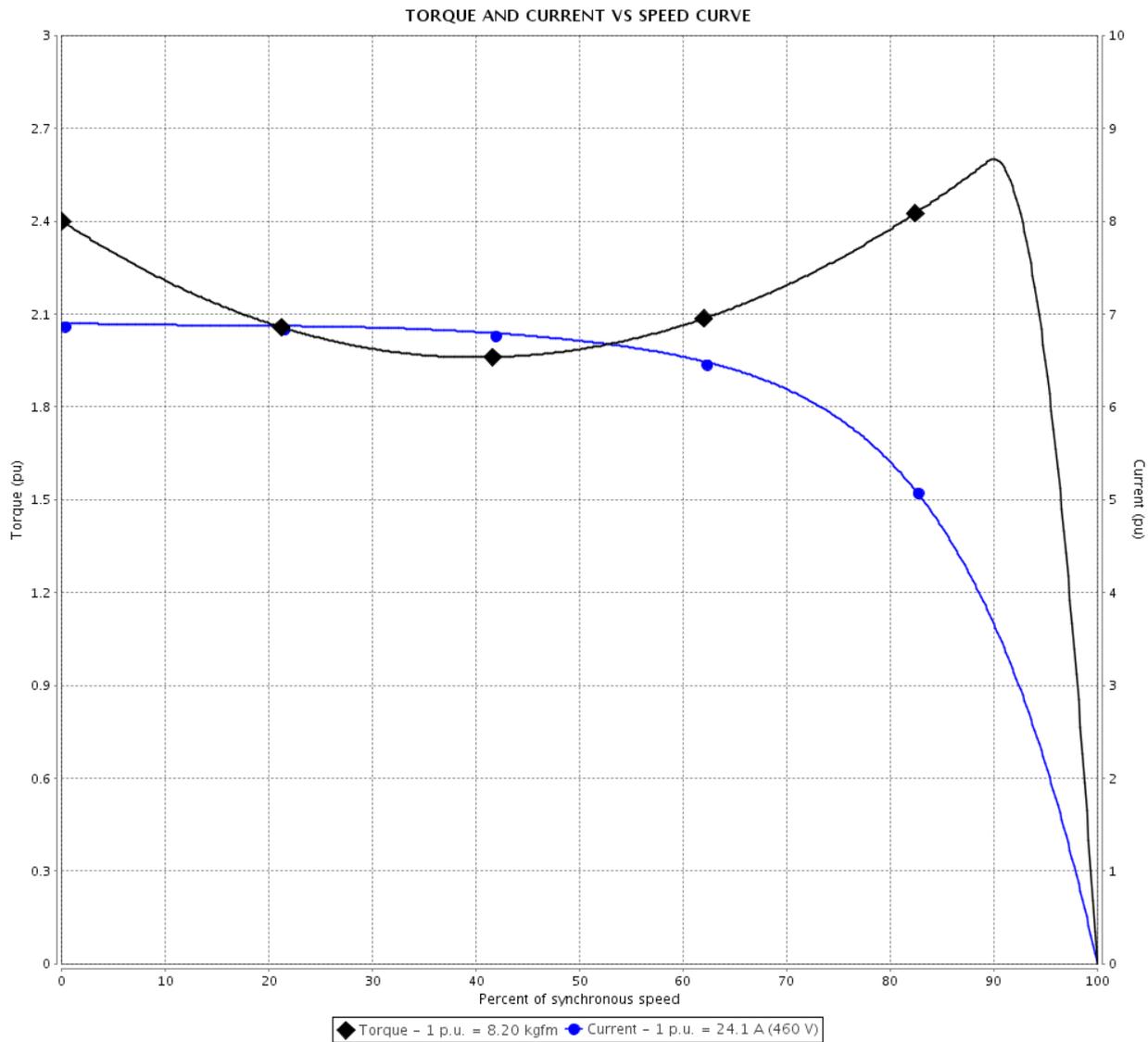


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 230/460 V 60 Hz 4P

Rated current : 48.2/24.1 A
LRC : 6.9
Rated torque : 8.20 kgfm
Locked rotor torque : 270 %
Breakdown torque : 280 %
Rated speed : 1765 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Locked rotor time : 27s (cold) 15s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



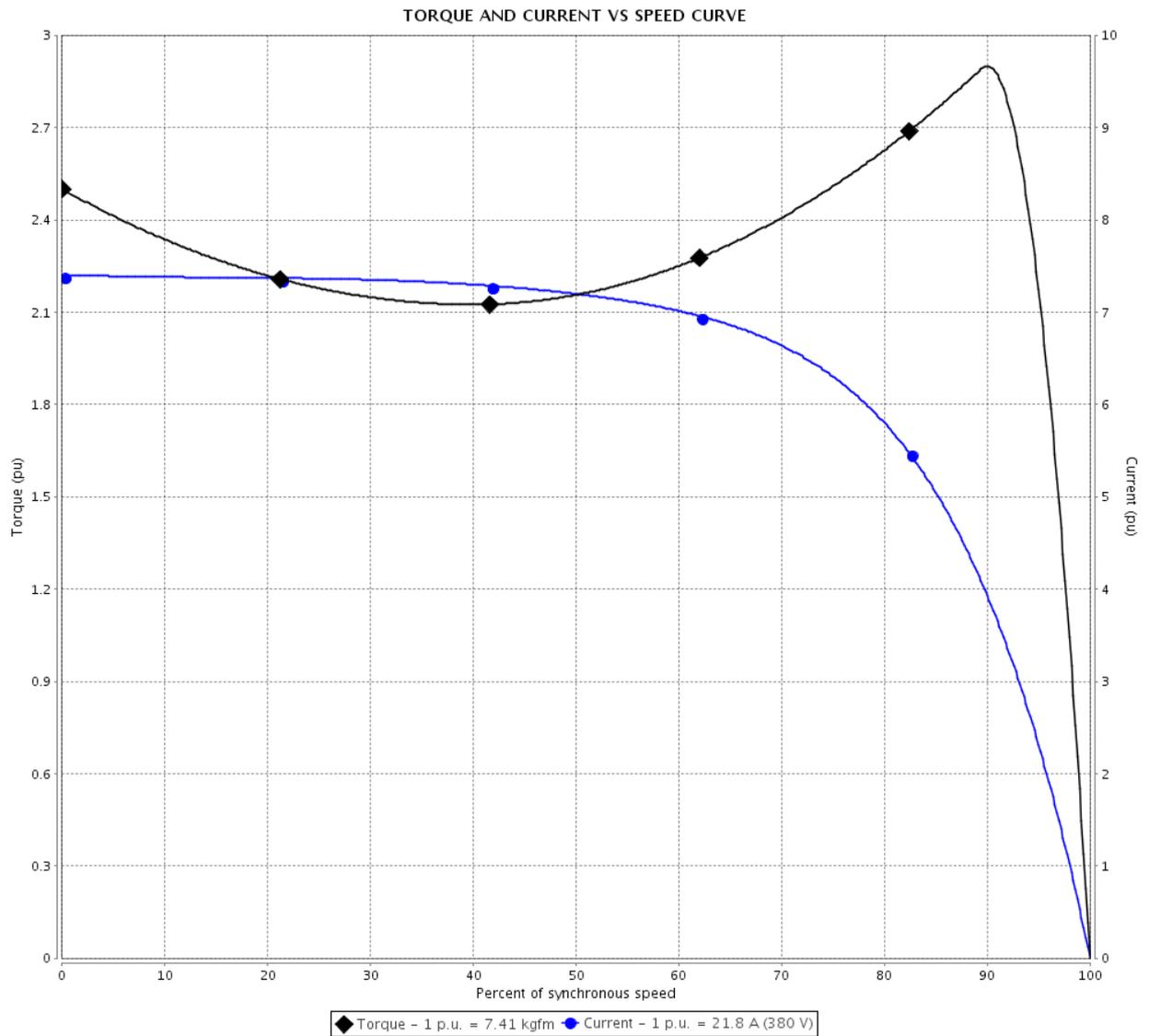
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency
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Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 380 V 50 Hz 4P IE3

Rated current	: 21.8 A	Moment of inertia (J)	: 0.1305 kgm ²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 7.41 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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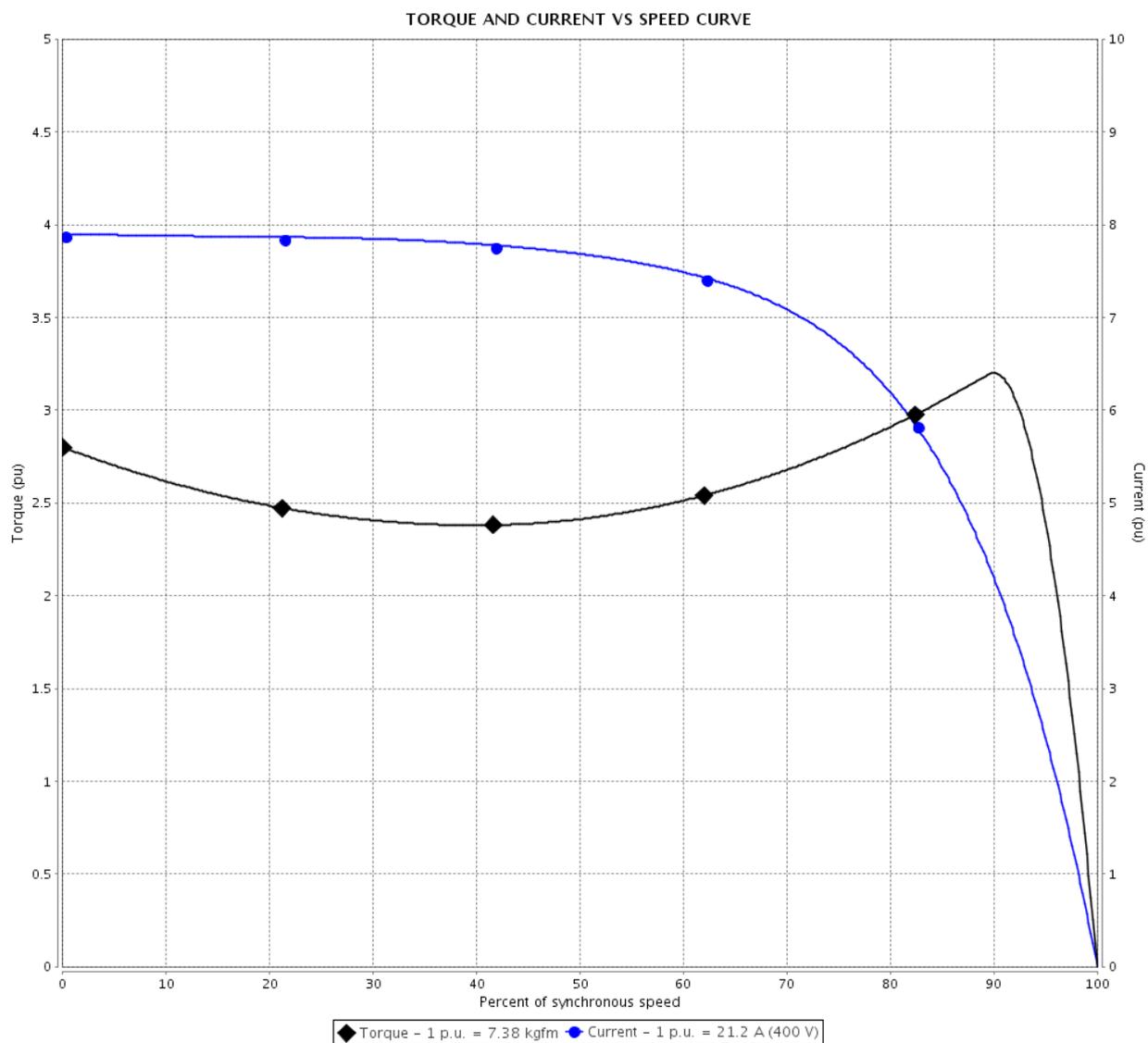


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 400 V 50 Hz 4P IE3

Rated current	: 21.2 A	Moment of inertia (J)	: 0.1305 kgm ²
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 7.38 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

Locked rotor time : 25s (cold) 14s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



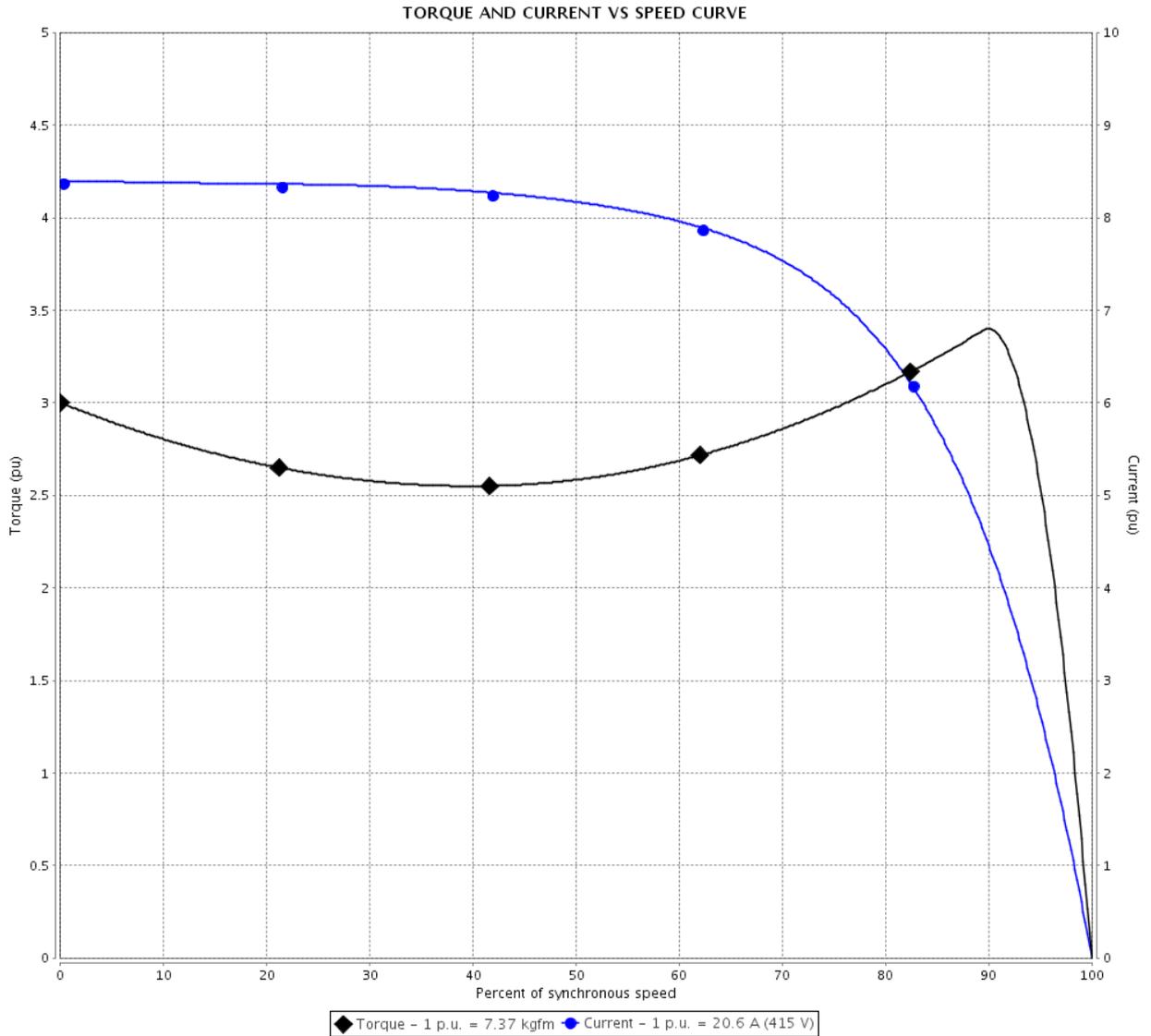
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Performance : 415 V 50 Hz 4P IE3

Rated current : 20.6 A
LRC : 8.4
Rated torque : 7.37 kgfm
Locked rotor torque : 300 %
Breakdown torque : 370 %
Rated speed : 1477 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

Locked rotor time : 25s (cold) 14s (hot)

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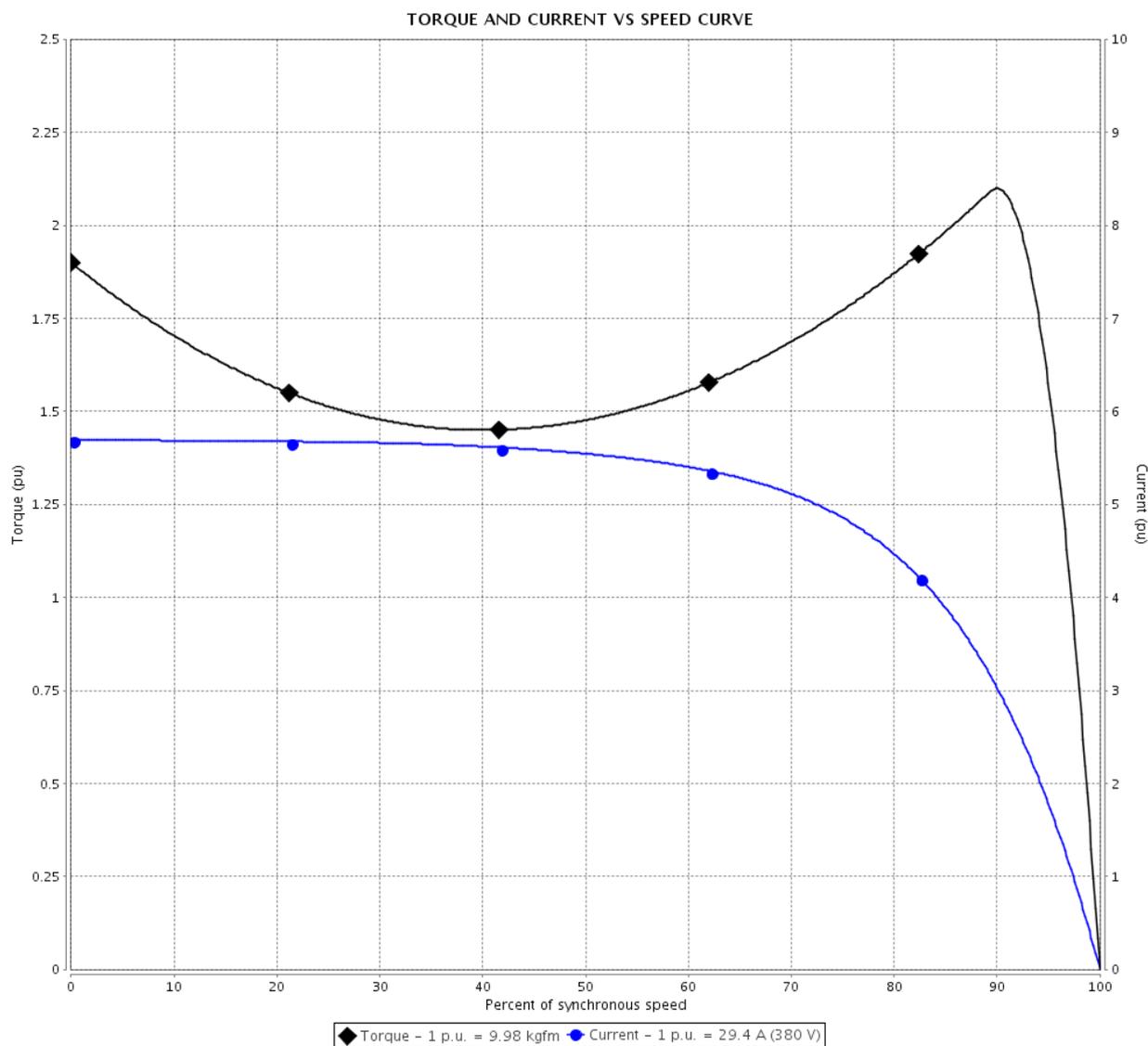


Customer :

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Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 380 V 50 Hz 4P IE1

Rated current	: 29.4 A	Moment of inertia (J)	: 0.1305 kgm ²
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 9.98 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 1455 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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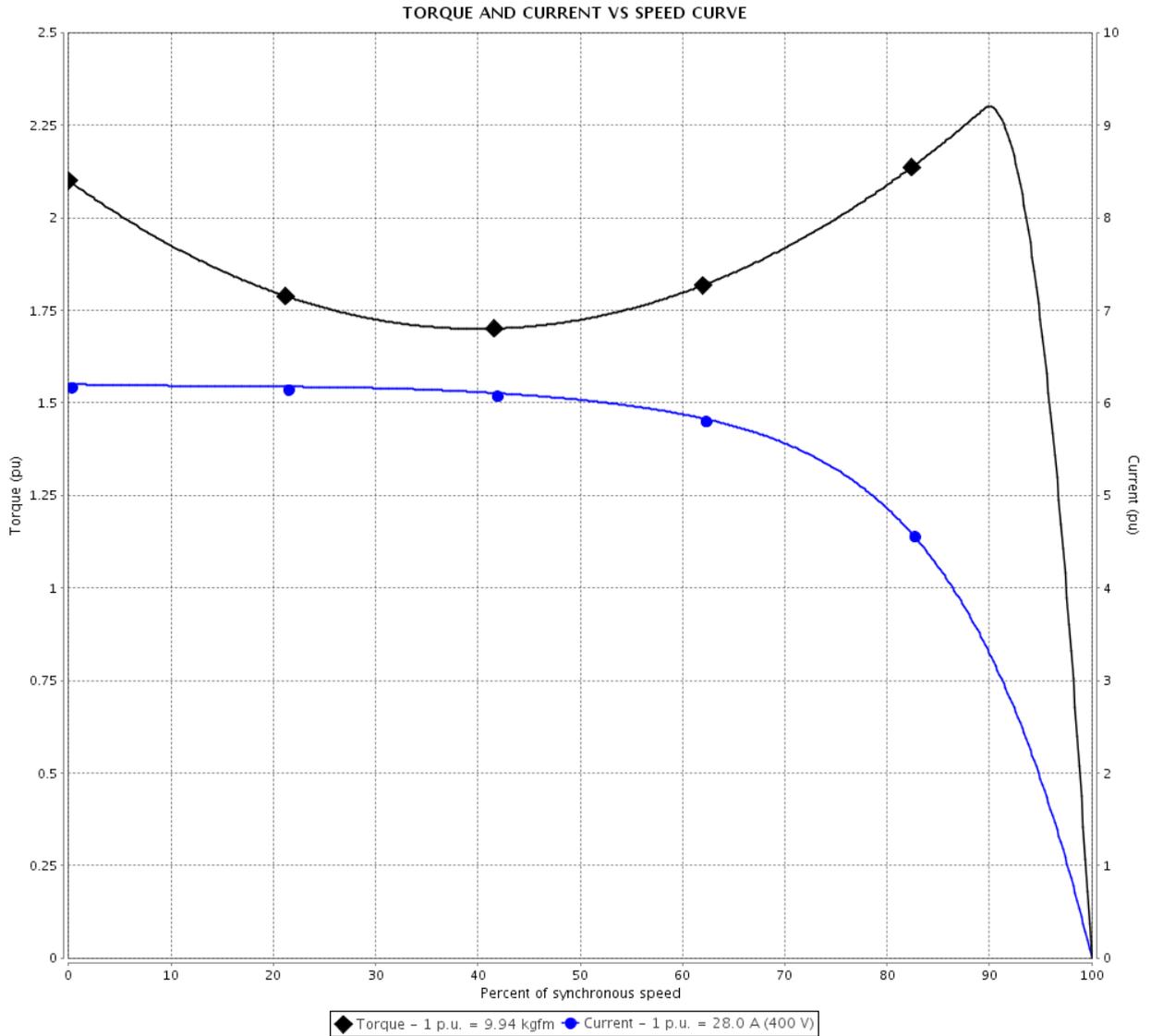
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Performance : 400 V 50 Hz 4P IE2

Rated current : 28.0 A
LRC : 6.2
Rated torque : 9.94 kgfm
Locked rotor torque : 210 %
Breakdown torque : 240 %
Rated speed : 1460 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

Locked rotor time : 25s (cold) 14s (hot)

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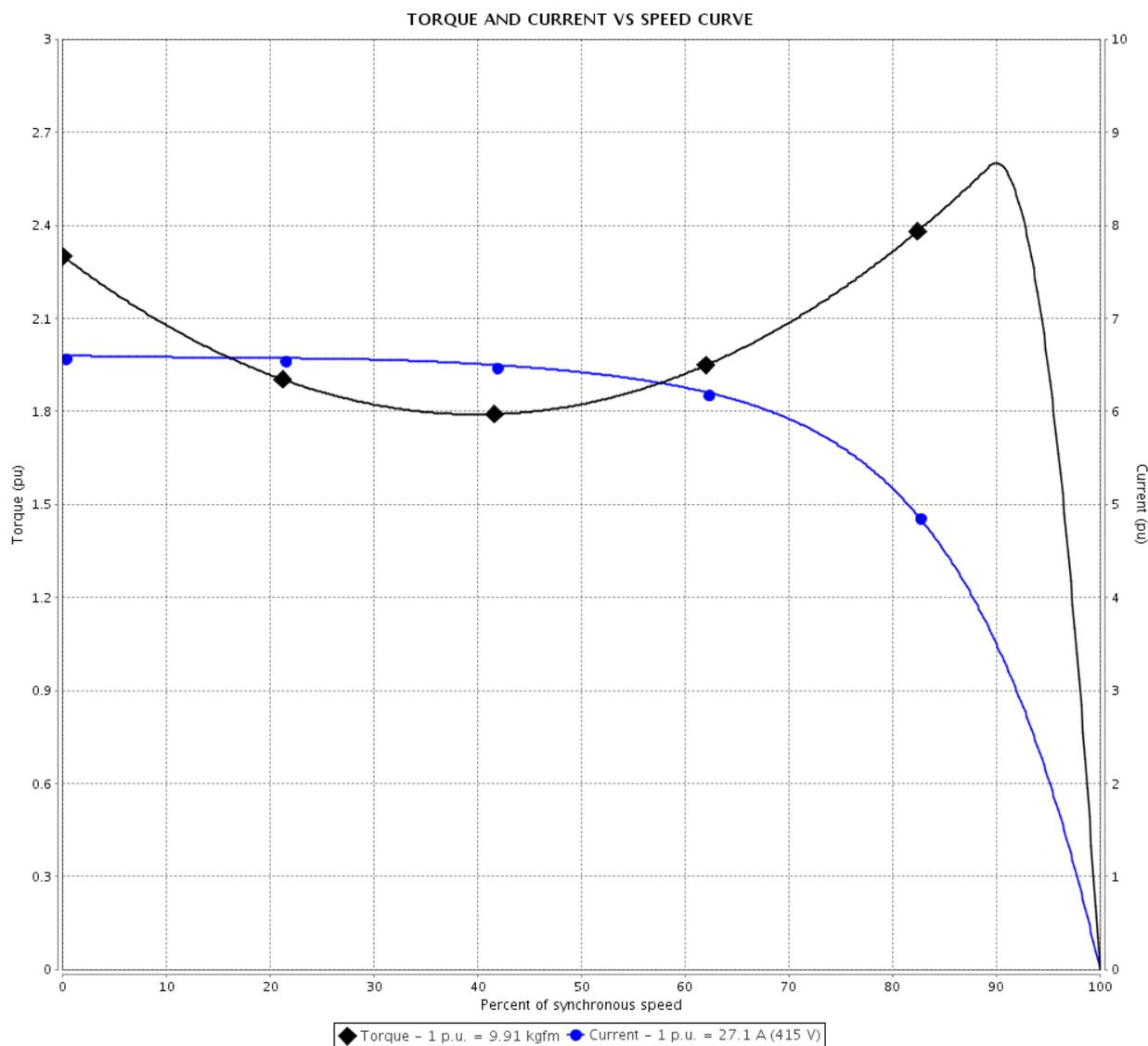


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Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 415 V 50 Hz 4P IE2

Rated current	: 27.1 A	Moment of inertia (J)	: 0.1305 kgm ²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 9.91 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 1465 rpm	Design	: B

Locked rotor time : 25s (cold) 14s (hot)

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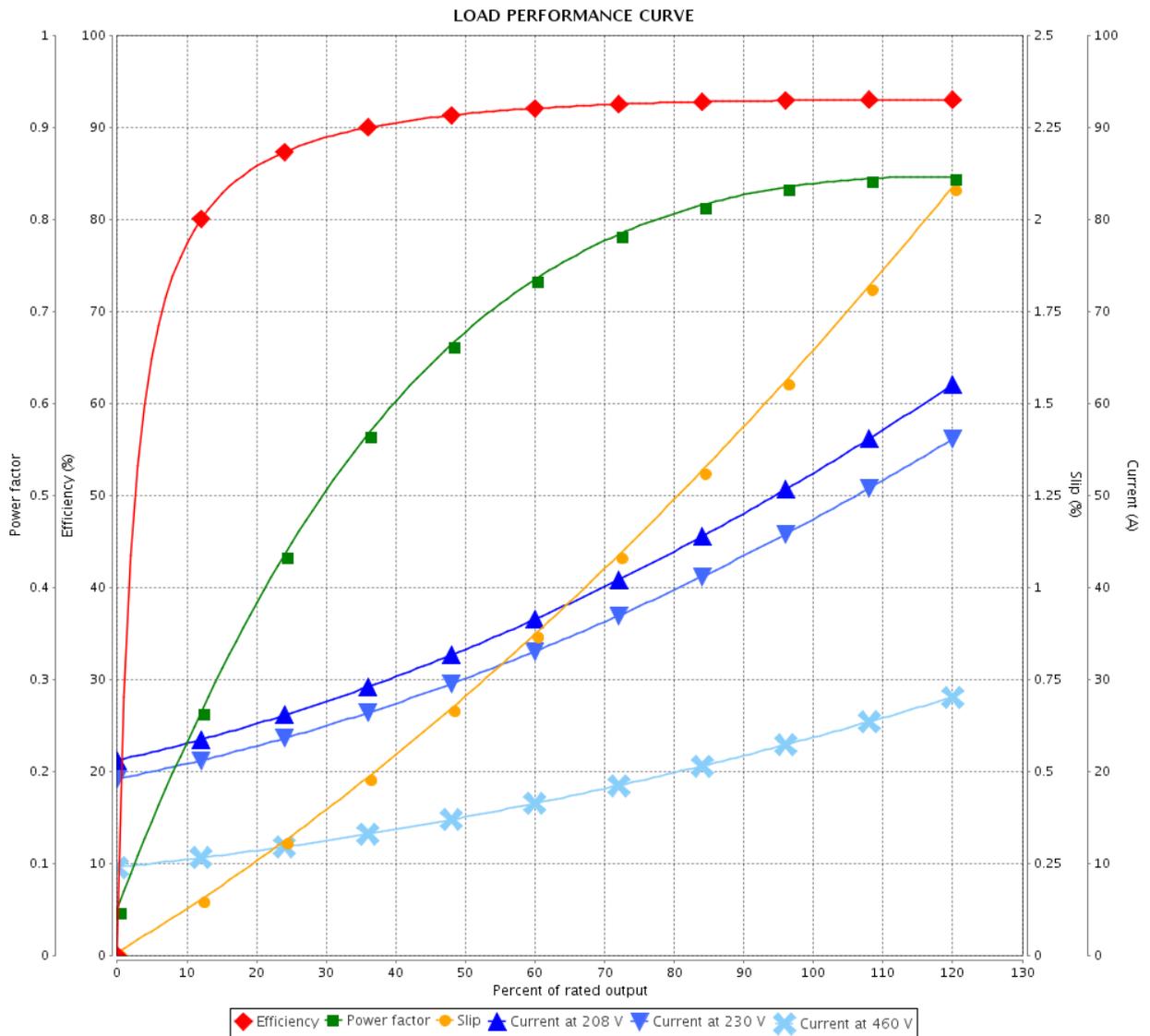


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Performance : 230/460 V 60 Hz 4P

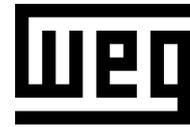
Rated current : 48.2/24.1 A
 LRC : 6.9
 Rated torque : 8.20 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 280 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.1305 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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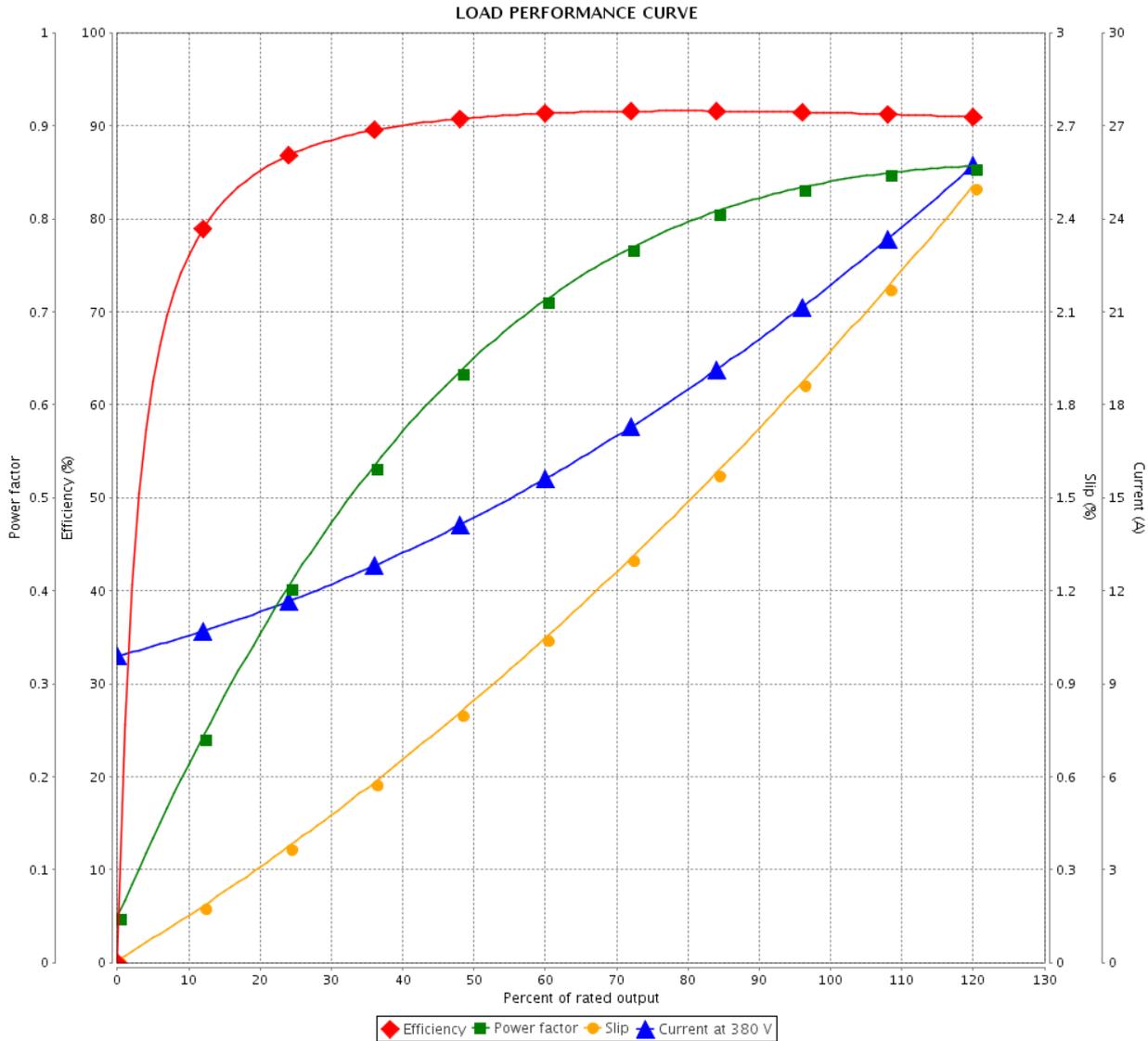


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Performance : 380 V 50 Hz 4P IE3

Rated current : 21.8 A
 LRC : 7.4
 Rated torque : 7.41 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 310 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.1305 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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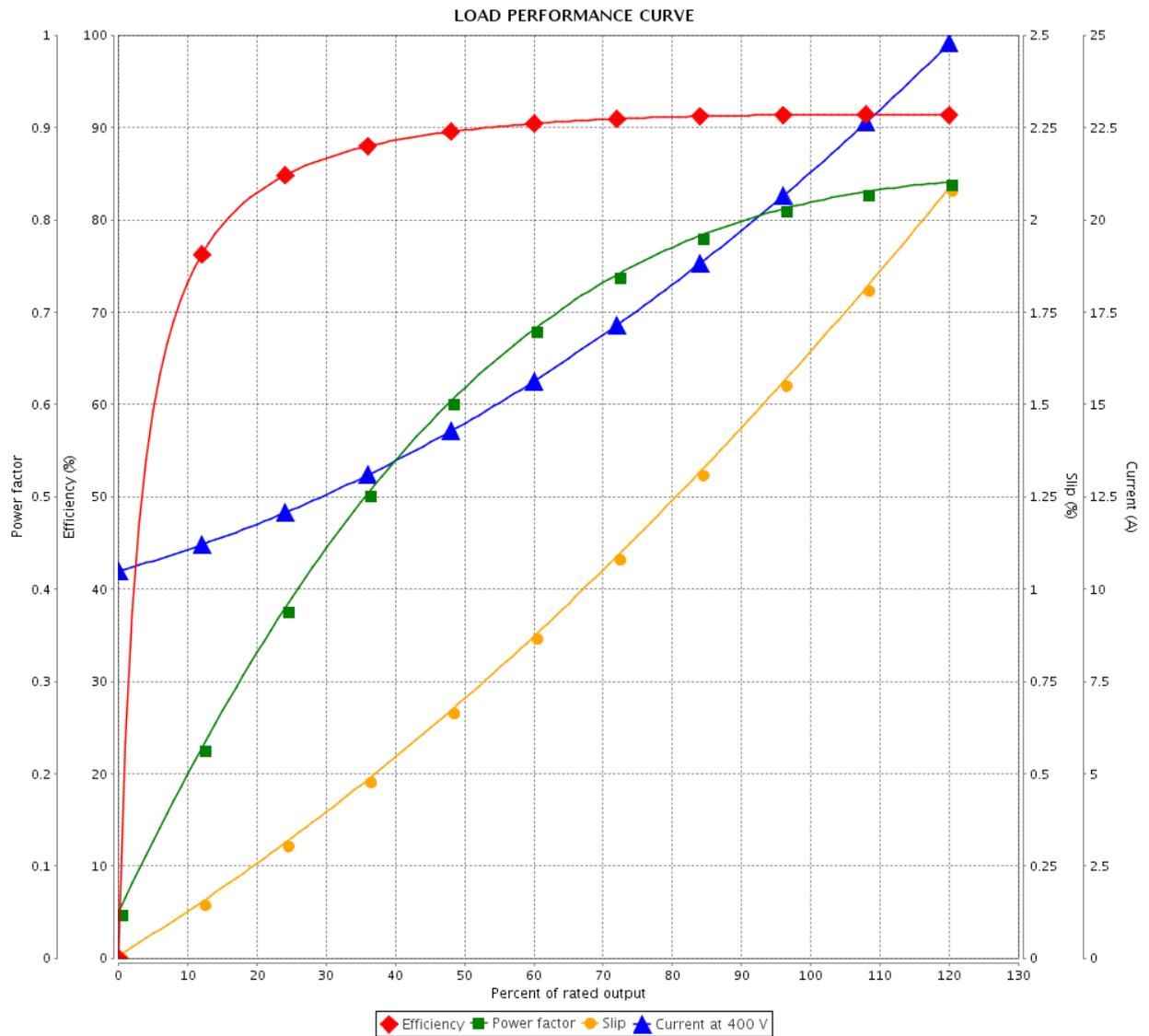


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Performance : 400 V 50 Hz 4P IE3

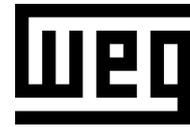
Rated current : 21.2 A
 LRC : 7.9
 Rated torque : 7.38 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 350 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.1305 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

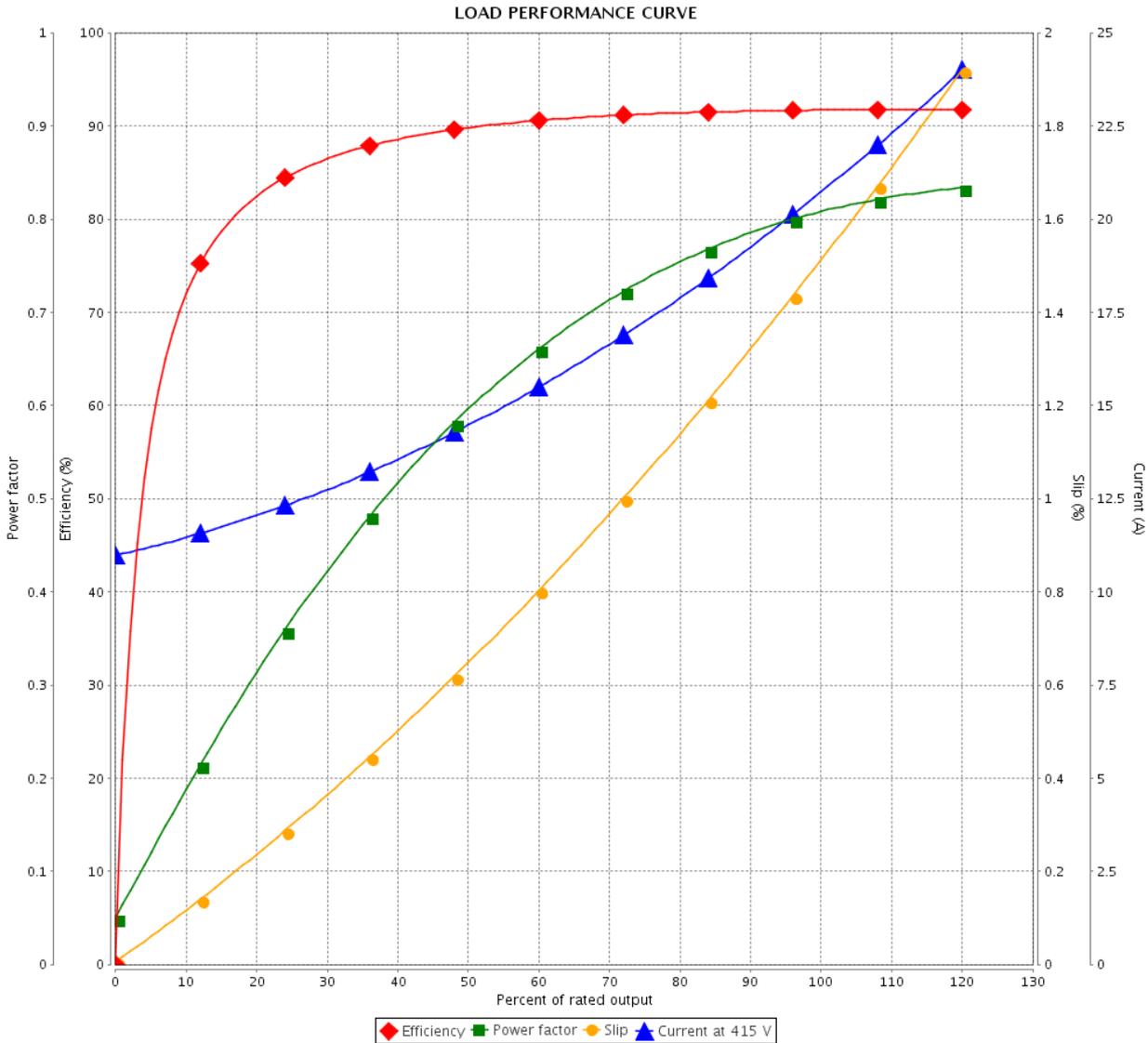


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Performance : 415 V 50 Hz 4P IE3

Rated current : 20.6 A
 LRC : 8.4
 Rated torque : 7.37 kgfm
 Locked rotor torque : 300 %
 Breakdown torque : 370 %
 Rated speed : 1477 rpm

Moment of inertia (J) : 0.1305 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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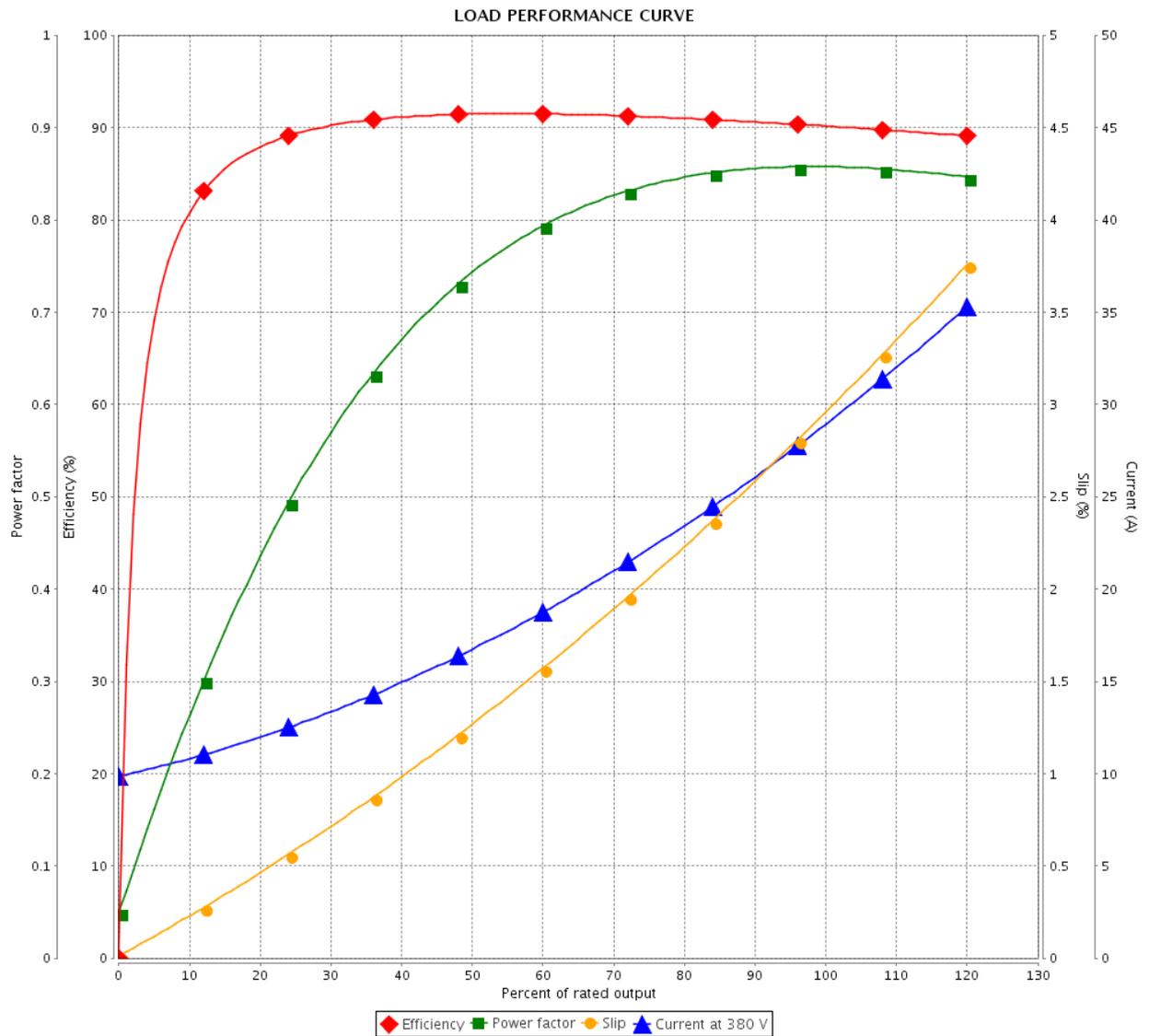


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Performance : 380 V 50 Hz 4P IE1

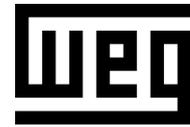
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 LRC : 5.7
 Rated torque : 9.98 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 220 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.1305 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

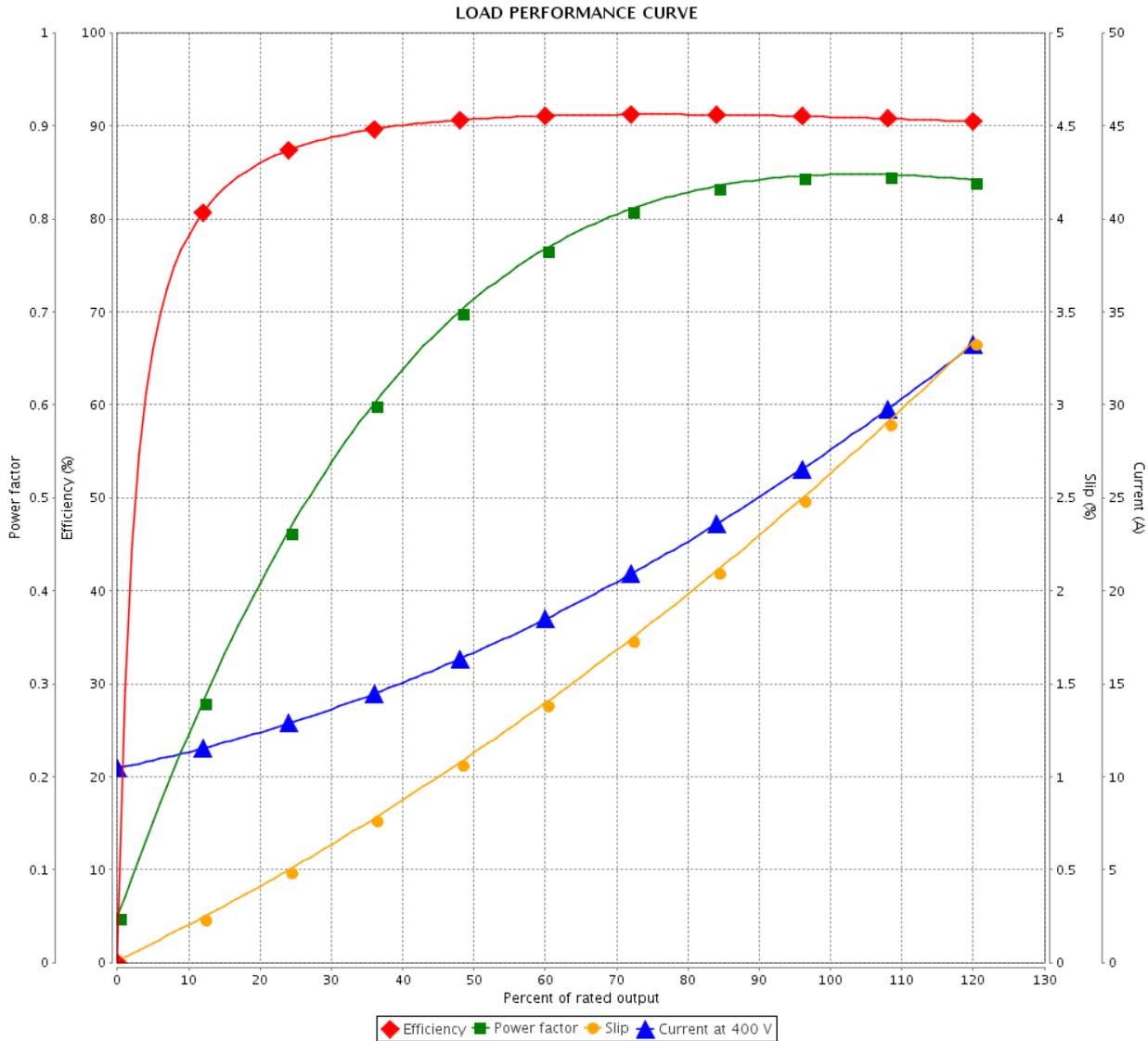


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Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 400 V 50 Hz 4P IE2

Rated current : 28.0 A
 LRC : 6.2
 Rated torque : 9.94 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.1305 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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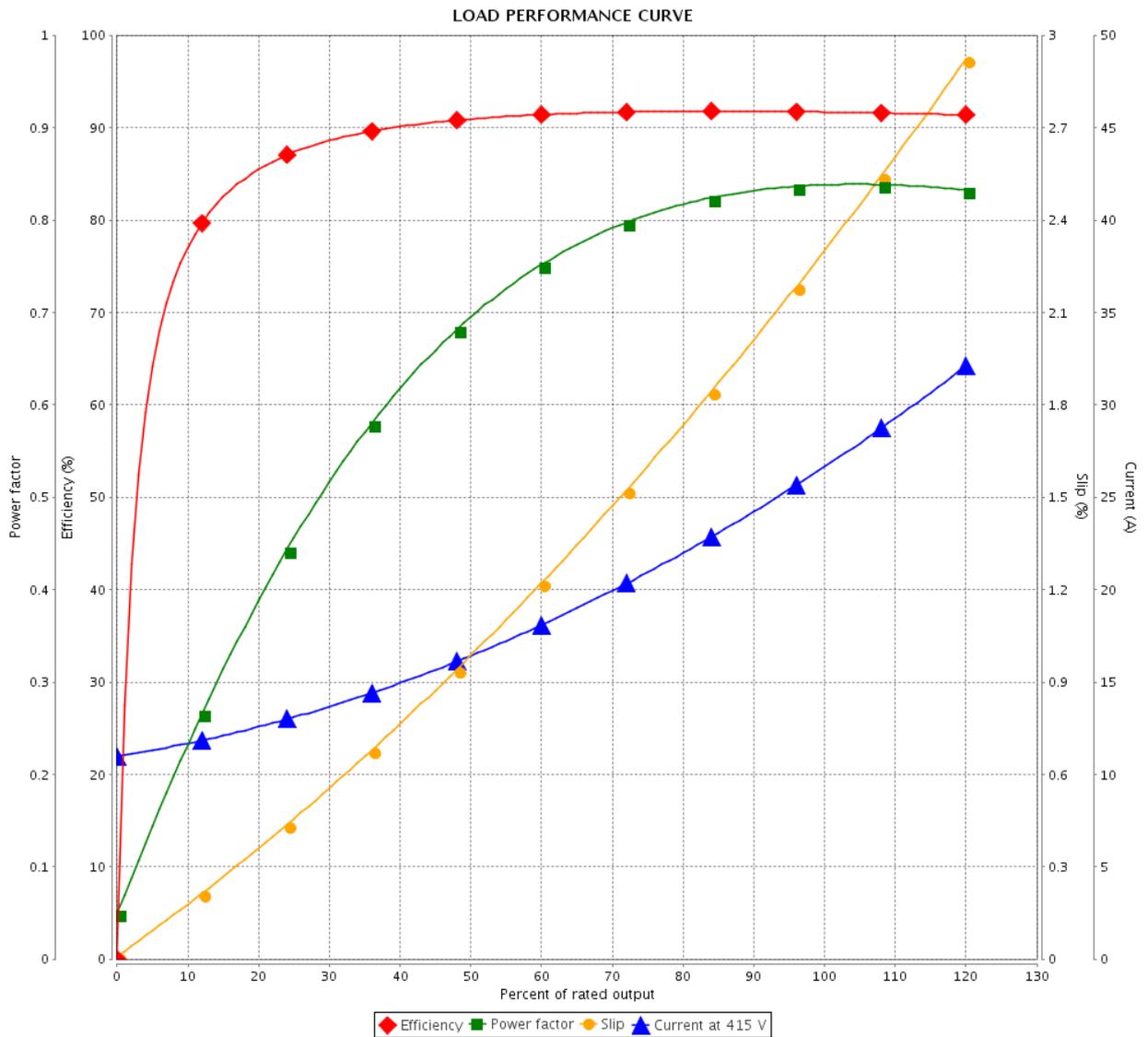


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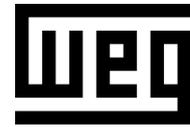
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 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.1305 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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THERMAL LIMIT CURVE



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Performance : 230/460 V 60 Hz 4P

Rated current : 48.2/24.1 A
LRC : 6.9
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Locked rotor torque : 270 %
Breakdown torque : 280 %
Rated speed : 1765 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

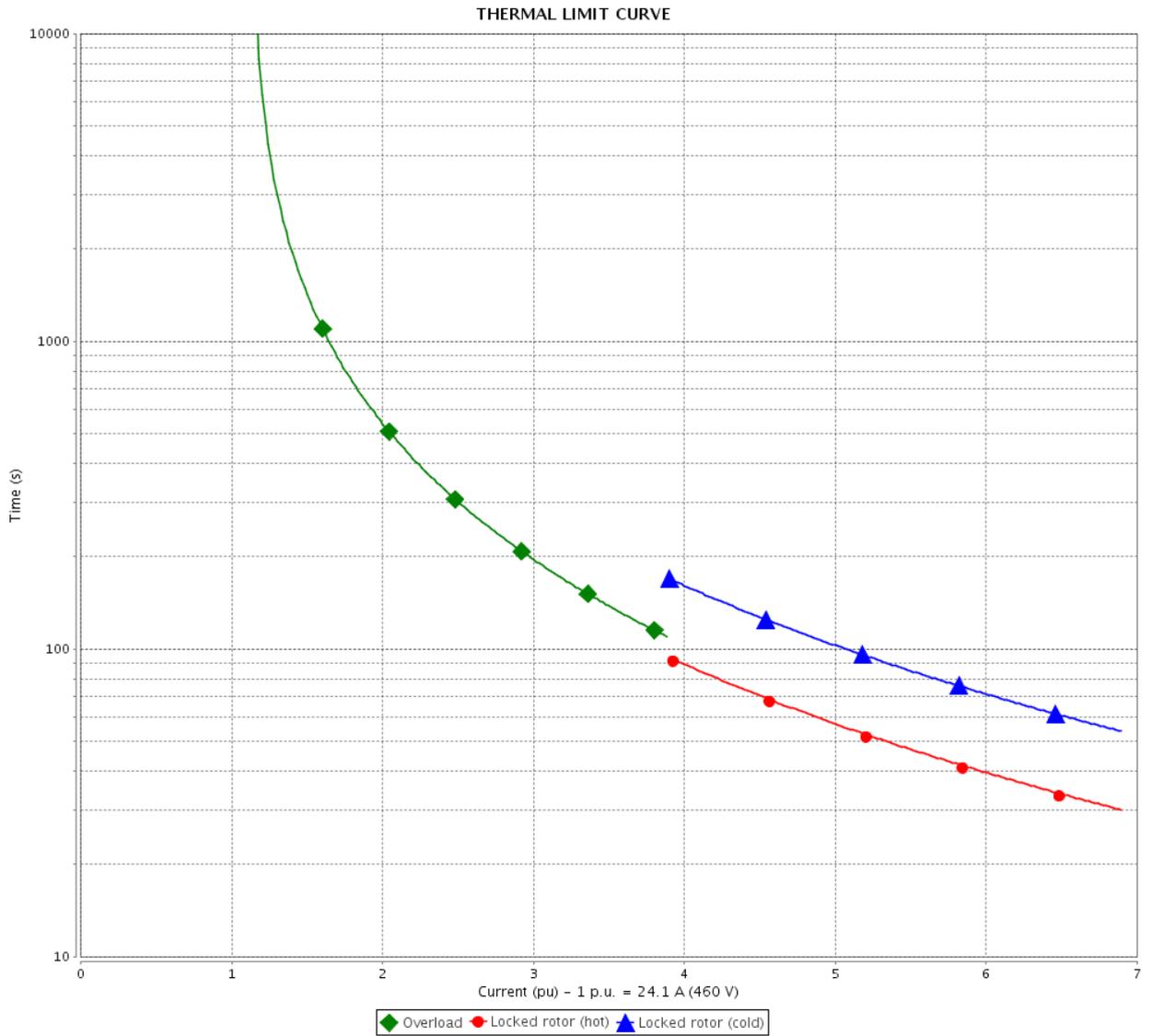
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THERMAL LIMIT CURVE

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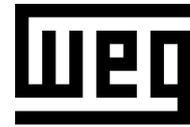
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LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 7.41 kgfm	Insulation class	: F
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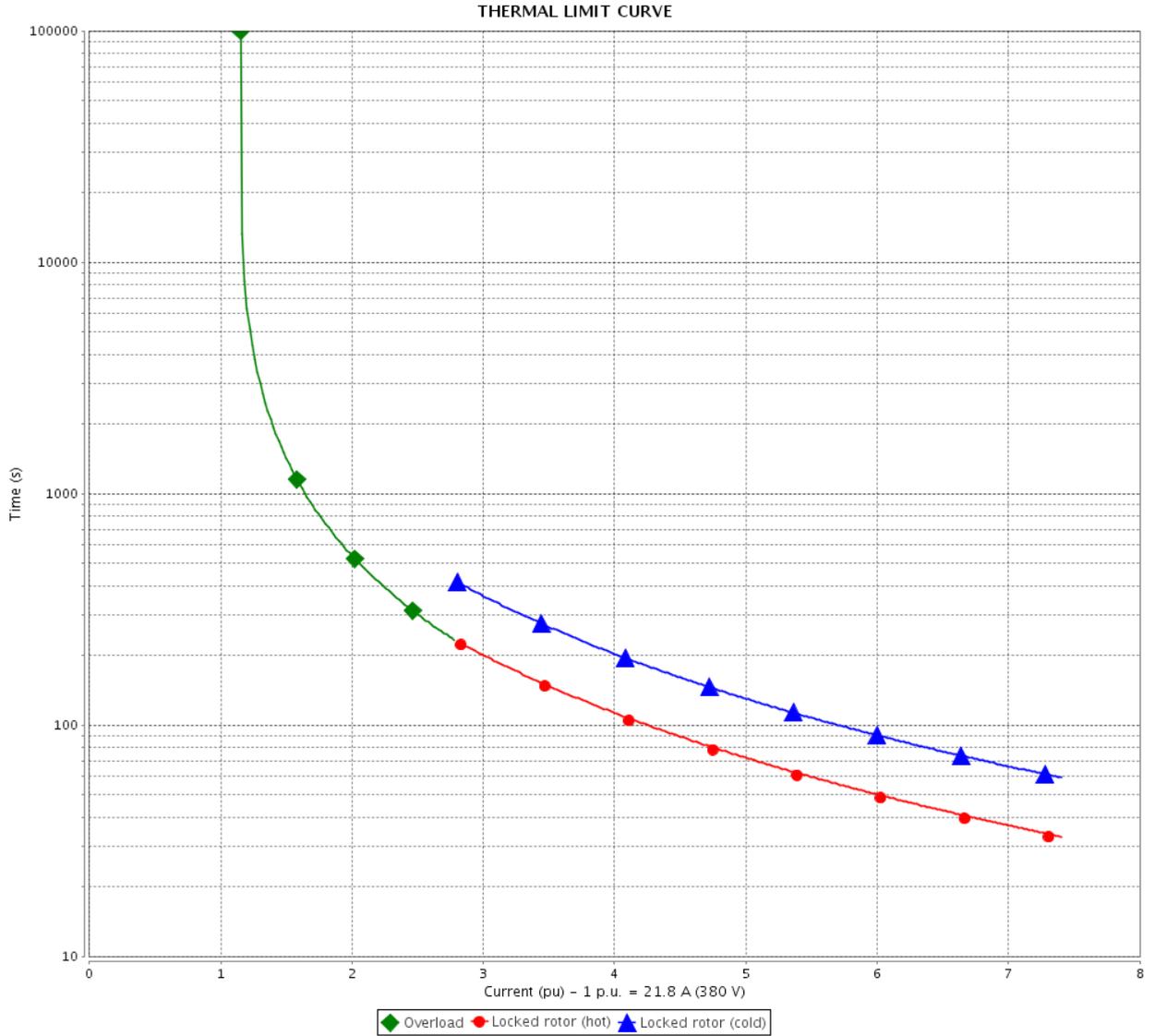
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THERMAL LIMIT CURVE

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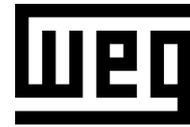


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Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

Heating constant

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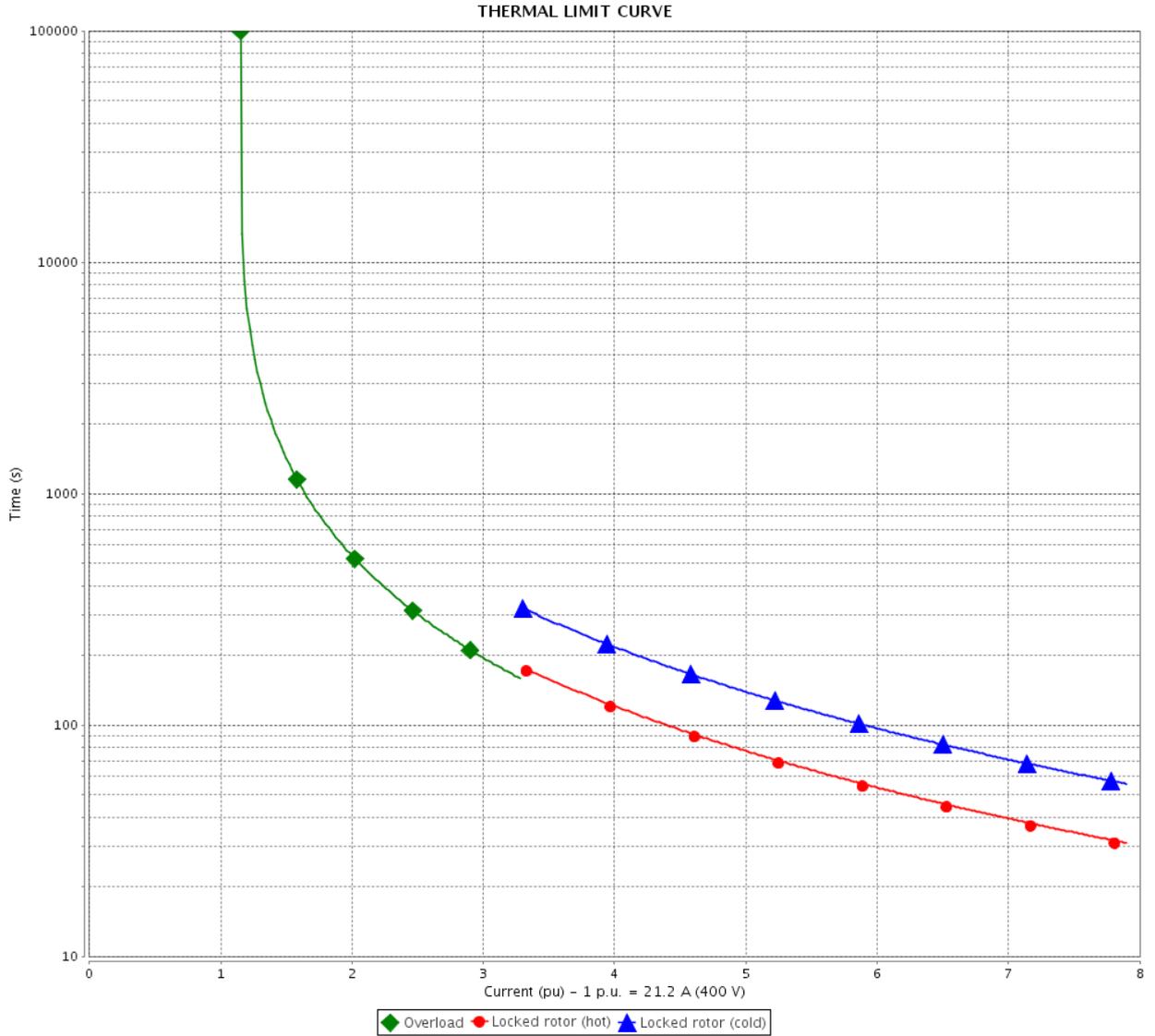
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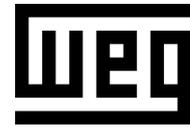


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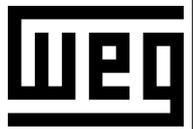
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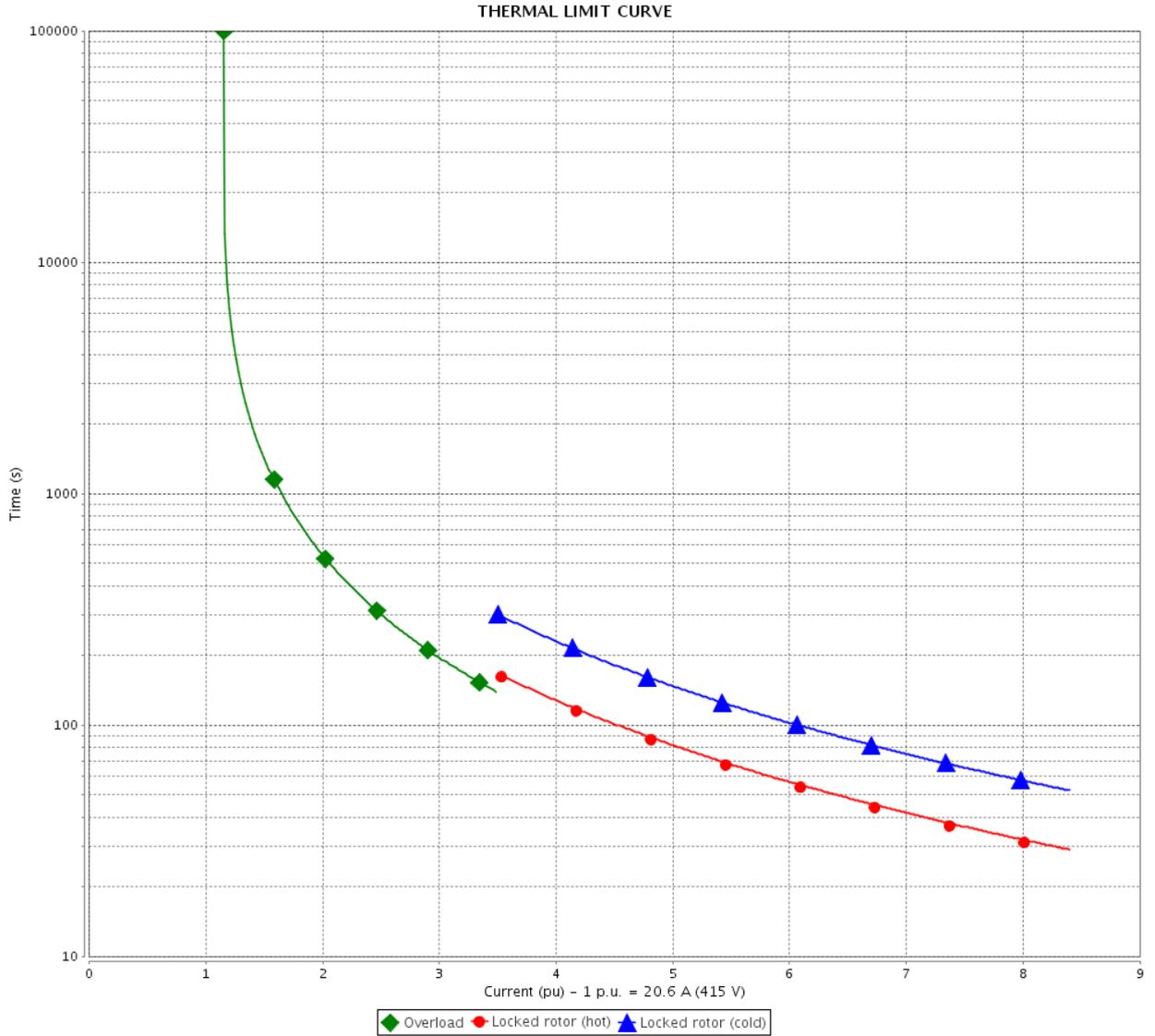
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Date	22/03/2021		22 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



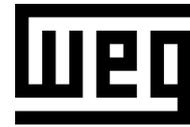
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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 23 / 36		Revision
Checked by				
Date				

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22

Performance : 380 V 50 Hz 4P IE1

Rated current	: 29.4 A	Moment of inertia (J)	: 0.1305 kgm ²
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 9.98 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 1455 rpm	Design	: B

Heating constant

Cooling constant

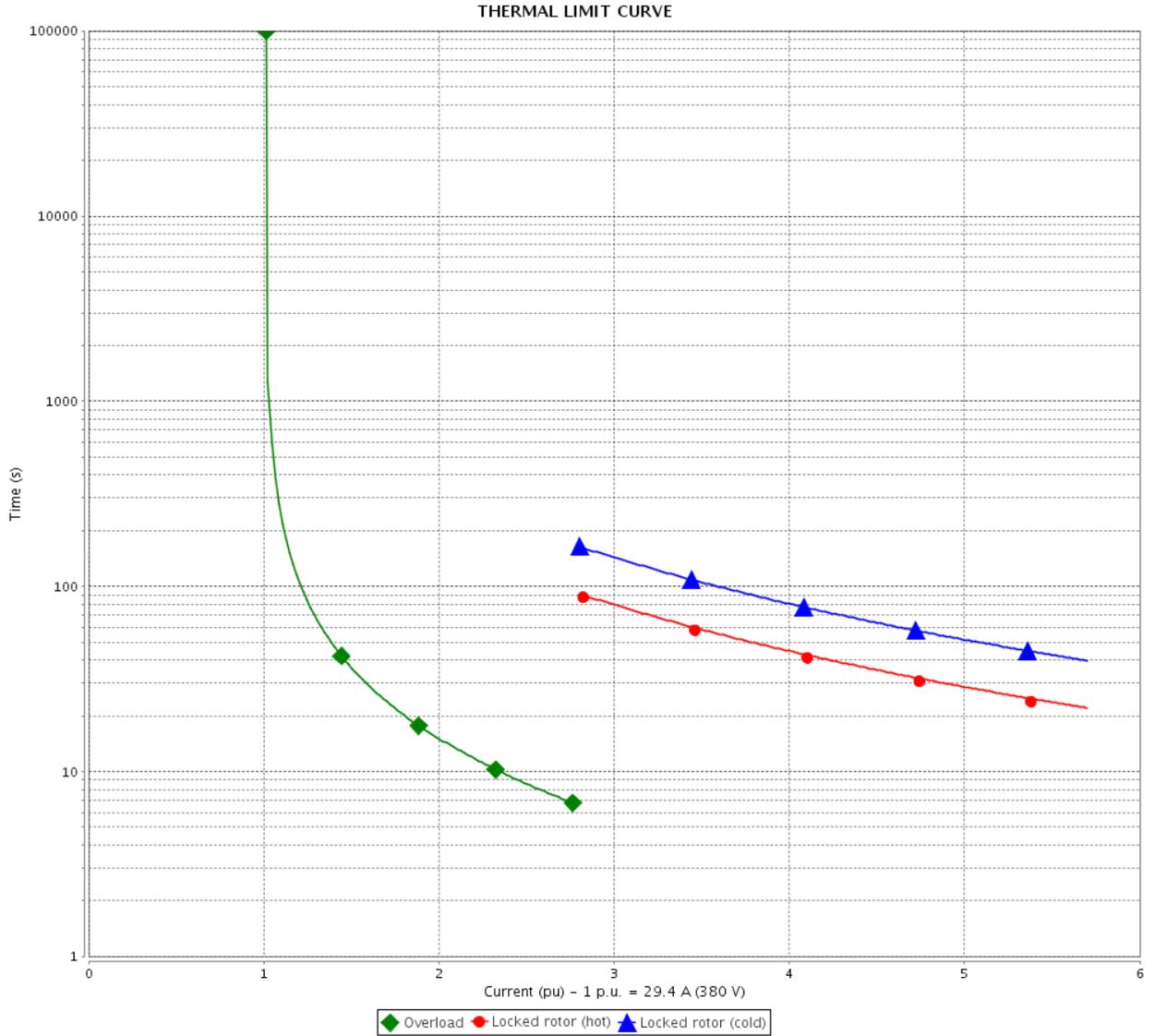
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

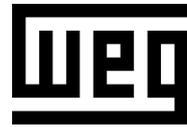


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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision 25 / 36		
Checked by				
Date				

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22

Performance : 400 V 50 Hz 4P IE2

Rated current	: 28.0 A	Moment of inertia (J)	: 0.1305 kgm ²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 9.94 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 1460 rpm	Design	: B

Heating constant

Cooling constant

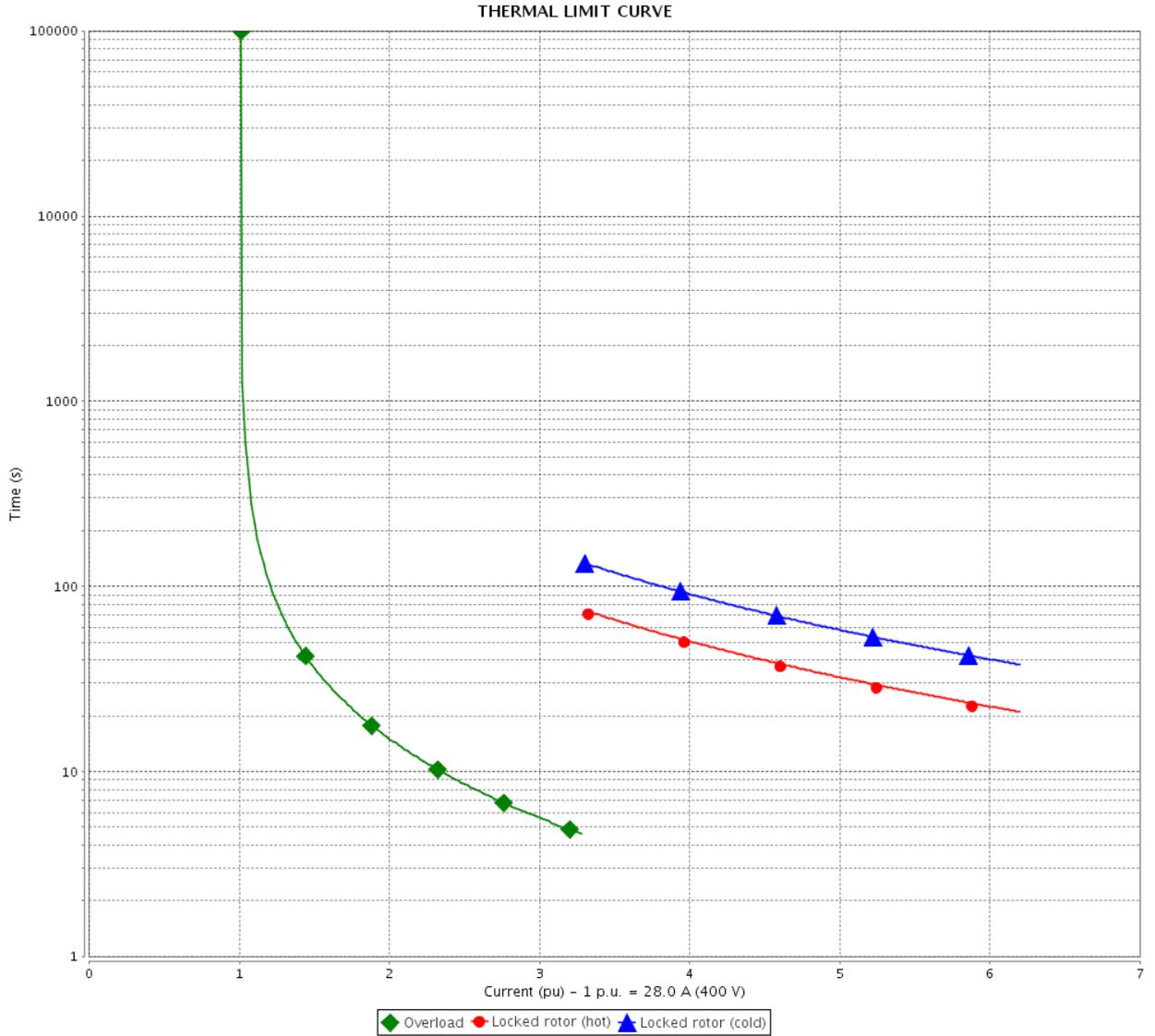
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



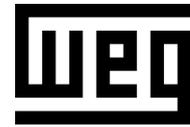
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Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date				
			Page	Revision
			27 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22

Performance : 415 V 50 Hz 4P IE2

Rated current	: 27.1 A	Moment of inertia (J)	: 0.1305 kgm ²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 9.91 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 1465 rpm	Design	: B

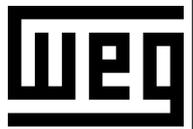
Heating constant

Cooling constant

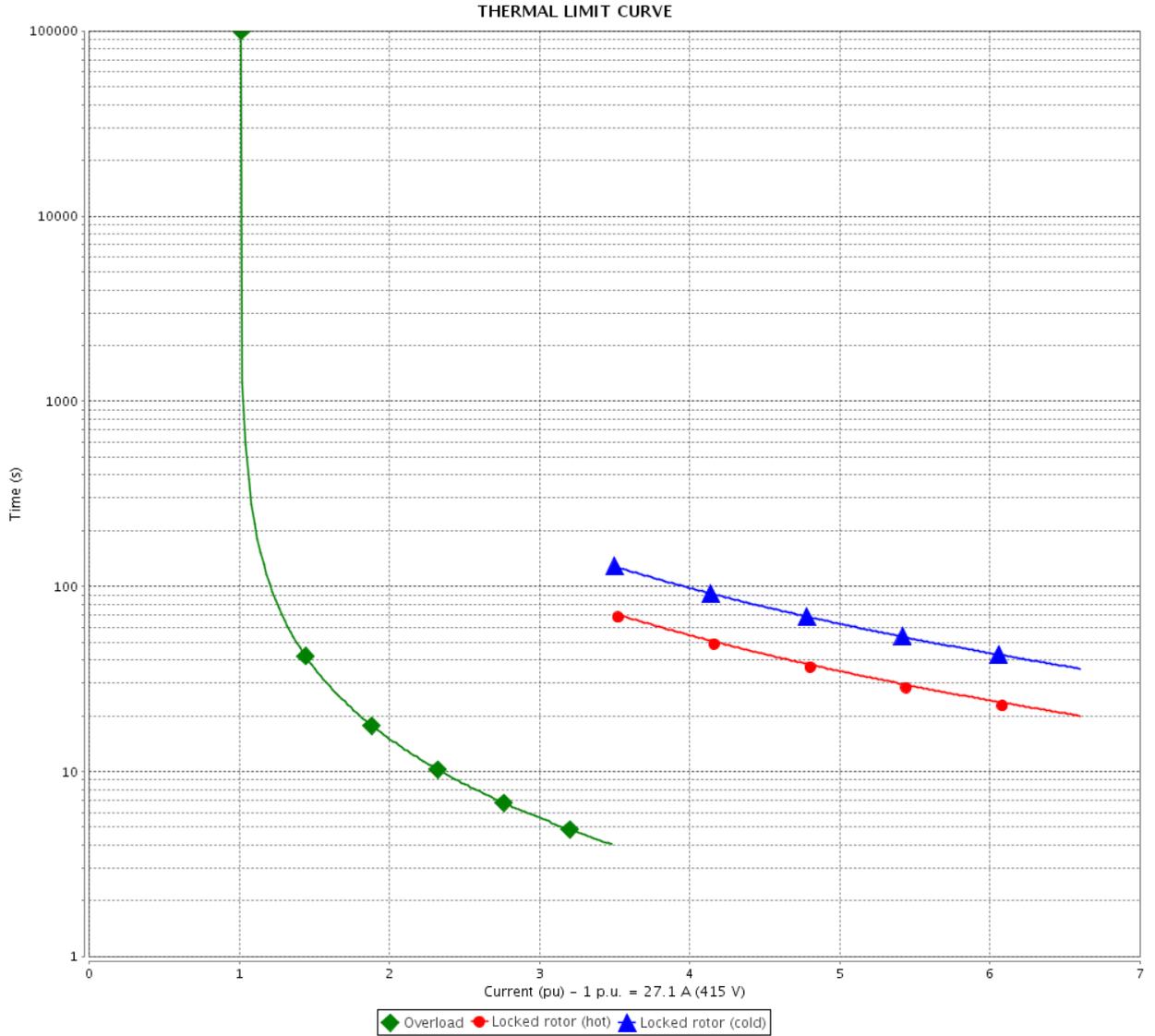
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



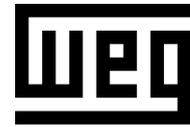
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Rev.	Changes Summary	Performed	Checked	Date
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

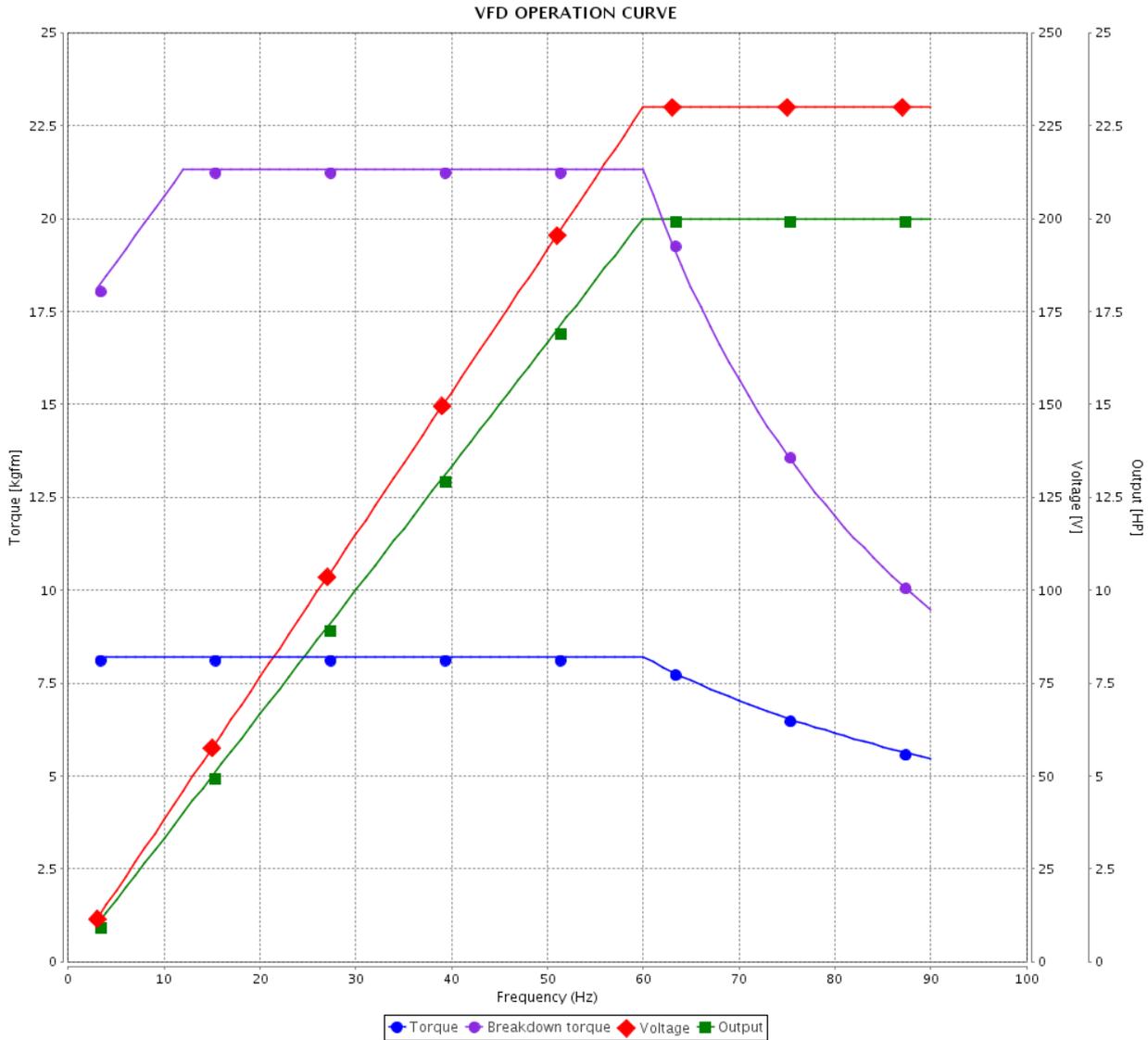


Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 230/460 V 60 Hz 4P

Rated current : 48.2/24.1 A
 LRC : 6.9
 Rated torque : 8.20 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 280 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.1305 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Performed by			Page 30 / 36	Revision
Checked by				
Date	22/03/2021			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

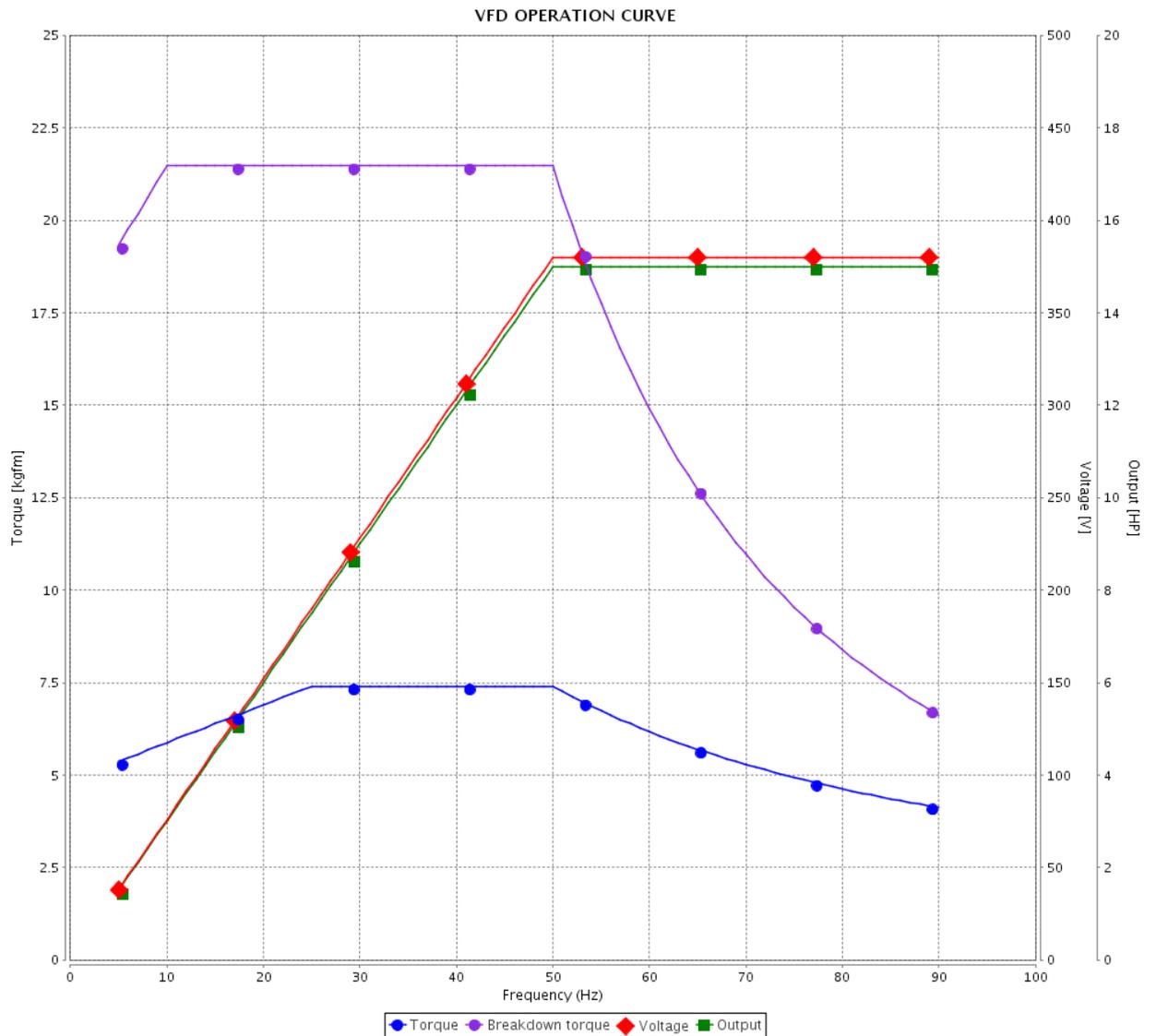


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 380 V 50 Hz 4P IE3

Rated current : 21.8 A
LRC : 7.4
Rated torque : 7.41 kgfm
Locked rotor torque : 250 %
Breakdown torque : 310 %
Rated speed : 1470 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
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Date	22/03/2021			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

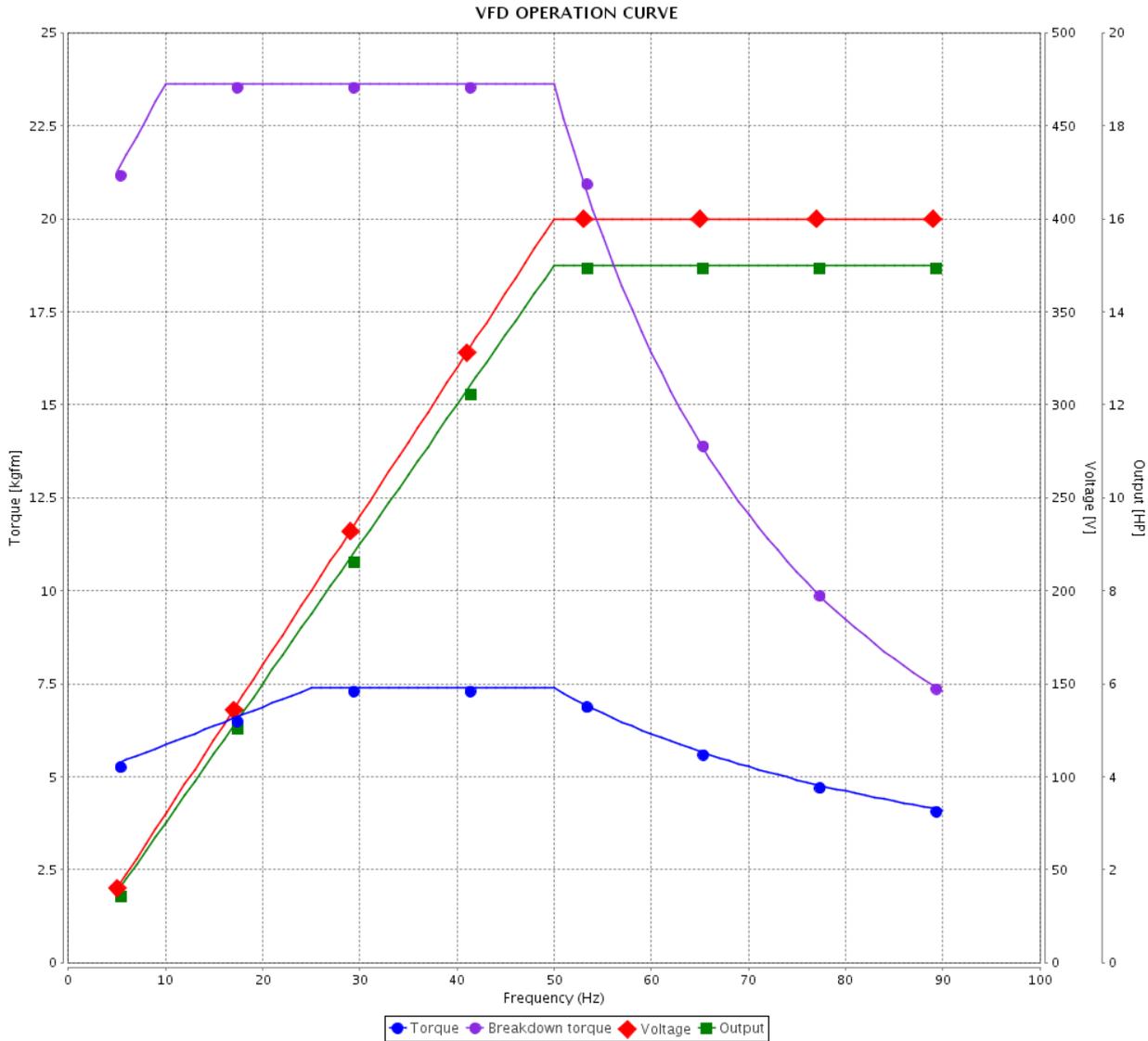


Customer : _____

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 400 V 50 Hz 4P IE3

Rated current : 21.2 A
 LRC : 7.9
 Rated torque : 7.38 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 350 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.1305 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 32 / 36	Revision
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

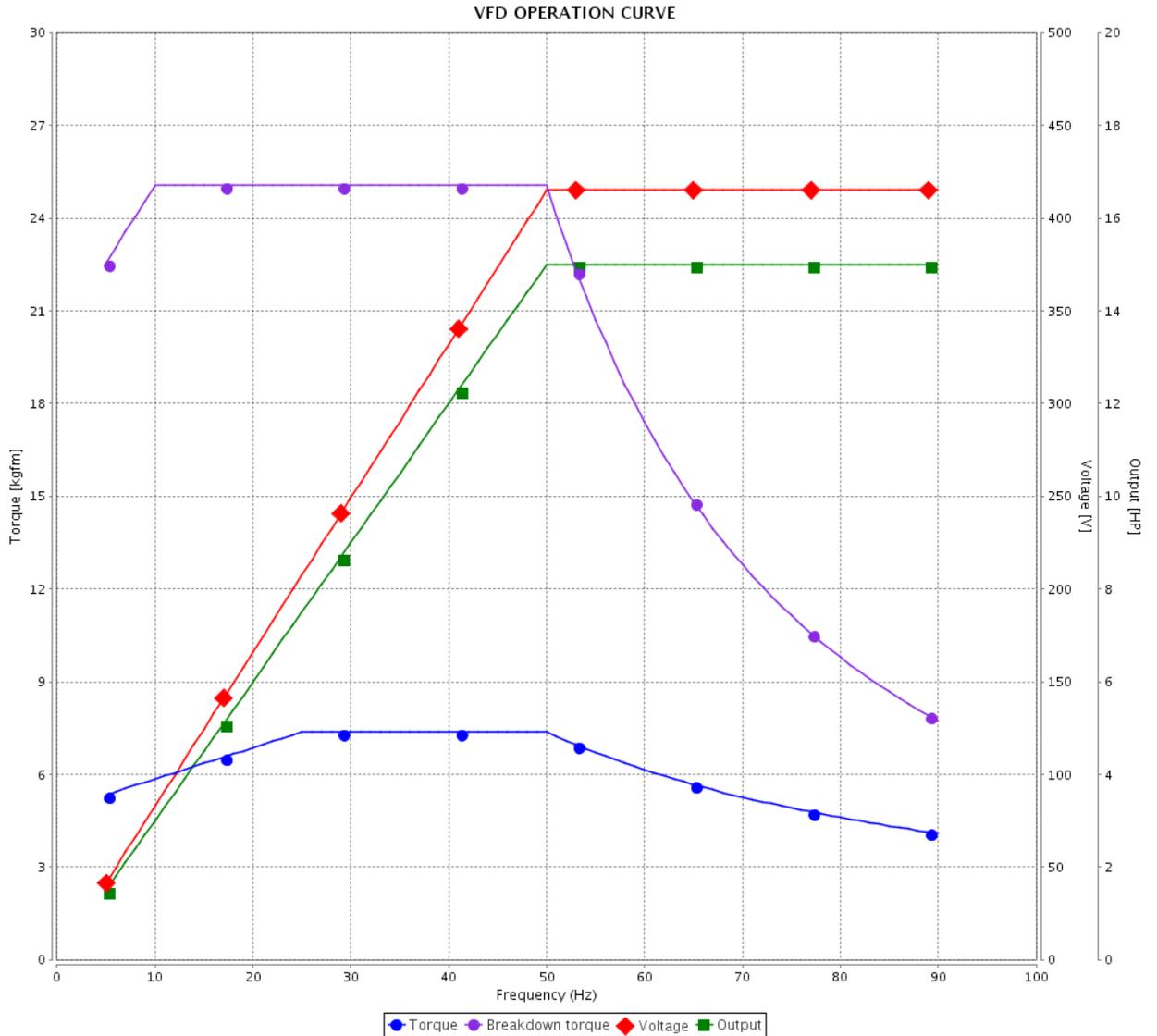


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 415 V 50 Hz 4P IE3

Rated current : 20.6 A
LRC : 8.4
Rated torque : 7.37 kgfm
Locked rotor torque : 300 %
Breakdown torque : 370 %
Rated speed : 1477 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		33 / 36		
Date	22/03/2021			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

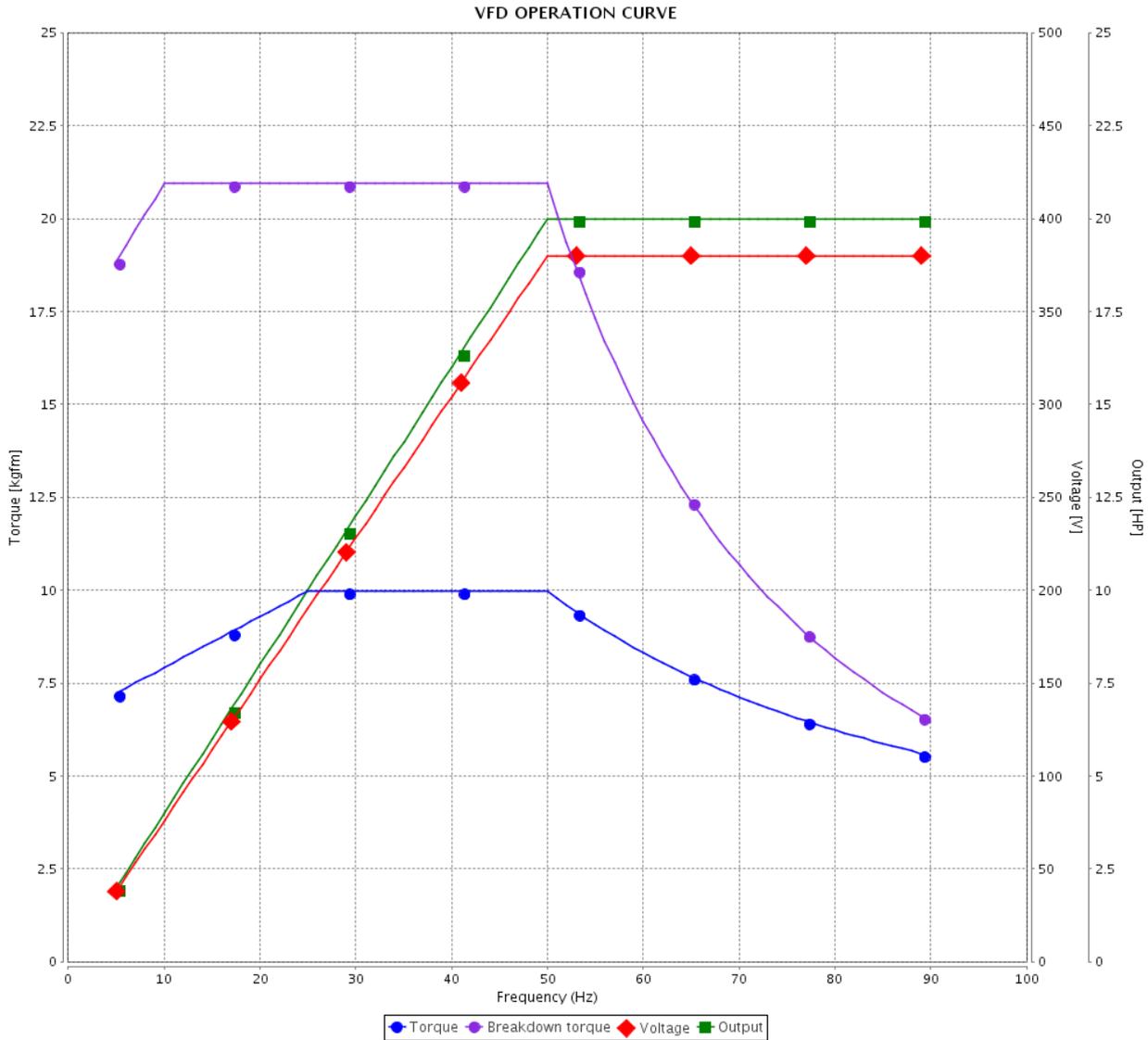


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 380 V 50 Hz 4P IE1

Rated current : 29.4 A
 LRC : 5.7
 Rated torque : 9.98 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 220 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.1305 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 34 / 36	Revision
Checked by				
Date	22/03/2021			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

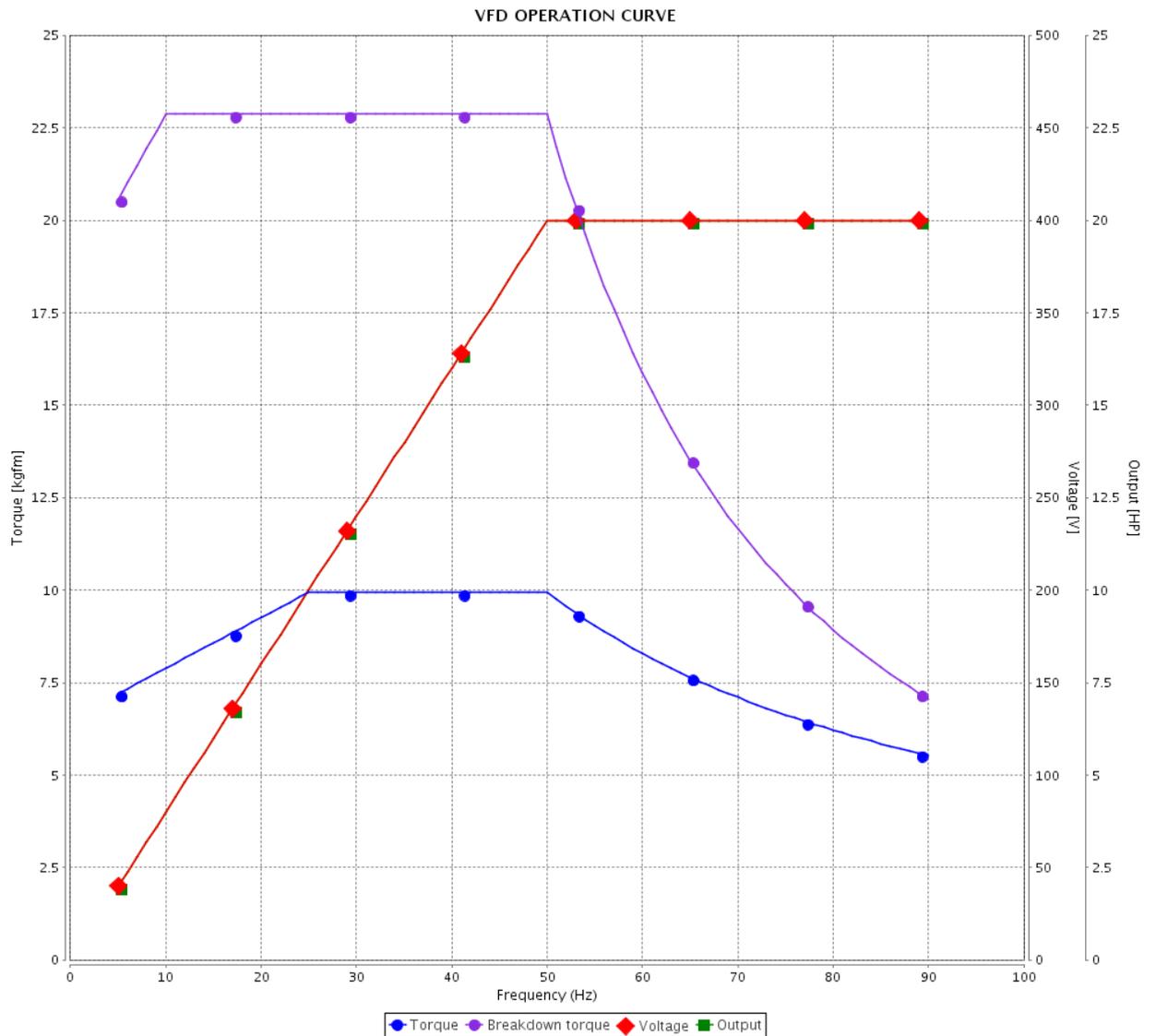


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 400 V 50 Hz 4P IE2

Rated current : 28.0 A
 LRC : 6.2
 Rated torque : 9.94 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.1305 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

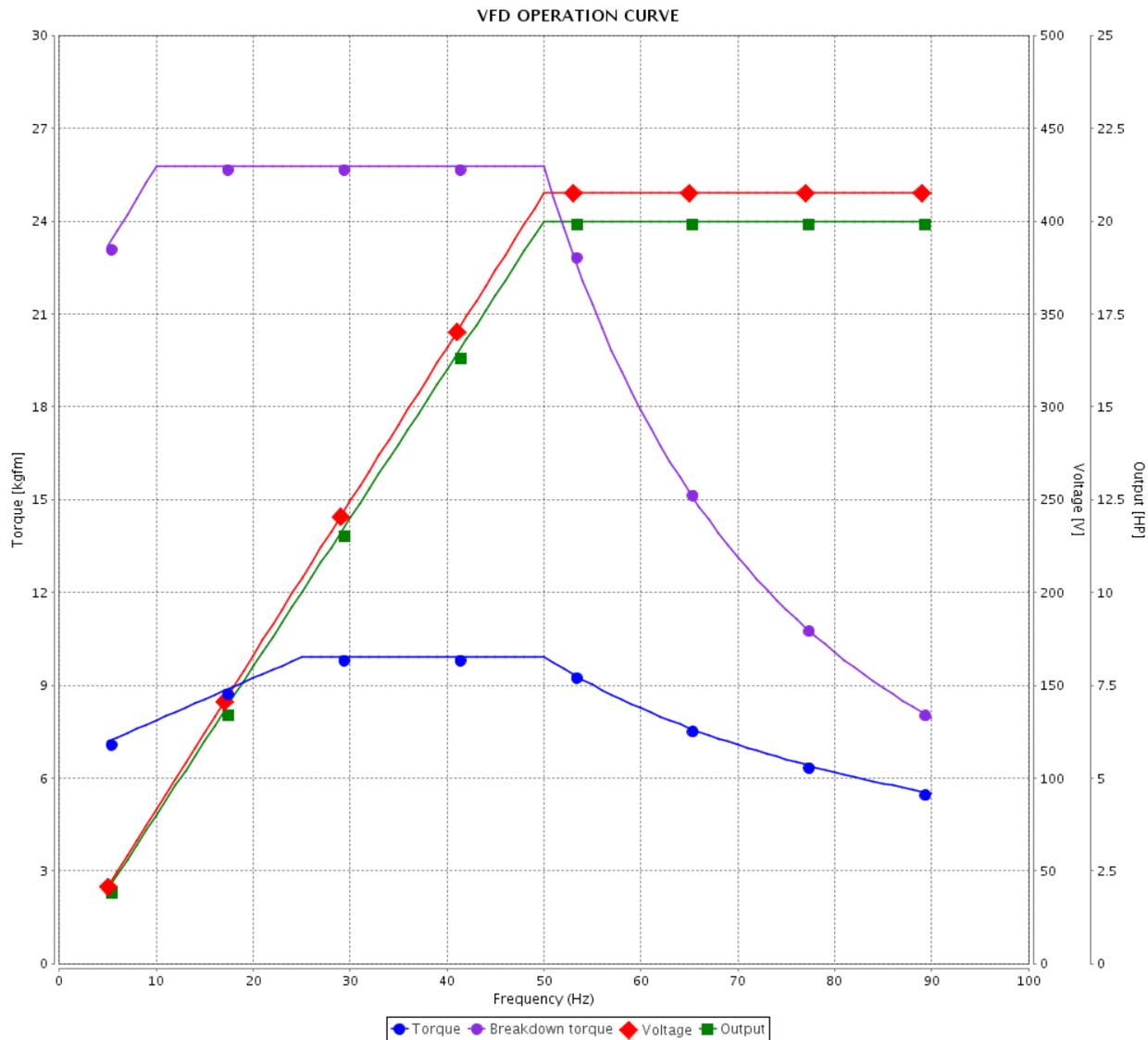


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11438008

Catalog # : 02018ET3E256T-W22



Performance : 415 V 50 Hz 4P IE2

Rated current : 27.1 A
LRC : 6.6
Rated torque : 9.91 kgfm
Locked rotor torque : 229 %
Breakdown torque : 270 %
Rated speed : 1465 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

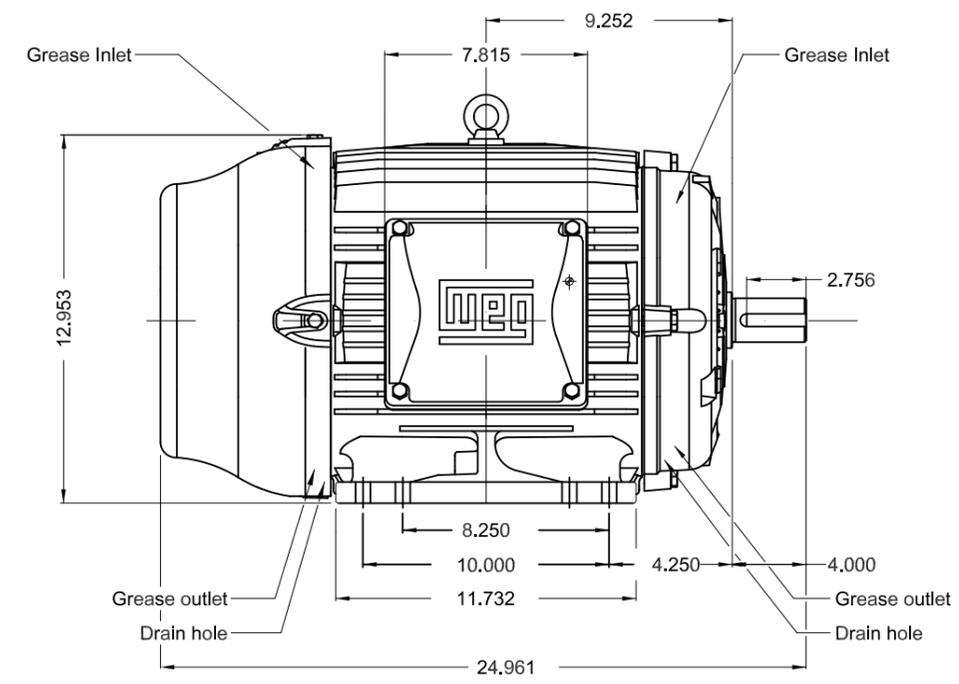
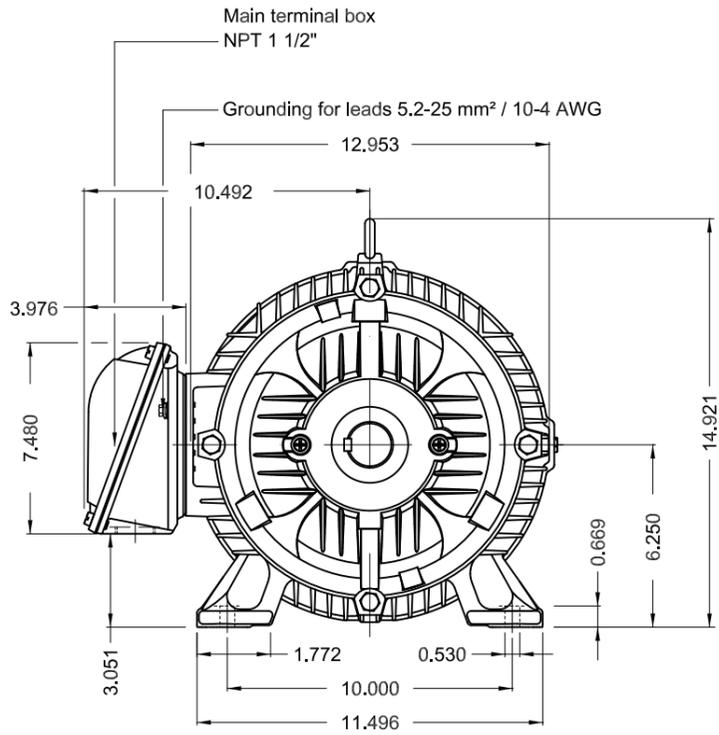
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Performed by			Page 36 / 36	Revision
Checked by				
Date	22/03/2021			

1 2 3 4 5 6

A

B

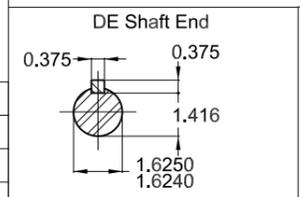
C



D

E

Without vertical jackscrews
 Color RAL 5009
 Painting plan 203A
 Mounting B3R(D)



20 HP 04 Poles 60Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PHASE W22 MOTOR - NEMA PREMIUM EFF FRAME 254/6T IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO		Jaragua do Sul	Product Engineering	SHEET	1 / 1	

PREVIEW

WDD

Dimensions in inches XME A3



Inverter Duty Motor
Severe Duty



FOR SAFE AREA
MOD.TE1BFOXON



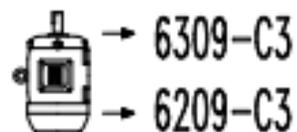
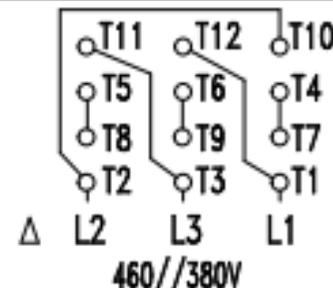
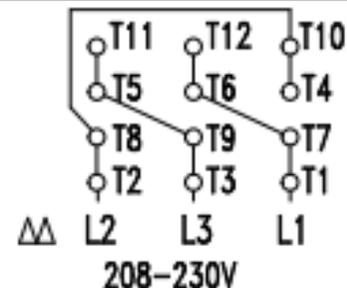
For 60Hz: Class I, Div 2, Gr. A, B, C and D - T3
Class I, Zone 2, IIC - T3

Class II, Div 2, Gr. F and G - T4

For 60Hz use on PWM, Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.0SF, T3A

MODEL 02018ET3E256T-W22
MADE IN MEXICO
11438008

PH 3	FR 254/6T	HP(kW) 20.0(15.0)	Hz 60
V 230/460	A 48.2/24.1	RPM 1765	DES B
NEMA NOM EFF 93.0 %	INS. CL. F Δ T 80 K	IP55	
ENCL TEFC	DUTY CONT.	AMB. 40°C	
CODE H	PF 0.84	SF 1.25	SFA 60.3/30.1
USABLE @208V 53.3 A	SF 1.15	SFA 61.3	
20HP 15kW 50Hz 380V 29.4A 1455RPM SF1.00 EFF 90.2% (IE1)	ALT 1000 m.a.s.l.	375 Lbs	



MOBIL POLYREX EM
13 g 20000 h